



BRITT B #020
nGRL0835160441

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

Proposed Sampling and Remediation Work Plan

July 29, 2025



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

Bureau of Land Management
 620 East Green St.
 Carlsbad, NM 88210

Re: Proposed Sampling and Remediation Work Plan
 NMOCD Incident Number: **nGRL0835160441**
 Britt B #020 API No. 30-025-20299
 Unit L, Section 10, Township 20S, Range 37E 1880 FSL 330 FWL Lea County, NM
 GPS Coordinates: Latitude 32.5855293 Longitude -103.2468491 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 Britt B #020 (Site). This incident was assigned Incident ID nGRL0835160441 by the New Mexico Oil Conservation Division (NMOCD).

Release Information - nGRL0835160441

The initial Form C-141 was submitted on October 29, 2008 (Appendix A) and stated that "Tank overfill & high level alarm failure. Storage tank is by-passed while operations group investigates cause of alarm failure. Tank will be put back in service once problem is identified & fixed. The area inside the tank dike & north of tank. The area north of the tank had a light oil cover due to wind blowing oil from top of tank. Free product was vacuumed. Contaminated soil was excavated & placed on plastic. Samples were taken. Soil will be removed depending on lab analysis." This initial Form C-141 was approved by the NMOCD on December 12, 2008.

Site Characterization

This Site is in Lea County, NM, approximately three (3) miles southeast of Monument, NM. The wellhead is in Unit L, Section 10, Township 20S, Range 37E, at 32.5855293 degrees latitude and -103.2468491 degrees longitude. The release area, however, is located at 32.583624 degrees latitude and -103.247552 degrees longitude which is approximately 625 feet south of the wellhead. 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 Eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. A Geologic Unit Map can be found in Appendix C.

The soil type present at the Site is Kermit soils and Dune land, 0 to 12 percent slopes. The drainage class is excessively 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 31.63 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 30 feet below grade surface (bgs). This information is recorded by L-10150 which is situated approximately 0.42 miles away from the Site. This information is from 1991. The United States Geological Survey (USGS) offers the site USGS 323529103145701 20S.37E.04.44411 which shows depth to the nearest groundwater is 20 feet bgs. The latest gauge of this site was conducted in 1967, and it is located approximately 0.53 miles from the Site.

The nearest surface water feature is the Hobbs Country Club Pond, and it is located approximately 7.99 miles to the north. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Emergent Wetland approximately 1.1 miles northeast. 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 habitats. However, the Site does lie within the Isolated Population Area of the Lesser Prairie Chicken Habitat and the Dunes Sage Brush Lizard Habitat. Any work taking place at this location between March 1 and June 15 will strictly adhere to the timing restrictions outlined in the Special Status Species Resource Management Plan Amendment. A Special Status Plant/Wildlife Map is included in Figure 2.

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

Assessment and Delineation Activities

Documentation could not be found for the remediation activities described in the Initial Form C-141.

Proposed Sampling & Remediation Activities

Maverick would like to propose the following:

- The area of concern measures approximately 2,799 square feet and is entirely on the pad surface within and outside the facility's perimeter fence.
- Permission needs to be obtained from Holly Energy Partners to enter the site and perform assessment activities.
- Once authorized, collect discrete samples from within and around the edges of the release area to evaluate the presence of contaminants. Twenty-five (25) samples will be collected from 5 different sample points within the release area from depths of surface, 1', 2', 3', and 4' bgs. Thirty (30) samples will be collected from 6 different sample points around the edges of the release area from depths of surface, 1', 2', 3', and 4' bgs.
- All samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories where they will be analyzed for all the constituents listed in Table 1 19.15.29.12 NMAC.
- A 48-hour sampling notification will be issued to the NMOCD for these sampling events. A variance request is included below for permission to use the delineation samples as confirmation samples depending on the sample results of the soil. A Proposed Sample Map referencing the release area and the previously remediated area 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 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 nGRL0835160441 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 – (928) 241-1862

Sapec-Eco, LLC – Tom Bynum – 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



Figures:

Proposed Sample Map

Special Status Plant/Wildlife Map

Karst Map

Topographic Map

Location Map

Britt B #020

Maverick Permian
API #30-025-20299
Lea County, NM
nGRL0835160441
Proposed Sample Map

