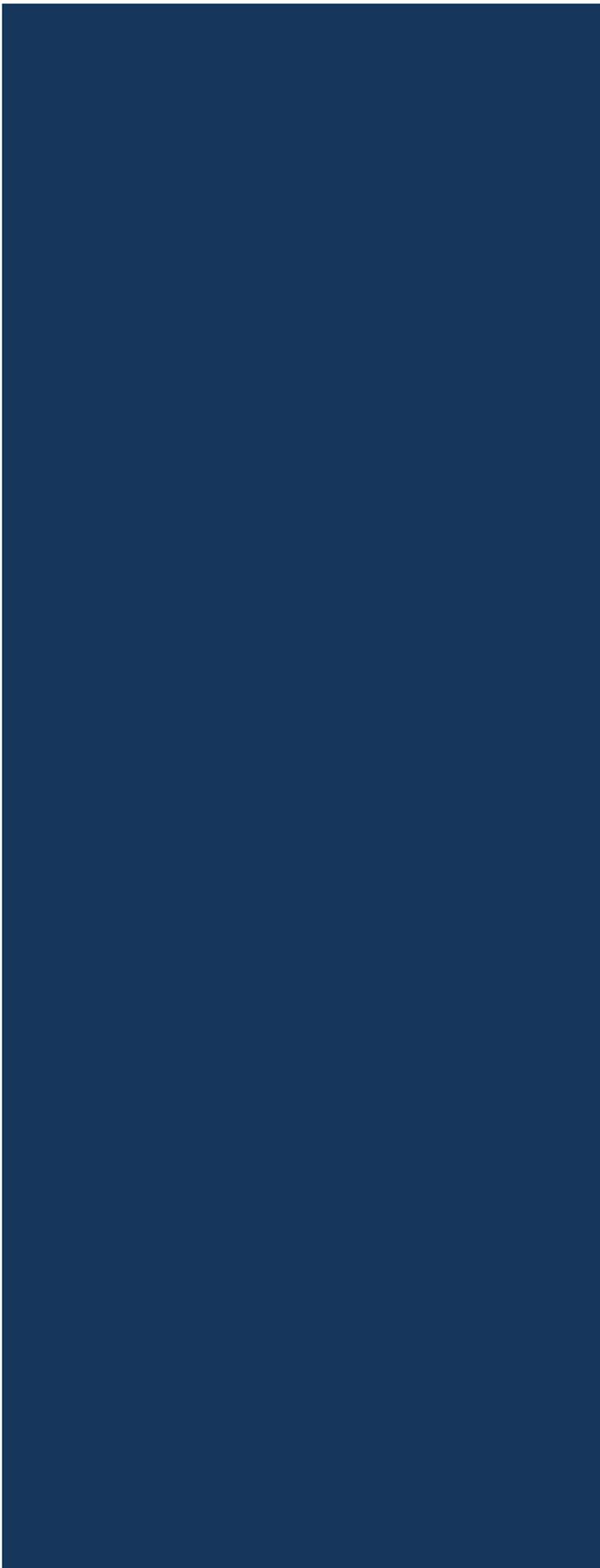


<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
72.000	50.000	1.500
Cubic Feet Impacted		450.000
Barrels		80.14
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		80.14
Saturation	Fluid present when squeezed	
Estimated Barrels Released		40.10000

<b>Instructions</b>
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

<b>Measurements</b>	
Length (ft)	72
Width (ft)	50
Depth (in)	1.500









**Pima Environmental Services**  
**5614 N. Lovington Highway**  
**Hobbs, NM 88240**  
**575-964-7740**

June 19, 2024

NMOCD District 2  
811 S. First St  
Artesia, NM, 88210

**RE: Liner Inspection and Closure Report**  
**Bone Yard 11 Fee 16H**  
**API No. 30-015-43999**  
**GPS: Latitude 32.601809 Longitude -104.4572301**  
**UL- K, Section 02, Township 20S, Range 25E**  
**Eddy County, NM**  
**NMOCD Reference No. NAPP2102551487**

Spur Energy Partners (Spur) has contracted Pima Environmental Services, LLC (Pima) to perform a liner inspection and prepare this closure report for the release of produced water that happened at the Bone Yard 11 Fee 16H (Bone Yard). On January 27, 2021, the initial C-141 was formally submitted. The corresponding release received the designation Incident ID NAPP2102551487 from the New Mexico Oil Conservation Division (NMOCD).