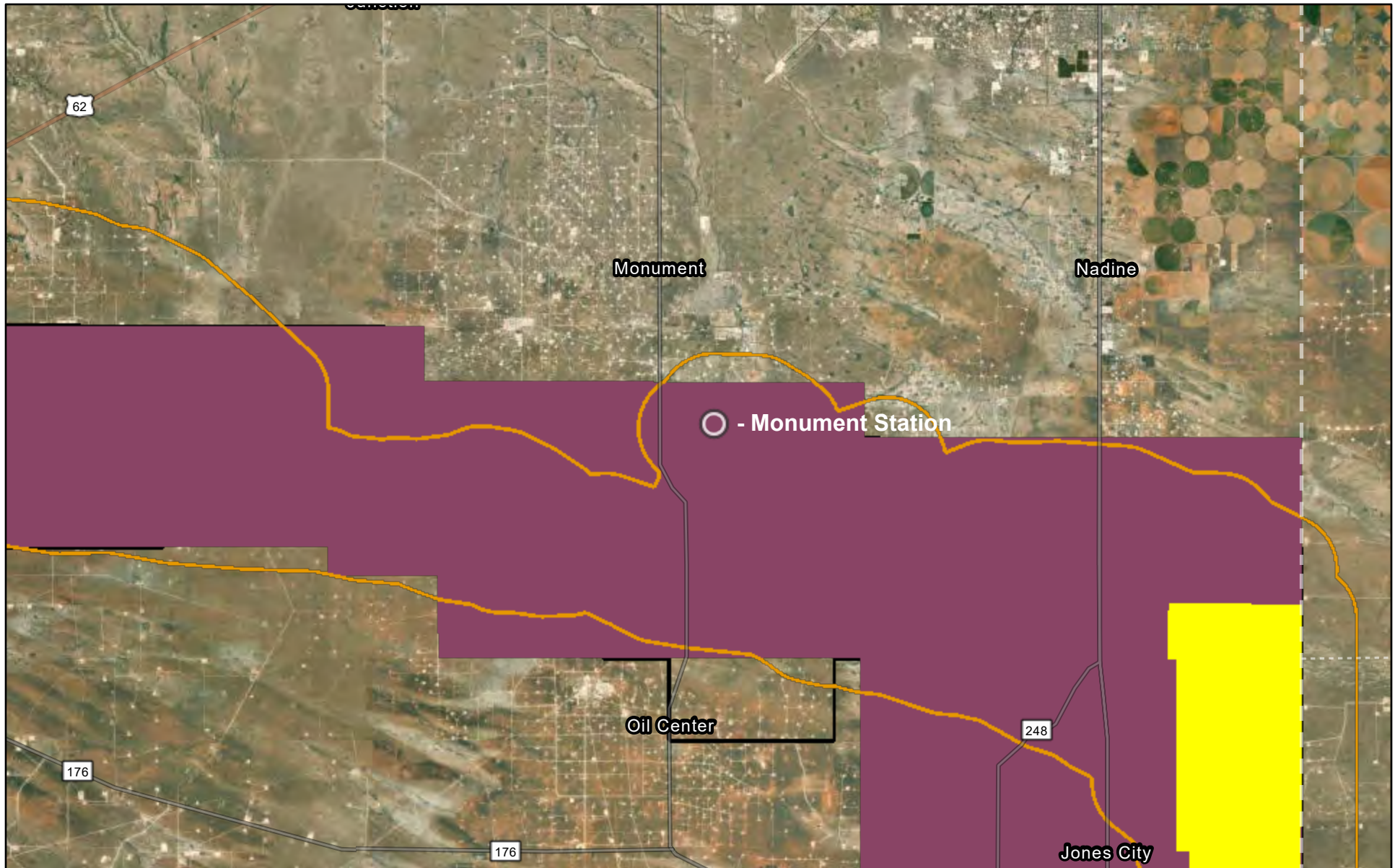
Legend

- Proposed horizontal samples
- Proposed vertical samples
- Release area - 2,799 sqft



Google Earth

Special Status Plant/Wildlife Map



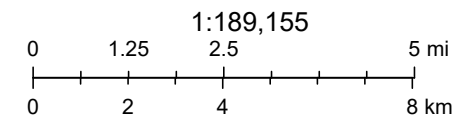
5/29/2025

- | | |
|---------------------------------|------------------------------|
| Dunes Sage Brush Lizard Habitat | Lesser Prairie Chicken TR |
| Lesser Prairie Chicken Habitat | World Imagery |
| Habitat Evaluation Area | Low Resolution 15m Imagery |
| Isolated Population Area | 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,

Britt B #020

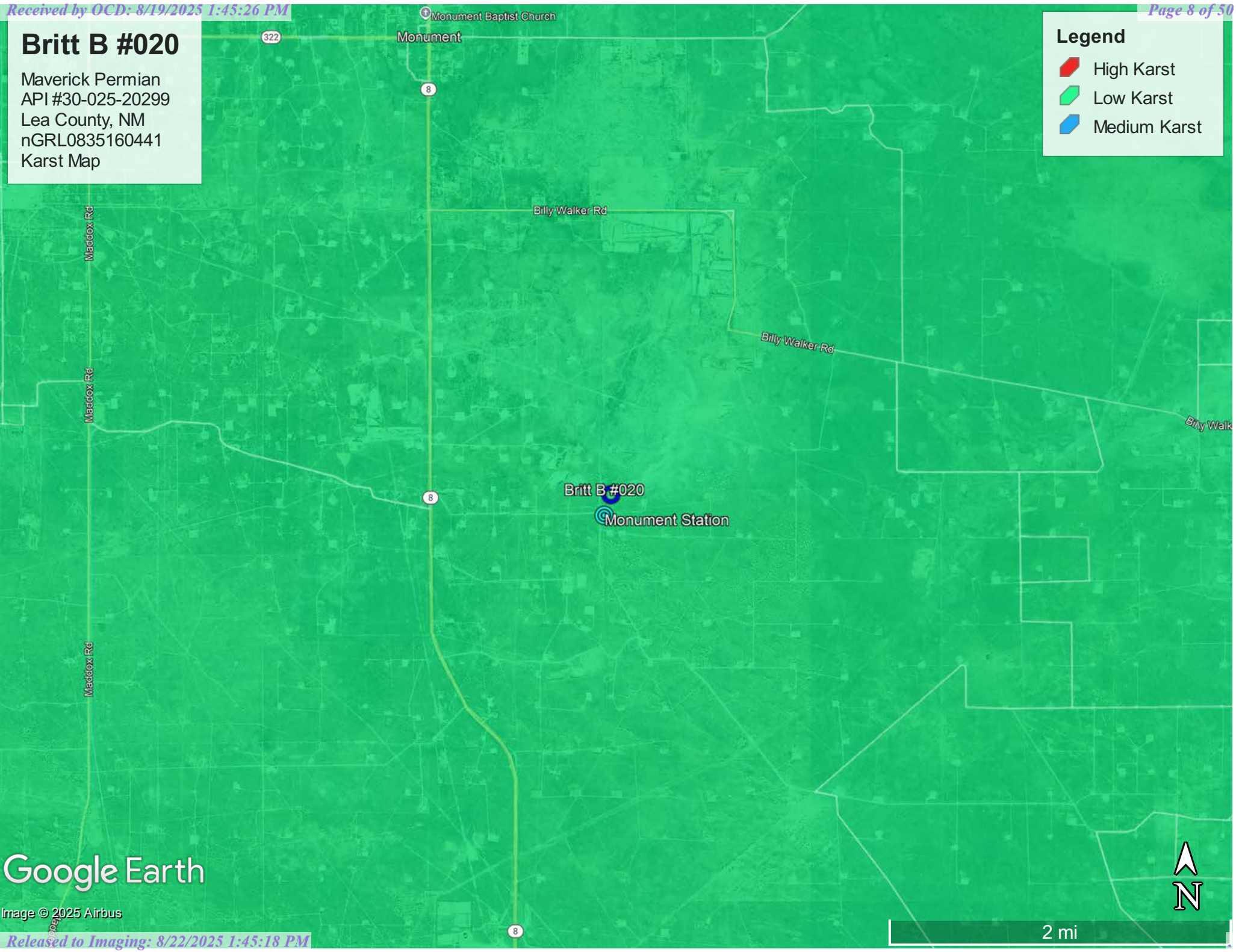
Maverick Permian
API #30-025-20299
Lea County, NM
nGRL0835160441
Karst Map

Legend

High Karst

Low Karst

Medium Karst



Google Earth

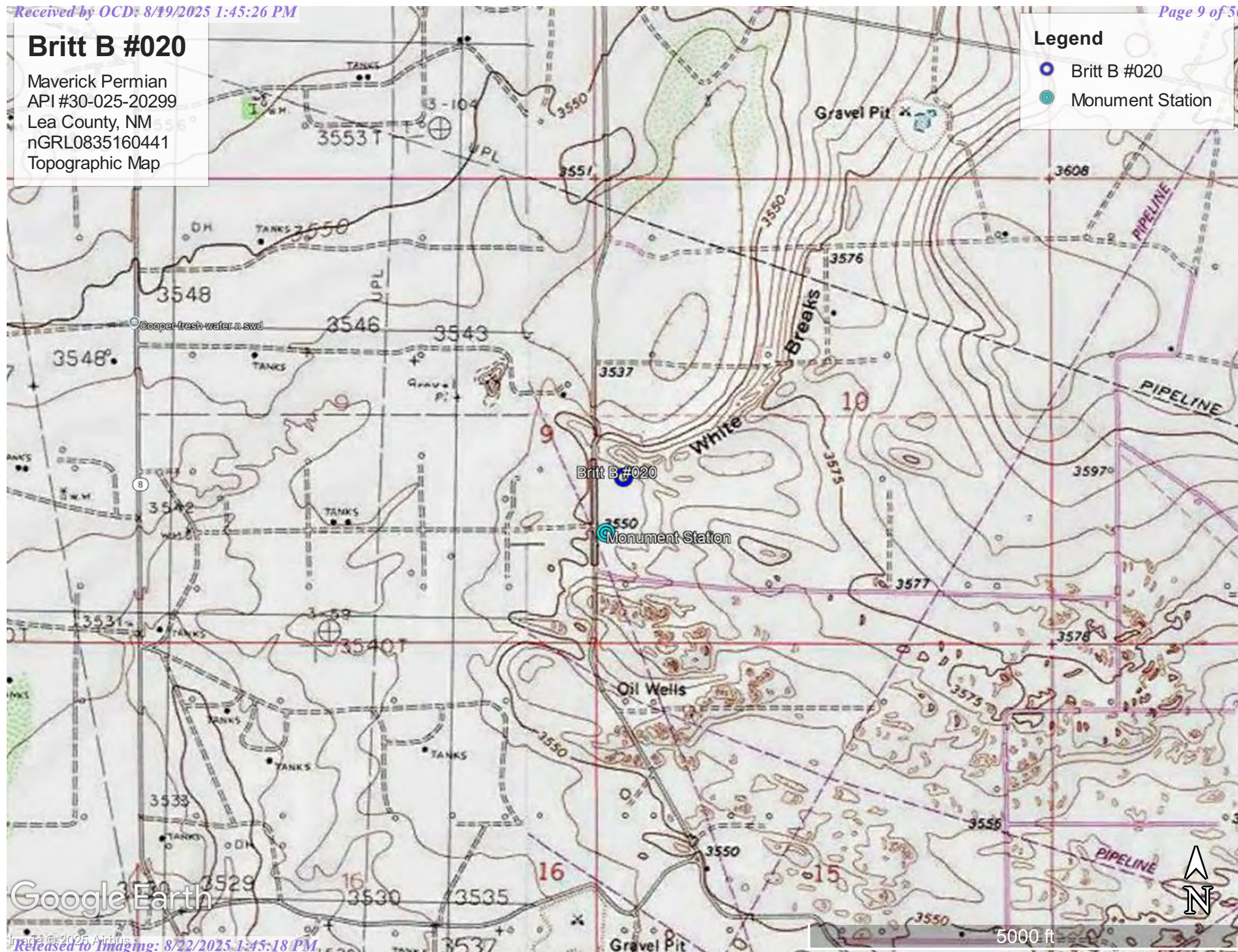
Image © 2025 Airbus

Britt B #020

Maverick Permian
API #30-025-20299
Lea County, NM
nGRL0835160441
Topographic Map

Legend

- Britt B #020
- Monument Station

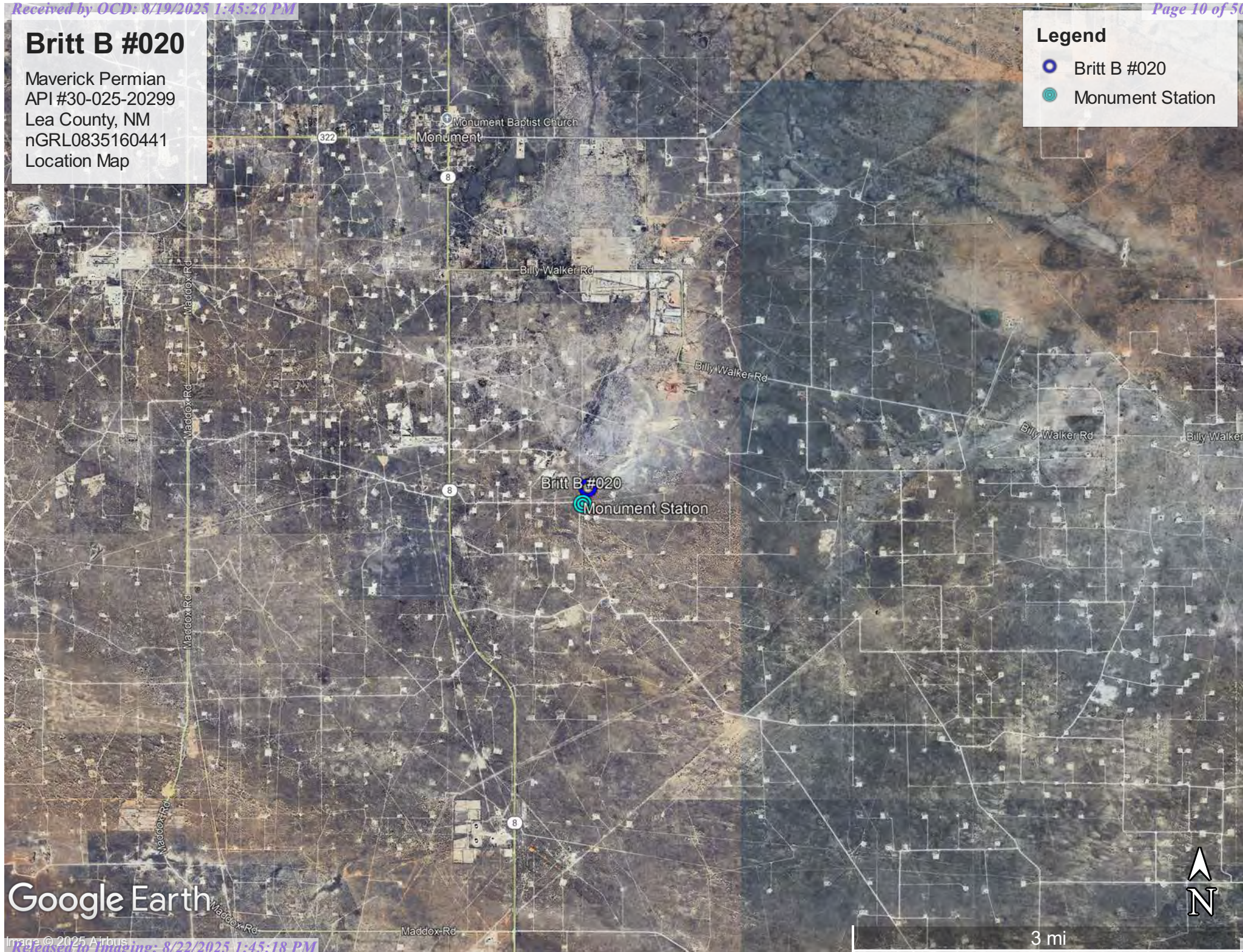


Britt B #020

Maverick Permian
API #30-025-20299
Lea County, NM
nGRL0835160441
Location Map

Legend

- Britt B #020
- Monument Station



Google Earth



Appendix A

Initial Form C-141

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

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

Release Notification and Corrective Action

Name of Company <u>Holly Energy Partners</u>		Contact <u>Dickie Townley</u>	<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Address <u>P.O. Box 1260</u>		Telephone No. <u>575-748-8949</u>	
Facility Name <u>Monument Station</u>		Facility Type <u>Crude Storage</u>	
Surface Owner <u>Holly Energy Partners</u>	Mineral Owner <u>??</u>	Lease No. <u>N/A</u>	

LOCATION OF RELEASE							
Unit Letter <u>L</u>	Section <u>10</u>	Township <u>20S</u>	Range <u>37E</u>	Feet from the	North/South Line	Feet from the	East/West Line
				County <u>Lea</u>			

Latitude 32.58403 N Longitude 103.24777 W

10-29-08

10-29-08

NATURE OF RELEASE	
Type of Release <u>liquid / Crude Oil</u>	Volume of Release <u>25</u> / <u>Midnight to 8:00AM</u> / <u>8:30AM</u>