#### **Site Information and Site Characterization**

The Bone Yard is located approximately 17 miles southwest of Artesia, NM. This spill site is in Unit K, Section 02, Township 20S, Range 25E, Latitude 32.601809 Longitude -104.4572301, Eddy County, NM. A Location Map can be found in Figure 1.

Based on well water data from the New Mexico Office of the State Engineer, the nearest groundwater in this area (RA 10898 POD1) is 121 feet below the ground surface (BGS), located about 0.77 miles from the Bone Yard, with drilling completed on February 17, 2006. In contrast, the United States Geological Survey reports the nearest water well (USGS 323611104273601) in this region at a depth of 148.28 feet BGS, approximately 0.17 miles from the Bone Yard, with the last measurement taken on January 23, 2003. For detailed water survey references and precise well locations, see Appendix A, which includes relevant maps. It is notable that Bone Yard is situated in an area with high potential for karst, as shown in Figure 3. A comprehensive Topographic Map can be found in Figure 2.

#### **Release Information**

**NAPP2102551487:** On January 23, 2021, a six-inch suction line connecting the water tanks developed a hole, causing a leak. Approximately 40 barrels of produced water were released into the lined containment area. Recovery efforts using a vacuum truck successfully retrieved 35 barrels of the released water. All the produced water remained within the lined containment.

A Site Map can be found in Figure 4.

#### **Site Assessment and Liner Inspection**

Beginning on June 11, 2024, Pima Environmental was deployed to the Bone Yard site to perform remediation activities. Pima personnel started pressure washing the lined containment from the northernmost part of the central tank battery containment, moving southward to the southernmost tank, to eliminate any residual contamination.

On June 6, 2024, Spur personnel submitted a notification for a liner inspection, adhering to the necessary 48-hour notice period. The details of the 48-hour notification can be referenced in Appendix C.

On June 11, 2024, Pima Environmental conducted a liner inspection at the Bone Yard, covering approximately 4,000 square feet. We concluded that the liner and containment maintained their integrity and successfully retained the fluids. The liner inspection form and

photographic documentation are available in Appendix C.

**Closure Request**

After careful review, Pima requests that this incident NAPP2102551487 be closed. Spur has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or [sebastian@pimaoil.com](mailto:sebastian@pimaoil.com).

Respectfully,

*Sebastian Orozco*

Sebastian Orozco  
Project Manager  
Pima Environmental Services, LLC

**Attachments**

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- 48 Hour Notification
- Appendix C- Liner Inspection Form & Photographic Documentation