Source of Release	Date and Hour of Occurrence
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Buddy Hill (District I)</u>
By Whom? <u>Dickie Townley</u>	Date and Hour <u>10-29-08 @ 3:05 PM</u>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <u>N/A</u>

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* Tank overfill & high level alarm failure. Storage tank is bypassed while operations group investigates cause of alarm failure. Tank will be put back in service once problem is identified & fixed.

Describe Area Affected and Cleanup Action Taken.* The area inside the tank dike & north of tank. The area north of the tank had a light oil cover due to wind blowing oil from top of tank. Free product was vacuumed. Contaminated soil was excavated & placed on plastic. Samples were taken. Soil will be removed depending on lab analysis.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: <u>Richard L. Townley</u>	OIL CONSERVATION DIVISION <u>Johnson</u>	
Printed Name: <u>Richard L. Townley</u>	Approved by District Supervisor ENVIRONMENTAL ENGINEER.	
Title: <u>Manager of Environmental Health & Safety</u>	Approval Date: <u>12.12.08</u>	Expiration Date: <u>2.12.09</u>
E-mail Address: <u>dickie.townley@hollyenergy.com</u>	Conditions of Approval:	
Date: <u>10-29-2008</u> Phone: <u>575-748-8949</u>	SUBMIT FINAL C-141 w/ DOCUMENTATION Attached <input type="checkbox"/> IRP# <u>2027</u>	

* Attach Additional Sheets If Necessary

↑
INCLUDE # ON ALL
SUBMITTALS PERTAINING
TO THIS INCIDENT

FILED 835150285

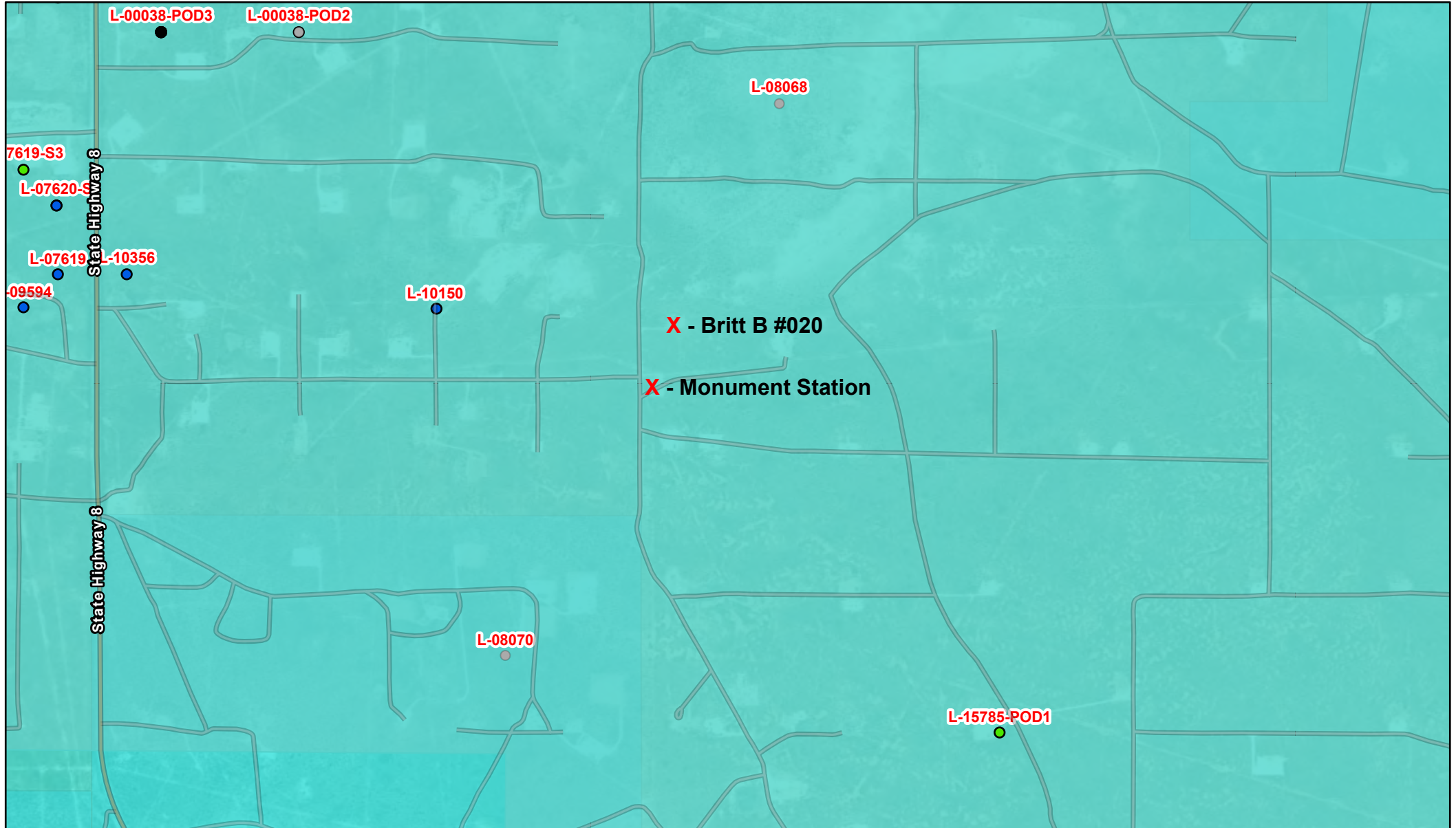


Appendix B

Water Surveys

Water-Related Maps

OSE POD Location Map



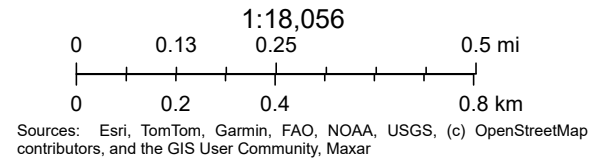
5/29/2025, 1:14:50 PM

GIS WATERS PODs

- Active
- Pending
- Inactive

- OSE District Boundary
- Water Right Regulations
- Critical Management Area - Guidelines


- Closure Area
- Artesian Plan Area
- New Mexico State Trust Lands
- Both Estates



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	Y	Map
	L 10150		NW	SE	09	20S	37E	663842.0	3606715.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	982	Driller Company:	EADES, GENE		
Driller Name:	EADES, GENE				
Drill Start Date:	1990-11-19	Drill Finish Date:	1990-11-19	Plug Date:	
Log File Date:	1991-06-20	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	35
Casing Size:	5.75	Depth Well:	46	Depth Water:	30

Water Bearing Stratifications:

Top	Bottom	Description
30	46	Other/Unknown

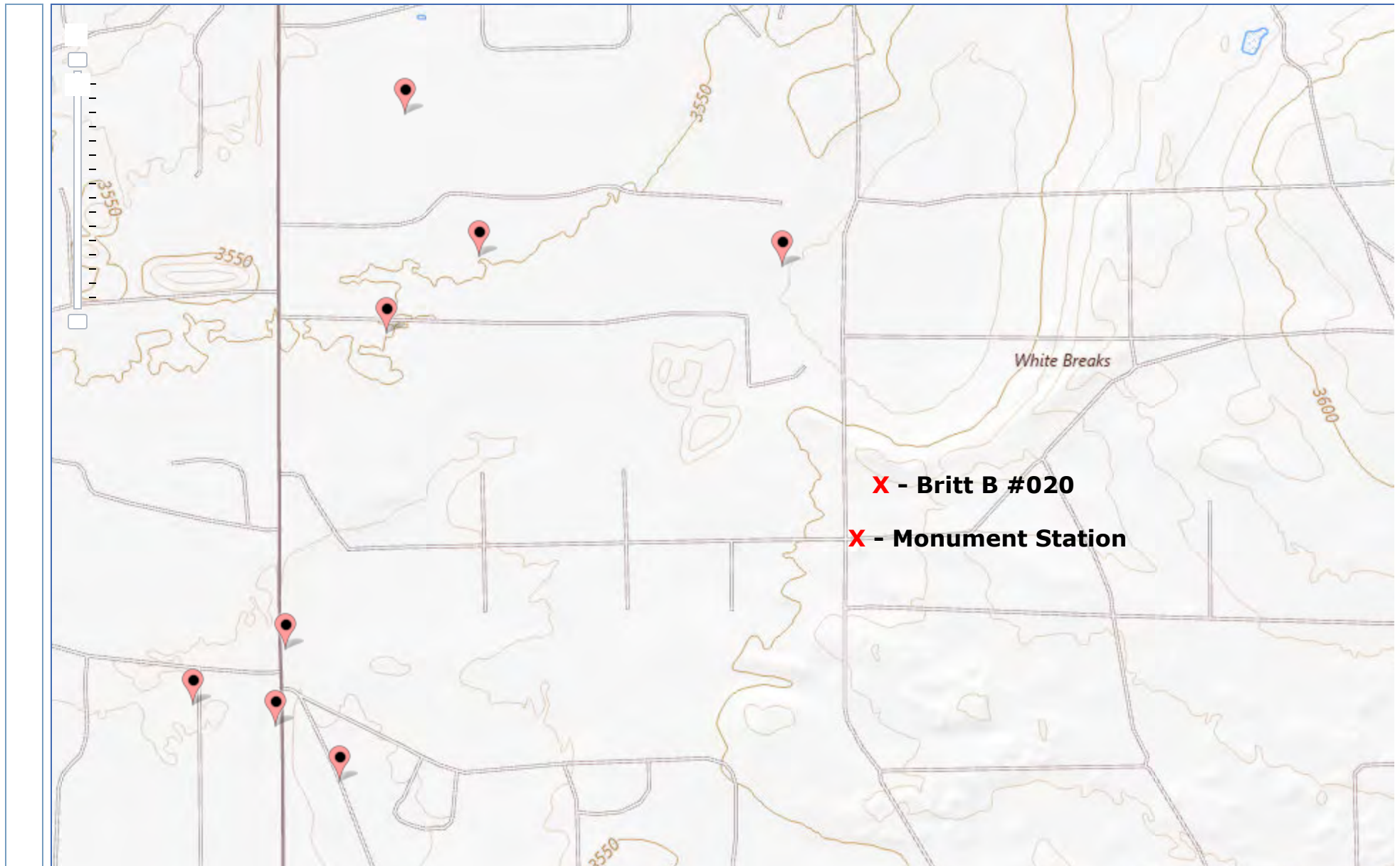
Casing Perforations:

Top	Bottom
26	46

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.