Pima Environmental Services

**Figures:**

1-Location Map

2- Topographic Map

3- Karst Map

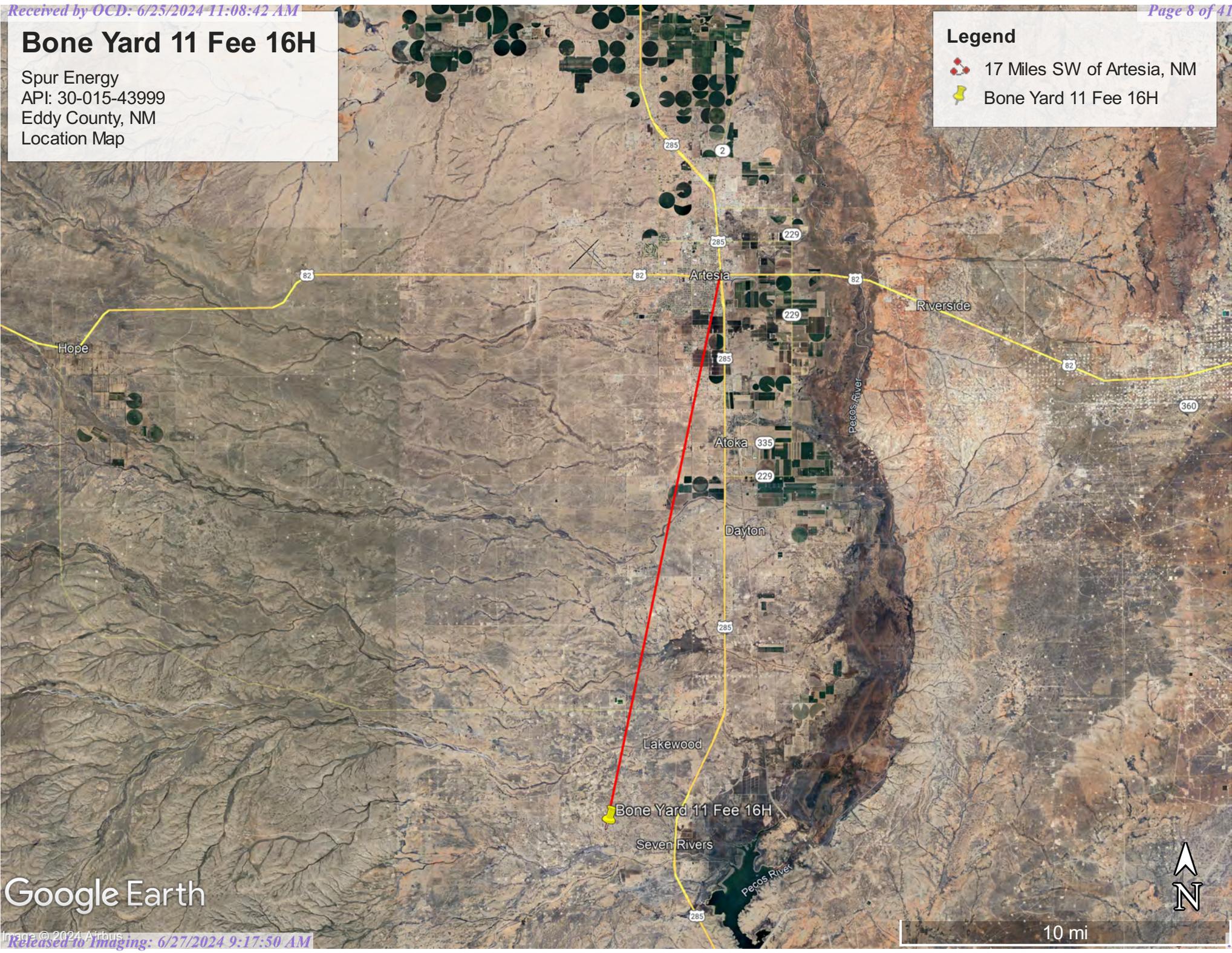
4- Site Map

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
Location Map

**Legend**

-  17 Miles SW of Artesia, NM
-  Bone Yard 11 Fee 16H



Google Earth

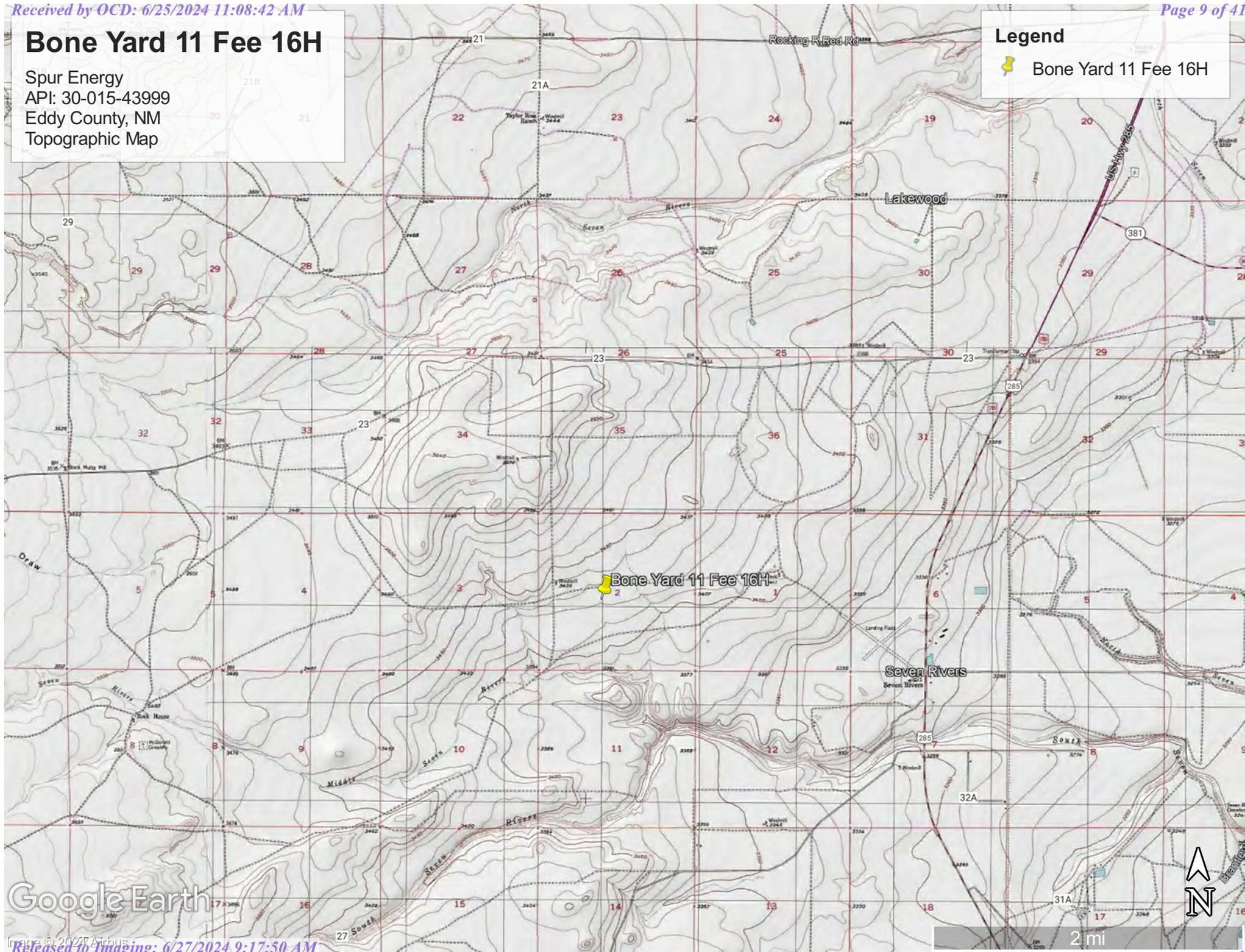
10 mi

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
Topographic Map

**Legend**

-  Bone Yard 11 Fee 16H



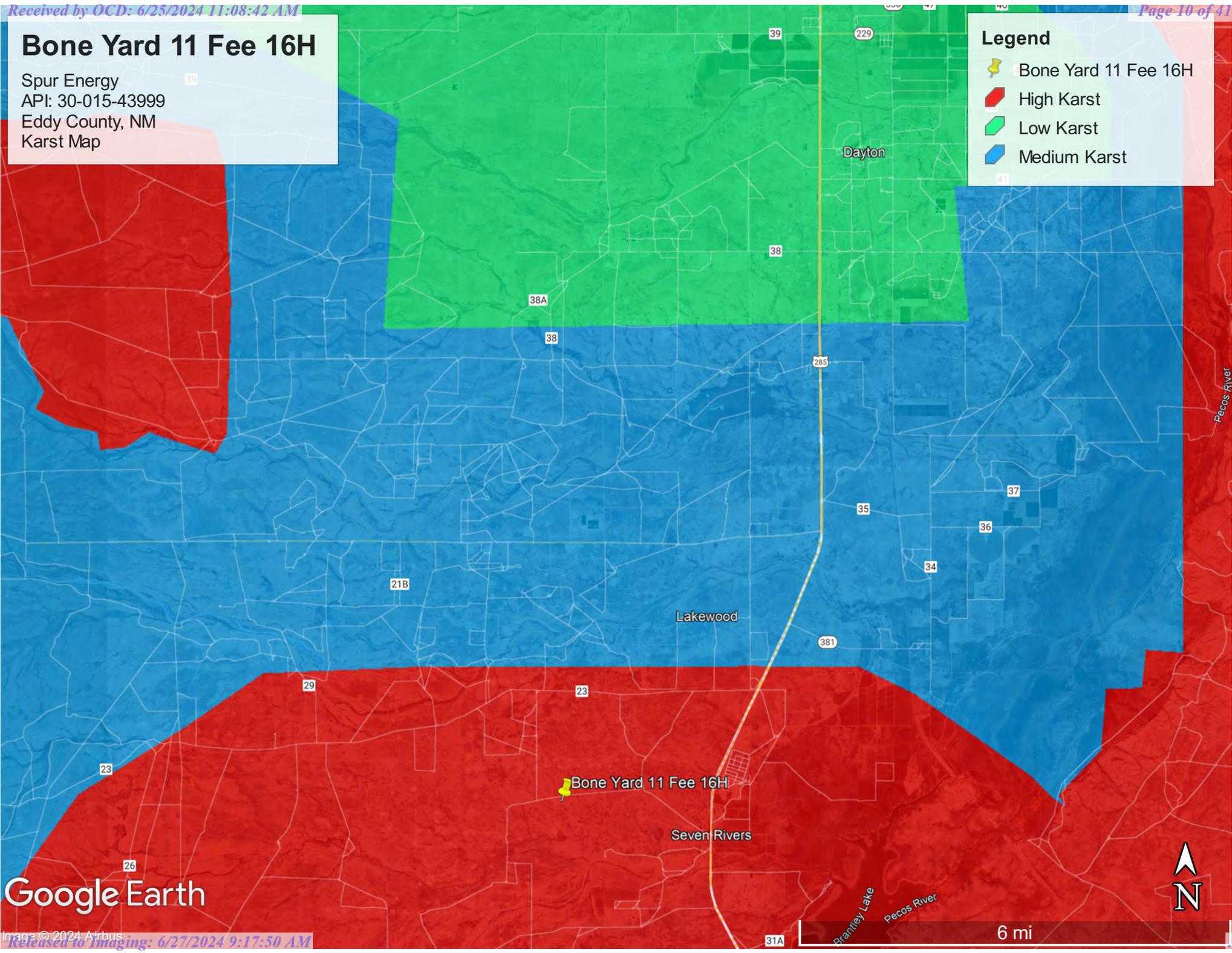
Google Earth

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
Karst Map

**Legend**

-  Bone Yard 11 Fee 16H
-  High Karst
-  Low Karst
-  Medium Karst



Google Earth

6 mi



# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
Site Map

## Legend

-  Bone Yard 11 Fee 16H
-  Inspected Area



Bone Yard 11 Fee 16H





Pima Environmental Services

**Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map

Wetlands Map