National Water Information System: Mapper





[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 =

- 323529103145701

Minimum number of levels = 1

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

USGS 323529103145701 20S.37E.04.44411

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°35'29", Longitude 103°14'57" NAD27

Land-surface elevation 3,542 feet above NAVD88

The depth of the well is 30 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

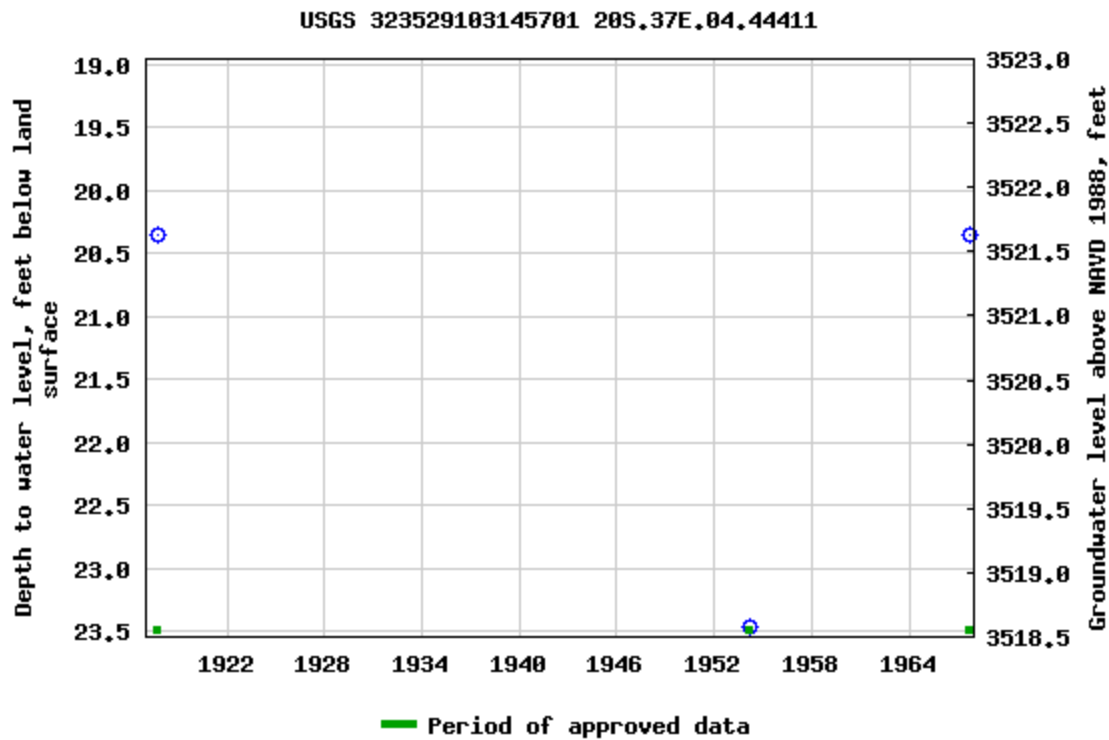
Output formats

[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.

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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: 2025-05-29 14:18:42 EDT


0.61 0.44 nadww02

Britt B #020

Maverick Permian
API #30-025-20299
Lea County, NM
nGRL0835160441
Surface Water Map

Legend

 7.99 Miles

 Hobbs Country Club Pond

Google Earth

Britt B #020

Monument Station

Hobbs Country Club Pond

Wilbanks Trucking Inc (Hobbs Yard)