FEMA

SOIL



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q Q Q				Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
				64	16	4	4									
<a href="#">RA 10898 POD1</a>	RA	ED		2	1	3	01	20S	25E	552198	3607248*	1267	810	121	689	
<a href="#">RA 05458</a>	RA	ED		3	3	01	20S	25E	552101	3606747*	1283	500	95	405		
<a href="#">RA 10817</a>	RA	ED		1	1	1	12	20S	25E	552002	3606443*	1355	743	102	641	
<a href="#">RA 03018</a>	RA	ED		3	2	4	34	19S	25E	549987	3608639*	1659	530			
<a href="#">RA 10779</a>	RA	ED		1	3	2	10	20S	25E	549580	3606026*	1839	1300			
<a href="#">RA 02958</a>	RA	ED		1	4	34	19S	25E	549681	3608740*	1926	450				
<a href="#">RA 10918 POD1</a>	RA	ED		3	2	4	11	20S	25E	551600	3605434*	1958	694	70	624	
<a href="#">RA 01952</a>	RA	ED		3	1	3	12	20S	25E	552005	3605437*	2128				
<a href="#">RA 10818</a>	RA	ED		1	3	2	12	20S	25E	552807	3606039*	2246	692	72	620	
<a href="#">RA 05973</a>	RA	ED		4	3	10	20S	25E	549280	3605111	2721	200	130	70		
<a href="#">RA 07446</a>	RA	ED		4	2	12	20S	25E	553310	3605940*	2727	185	135	50		
<a href="#">RA 12986 POD1</a>	RA	ED		3	1	1	13	20S	25E	552008	3604634	2851	200			
<a href="#">RA 13196 POD1</a>	RA	ED		1	3	1	07	20S	26E	553603	3606077	2927	217	165	52	
<a href="#">RA 04501</a>	RA	ED		4	3	4	12	20S	25E	553011	3605035*	3056	100			
<a href="#">RA 10496</a>	RA	ED		3	3	4	25	19S	25E	552801	3609865*	3195	110	40	70	
<a href="#">RA 10716</a>	RA	ED		2	4	4	12	20S	25E	553412	3605235*	3211	637	45	592	
<a href="#">RA 10718</a>	RA	ED		3	1	2	13	20S	25E	552812	3604632*	3243	640	71	569	
<a href="#">RA 10155</a>	RA	ED		4	3	4	25	19S	25E	553001	3609865*	3316	225	60	165	
<a href="#">RA 03790</a>	RA	ED		2	2	1	07	20S	26E	554210	3606447*	3381	135	97	38	
<a href="#">RA 09497</a>	RA	ED		3	3	2	06	20S	26E	554410	3607460*	3483	200			
<a href="#">RA 02549</a>	RA	ED		1	2	3	07	20S	26E	554012	3605641*	3487	630			
<a href="#">RA 10949 POD1</a>	RA	ED		3	1	2	06	20S	26E	554409	3607867*	3528	807	71	736	
<a href="#">RA 03202 S3</a>	RA	ED		3	3	4	06	20S	26E	554412	3606656*	3535	205			
<a href="#">RA 06504</a>	RA	ED			3	14	20S	25E	550704	3603718*	3563	100				
<a href="#">RA 01451 SUP</a>	RA	ED		1	1	2	07	20S	26E	554412	3606452*	3576				
<a href="#">RA 02868</a>	RA	ED		1	1	2	07	20S	26E	554412	3606452*	3576	200			
<a href="#">RA 02182</a>	RA	ED			1	4	06	20S	26E	554512	3607159*	3582	575			
<a href="#">RA 01143</a>	RA	ED			3	4	06	20S	26E	554513	3606757*	3619	650			
<a href="#">RA 01451</a>	RA	ED			3	4	06	20S	26E	554513	3606757*	3619	330			
<a href="#">RA 01451 CLW</a>	RA	ED			3	4	06	20S	26E	554513	3606757*	3619	330			
<a href="#">RA 10929 POD1</a>	RA	ED		3	1	2	07	20S	26E	554412	3606252*	3627	763	56	707	
<a href="#">RA 05274</a>	RA	ED		2	4	3	14	20S	25E	551005	3603618*	3656	100	30	70	