S Bypass

Monument

Nadine

4 mi





Wetlands Map



May 29, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

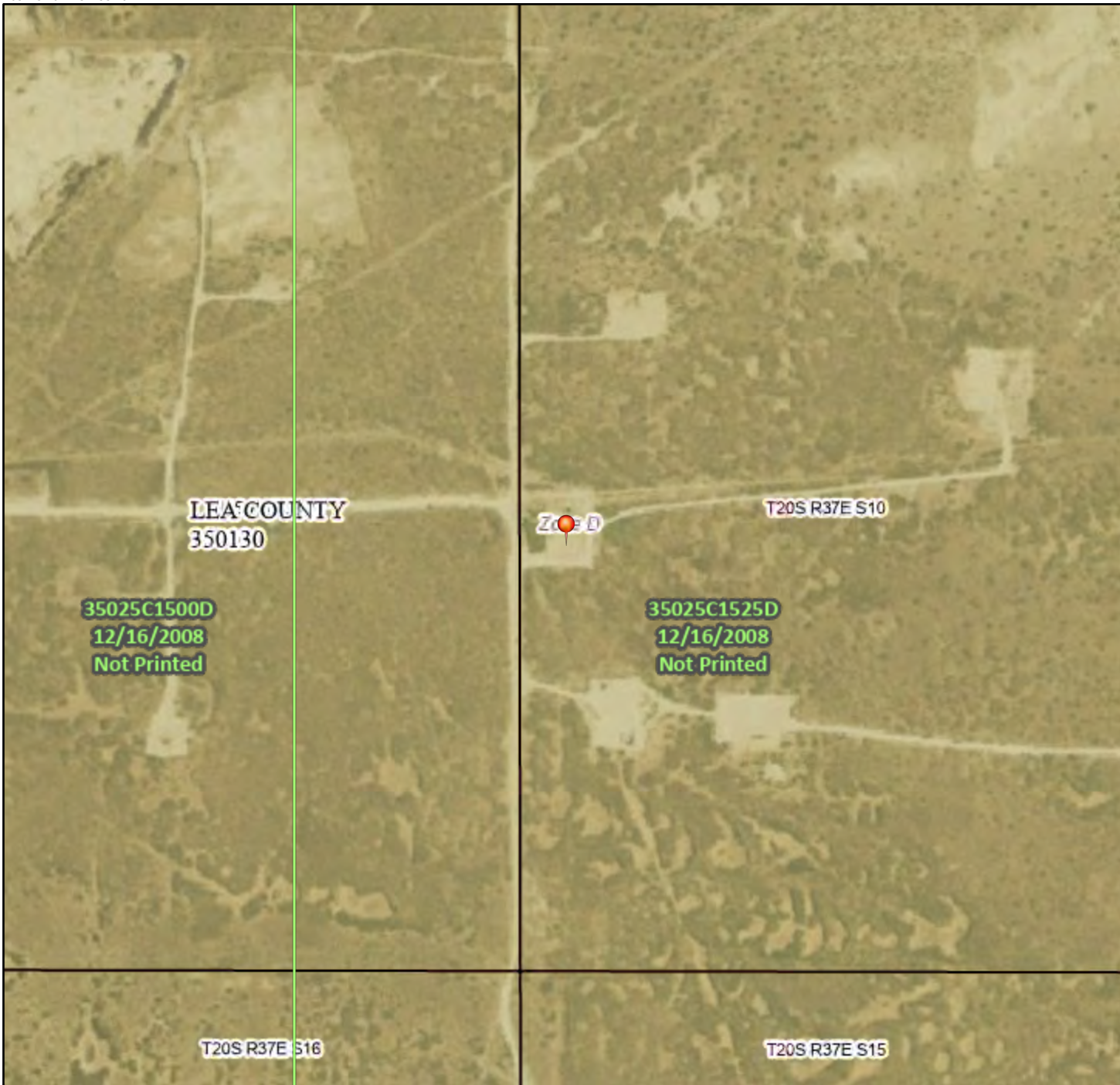
- Lake
- Other
- Riverine

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°15'10"W 32°35'16"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 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 5/29/2025 at 6:21 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

Soil Map—Lea County, New Mexico



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
KM	Kermit soils and Dune land, 0 to 12 percent slopes	1.3	100.0%
Totals for Area of Interest		1.3	100.0%

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

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

Britt B #020

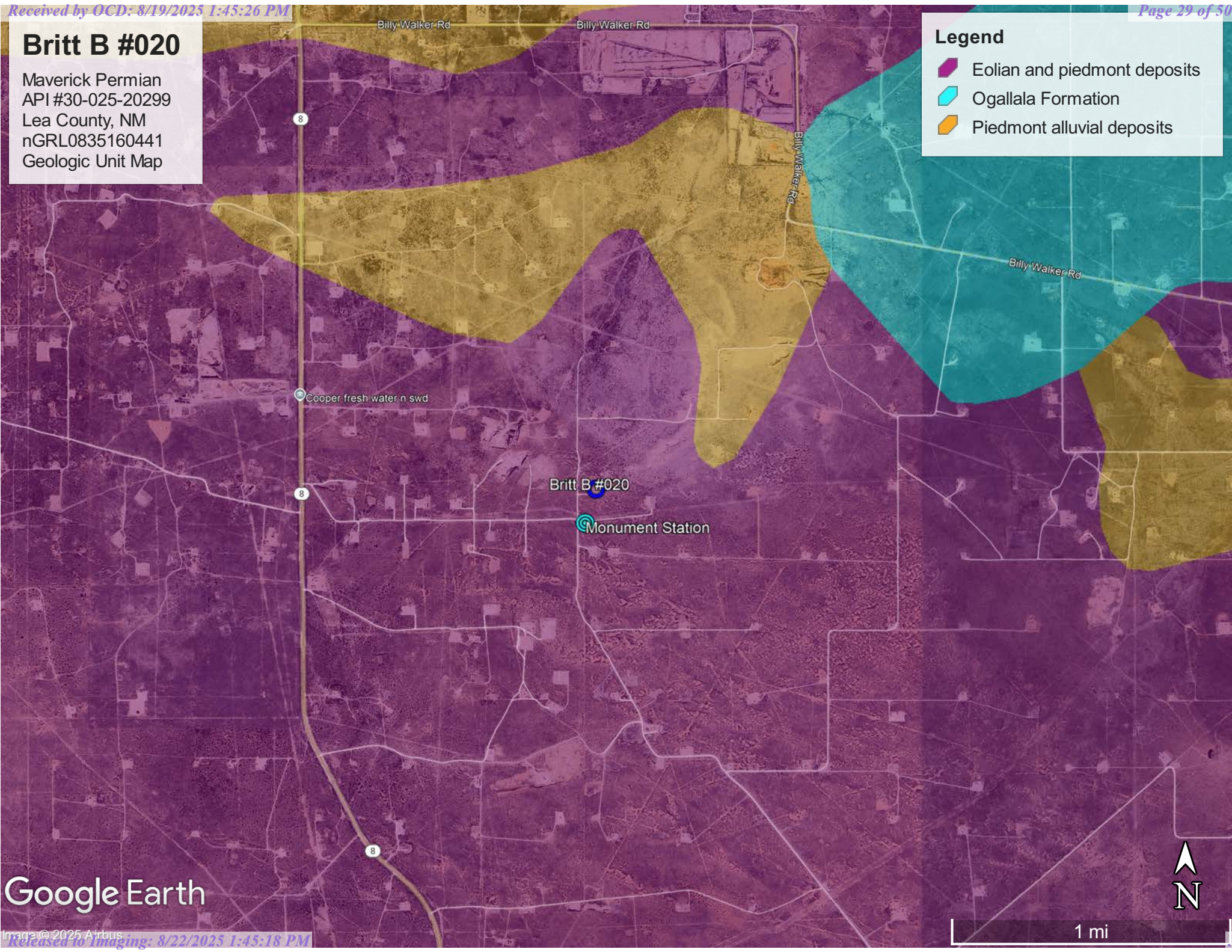
Maverick Permian
API #30-025-20299
Lea County, NM
nGRL0835160441
Geologic Unit Map