<a href="#">RA 10719</a>	RA	ED	2	2	3	07	20S	26E	554212	3605641*		3665	1000			
<a href="#">RA 01451 CLW-1</a>	RA	ED	2	1	4	06	20S	26E	554611	3607258*		3680	271	65	206	
<a href="#">RA 07026</a>	RA	ED		3	3	30	19S	26E	553699	3609975*		3867	135	105	30	
<a href="#">RA 10002</a>	RA	ED	2	2	1	31	19S	26E	554208	3609675*		4062	200	95	105	
<a href="#">RA 10142</a>	RA	ED	1	1	2	23	20S	25E	551213	3603218*		4066	91			
<a href="#">RA 03304</a>	RA	ED		1	27	19S	25E	549081	3610973*		4135	130	60	70		
<a href="#">RA 13257 POD1</a>	RA	ED	4	4	4	31	19S	26E	554981	3608333		4186	90	80	10	
<a href="#">RA 01425 SUP</a>	O	RA	ED	1	2	4	07	20S	26E	554812	3605650*		4207	200	60	140
<a href="#">RA 13257 POD3</a>	RA	ED	4	4	4	31	19S	26E	555069	3608278		4258	93	82	11	
<a href="#">RA 13257 POD2</a>	RA	ED	4	4	4	31	19S	26E	555079	3608323		4278	90	81	9	
<a href="#">RA 01425</a>	O	RA	ED	3	2	4	07	20S	26E	554812	3605450*		4288	179		
<a href="#">RA 11852 POD1</a>	RA	ED	1	4	4	07	20S	26E	554755	3605299		4304	174	57	117	
<a href="#">RA 00434 S</a>	RA	ED	3	1	1	05	20S	26E	555210	3607873*		4320	650	20	630	
<a href="#">RA 04924</a>	RA	ED	1	1	1	08	20S	26E	555217	3606464*		4361	410	69	341	
<a href="#">RA 07683</a>	RA	ED	4	2	4	07	20S	26E	555012	3605450*		4470	184	77	107	
<a href="#">RA 05550</a>	RA	ED	3	1	3	32	19S	26E	555209	3608679*		4502	185	95	90	
<a href="#">RA 04545</a>	RA	ED	4	4	4	07	20S	26E	555011	3605047*		4648	156	80	76	
<a href="#">RA 10141</a>	RA	ED	3	4	1	23	20S	25E	550815	3602617*		4658	245			
<a href="#">RA 05972</a>	RA	ED	3	3	2	23	20S	25E	551217	3602617*		4666	170	40	130	
<a href="#">RA 05666</a>	RA	ED	3	1	2	08	20S	25E	546342	3606233		4705	249	249	0	
<a href="#">RA 08986</a>	RA	ED	1	3	3	22	19S	25E	548825	3611507		4728	320	220	100	
<a href="#">RA 13210 POD1</a>	RA	ED	3	2	4	23	19S	25E	551644	3611983		4762	101	82	19	
<a href="#">RA 10632</a>	RA	ED		3	3	08	20S	26E	555311	3605152*		4867	115	35	80	
<a href="#">RA 12699</a>	RA	ED	4	4	1	22	20S	25E	549327	3602647		4896				
<a href="#">RA 01712</a>	RA	ED	1	2	3	08	20S	26E	555617	3605654*		4958	634			
<a href="#">RA 01712 CLW</a>	RA	ED	1	2	3	08	20S	26E	555617	3605654*		4958	683			
<a href="#">RA 01712 CLW2</a>	RA	ED	1	2	3	08	20S	26E	555617	3605654*		4958	887			

Average Depth to Water: **86 feet**  
 Minimum Depth: **20 feet**  
 Maximum Depth: **249 feet**

Record Count: 59

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 550931

**Northing (Y):** 3607274.24

**Radius:** 5000

\*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.

6/12/24 10:13 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)								
<b>Well Tag</b>	<b>POD Number</b>		<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	RA 10898 POD1		2	1	3	01	20S	25E	552198	3607248*

(quarters are smallest to largest) (NAD83 UTM in meters)

---

<b>Driller License:</b> 331	<b>Driller Company:</b> SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
<b>Driller Name:</b>		
<b>Drill Start Date:</b> 02/17/2006	<b>Drill Finish Date:</b> 03/08/2006	<b>Plug Date:</b>
<b>Log File Date:</b> 03/27/2006	<b>PCW Rev Date:</b>	<b>Source:</b> Artesian
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 1000 GPM
<b>Casing Size:</b> 8.63	<b>Depth Well:</b> 810 feet	<b>Depth Water:</b> 121 feet

Water Bearing Stratifications:	Top	Bottom	Description
	460	802	Limestone/Dolomite/Chalk

---

Casing Perforations:	Top	Bottom
	542	802

\*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.