Legend

Eolian and piedmont deposits

Ogallala Formation

Piedmont alluvial deposits



Google Earth



Appendix D

Photographic Documentation



06Jun25 13:58 Britt B #20
Hobbs NM 88240, United States © 06-Jun-25 13:58:57



06Jun25 13:53 Britt B #20
Hobbs NM 88240, United States © 06-Jun-25 13:53:59



06Jun25 13:54 Britt B #20
Hobbs NM 88240, United States © 06-Jun-25 13:54:19



06Jun25 13:55 Britt B #20
Hobbs NM 88240, United States © 06-Jun-25 13:55:05





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

June 19, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #020

Enclosed are the results of analyses for samples received by the laboratory on 06/13/24 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/13/2024	Sampling Date:	06/12/2024
Reported:	06/19/2024	Sampling Type:	Soil
Project Name:	BRITT B #020	Sampling Condition:	Cool & Intact
Project Number:	nGRLO335160441	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH1 (0-0.5 FT) (H243426-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74	
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28	
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05	
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22	
Total BTX	<0.300	0.300	06/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/17/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2024	ND	192	96.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	06/15/2024	ND	198	98.8	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	06/15/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/13/2024
 Reported: 06/19/2024
 Project Name: BRITT B #020
 Project Number: nGRLO335160441
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 06/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH1 (2-2.5 FT) (H243426-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74	
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28	
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05	
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22	
Total BTEX	<0.300	0.300	06/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/17/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2024	ND	192	96.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	06/15/2024	ND	198	98.8	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	06/15/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/13/2024
 Reported: 06/19/2024
 Project Name: BRITT B #020
 Project Number: nGRLO335160441
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 06/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH2 (0-0.5 FT) (H243426-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74	
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28	
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05	
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22	
Total BTEX	<0.300	0.300	06/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/17/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2024	ND	192	96.0	200	1.15	
DRO >C10-C28*	<10.0	10.0	06/15/2024	ND	198	98.8	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	06/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/13/2024	Sampling Date:	06/12/2024
Reported:	06/19/2024	Sampling Type:	Soil
Project Name:	BRITT B #020	Sampling Condition:	Cool & Intact
Project Number:	nGRLO335160441	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH2 (2-2.5 FT) (H243426-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74		
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28		
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05		
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22		
Total BTEx	<0.300	0.300	06/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2024	ND	192	96.0	200	1.15	
DRO >C10-C28*	10.9	10.0	06/15/2024	ND	198	98.8	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	06/15/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/13/2024	Sampling Date:	06/12/2024
Reported:	06/19/2024	Sampling Type:	Soil
Project Name:	BRITT B #020	Sampling Condition:	Cool & Intact
Project Number:	nGRLO335160441	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH3 (0-0.5 FT) (H243426-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74		
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28		
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05		
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22		
Total BTEX	<0.300	0.300	06/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	190	95.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	192	95.8	200	0.716	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 64.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2024
 Reported: 06/19/2024
 Project Name: BRITT B #020
 Project Number: nGRLO335160441
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 06/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH3 (2-2.5 FT) (H243426-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74		
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28		
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05		
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22		
Total BTEx	<0.300	0.300	06/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	190	95.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	192	95.8	200	0.716	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2024
 Reported: 06/19/2024
 Project Name: BRITT B #020
 Project Number: nGRLO335160441
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 06/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH4 (0-0.5 FT) (H243426-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2024	ND	1.80	89.9	2.00	1.74	
Toluene*	<0.050	0.050	06/15/2024	ND	1.81	90.6	2.00	2.28	
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	1.73	86.3	2.00	2.05	
Total Xylenes*	<0.150	0.150	06/15/2024	ND	5.37	89.5	6.00	2.22	
Total BTX	<0.300	0.300	06/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/17/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	190	95.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	192	95.8	200	0.716	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2024
 Reported: 06/19/2024
 Project Name: BRITT B #020
 Project Number: nGRLO335160441
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 06/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH4 (2-2.5 FT) (H243426-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2024	ND	1.85	92.5	2.00	1.88		
Toluene*	<0.050	0.050	06/15/2024	ND	2.11	106	2.00	1.72		
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	2.30	115	2.00	0.752		
Total Xylenes*	<0.150	0.150	06/15/2024	ND	6.92	115	6.00	0.890		
Total BTEX	<0.300	0.300	06/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	190	95.1	200	1.40	
DRO >C10-C28*	31.5	10.0	06/14/2024	ND	192	95.8	200	0.716	
EXT DRO >C28-C36	27.7	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Tech Tech</u>		P.O. #:		BILL TO		ANALYSIS REQUEST																																	
Project Manager: <u>Chuck Terhune</u>		Company: <u>Tech Tech</u>																																					
Address:		Attn:																																					
City: <u>Artes</u>		Address:																																					
State: <u>NM</u>		City:																																					
Zip:		State:																																					
Phone #:		Phone #:																																					
Fax #:		Fax #:																																					
Project #: <u>2683516044</u>		Project Owner:																																					
Project Name: <u>RRITT B #020</u>		City:																																					
Project Location: <u>Lin County</u>		State:																																					
Sample Name: <u>Gilberts Sander</u>		Phone #:																																					
FOR LAB USE ONLY		Matrix		PRESERV.		SAMPLING																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
12/13/20		B41 (0-0.5 FT)																																					
2		B41 (2-2.5 FT)																																					
3		B42 (0-0.5 FT)																																					
4		B42 (2-2.5 FT)																																					
5		B43 (0-0.5 FT)																																					
6		B43 (2-2.5 FT)																																					
7		B44 (0-0.5 FT)																																					
8		B44 (2-2.5 FT)																																					

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Relinquished By: <u>Gilberts Sander</u>		Date: <u>6.13.24</u>		Received By: <u>APPROVED</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:	
Rainquished By:		Time: <u>8:05</u>		Received By:		REMARKS:			
Delivered By: (Circle One)		Observed Temp. °C <u>5.9</u>		Sample Condition		CHECKED BY: (Initials) <u>AP</u>		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
								Observed Temp. °C	
								Corrected Temp. °C	

FORM-000-R-3-4 07/11/23

† Cardinal cannot accept verbal results. Please email changes to celey.keene@cardinallabsnm.com

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

QUESTIONS

Action 497249

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nGRL0835160441
Incident Name	NGRL0835160441 BRITT B #020 @ 30-025-20299
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-20299] BRITT B #020

Location of Release Source

Please answer all the questions in this group.

Site Name	BRITT B #020
Date Release Discovered	10/29/2008
Surface Owner	Federal

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 Production Tank Crude Oil Released: 25 BBL Recovered: 0 BBL Lost: 25 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.

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QUESTIONS, Page 2

Action 497249

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	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. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 07/24/2024
--	--

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QUESTIONS, Page 3

Action 497249

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (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

Remediation Plan	
<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
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	59.2
GRO+DRO (EPA SW-846 Method 8015M)	31.5
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	10/15/2025
On what date will (or did) the final sampling or liner inspection occur	10/30/2025
On what date will (or was) the remediation complete(d)	11/15/2025
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	2799
What is the estimated volume (in cubic yards) that will be remediated	207
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 497249

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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.
<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: chuck.terhune@tetrattech.com Date: 08/19/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 497249

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	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 497249

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352750
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/12/2024
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 497249

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 497249
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions:	8/22/2025
scwells	1) Due to the Date of Discovery of this release being 10/29/2008, at the proposed sample location of 4, the OCD would like to see discrete samples collected from surface, in 1 foot increments, down to a depth of 10' to ensure all contaminants were removed from the tank battery in the past. These samples should be submitted to a laboratory to be tested for all Table I constituents.	8/22/2025
scwells	2) The variance request is approved to use delineation samples for closure should the laboratory results be below Table I Closure Criteria.	8/22/2025
scwells	Submit remediation closure report to the OCD by 10/21/25.	8/22/2025