6/12/24 10:13 AM

POINT OF DIVERSION SUMMARY

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
OSE POD Map

**Legend**

-  0.77 of a mile
-  Bone Yard 11 Fee 16H
-  RA-10898-POD 1



Bone Yard 11 Fee 16H

RA-10898-POD 1

Google Earth



2000 ft



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.
- [Full News](#) 

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

site\_no list =

- 323611104273601

Minimum number of levels = 1

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

## USGS 323611104273601 20S.25E.02.133244

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°36'11", Longitude 104°27'36" NAD27

Land-surface elevation 3,438 feet above NAVD88

The depth of the well is 150.0 feet below land surface.

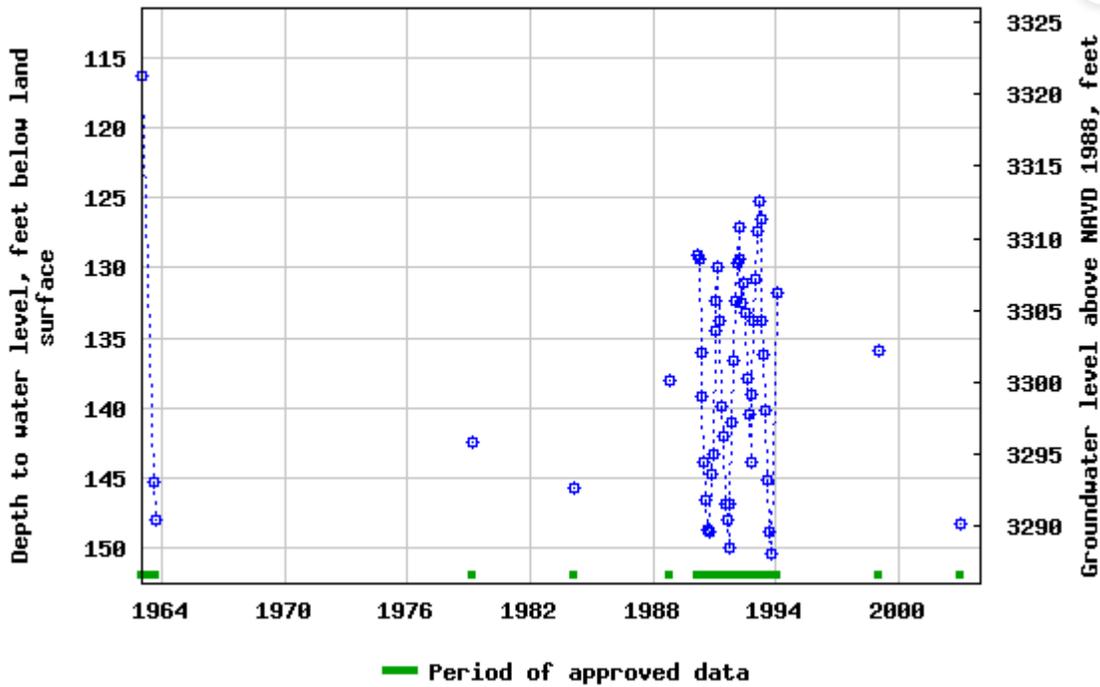
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 323611104273601 20S.25E.02.133244



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

- [Questions or Comments](#)
- [Automated retrievals](#)
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- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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

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



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

Page Last Modified: 2024-06-12 12:12:32 EDT

0.54 0.48 nadww01

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
USGS Map

## Legend

-  0.17 of a mile
-  Bone Yard 11 Fee 16H
-  USGS 323611104273601



Google Earth



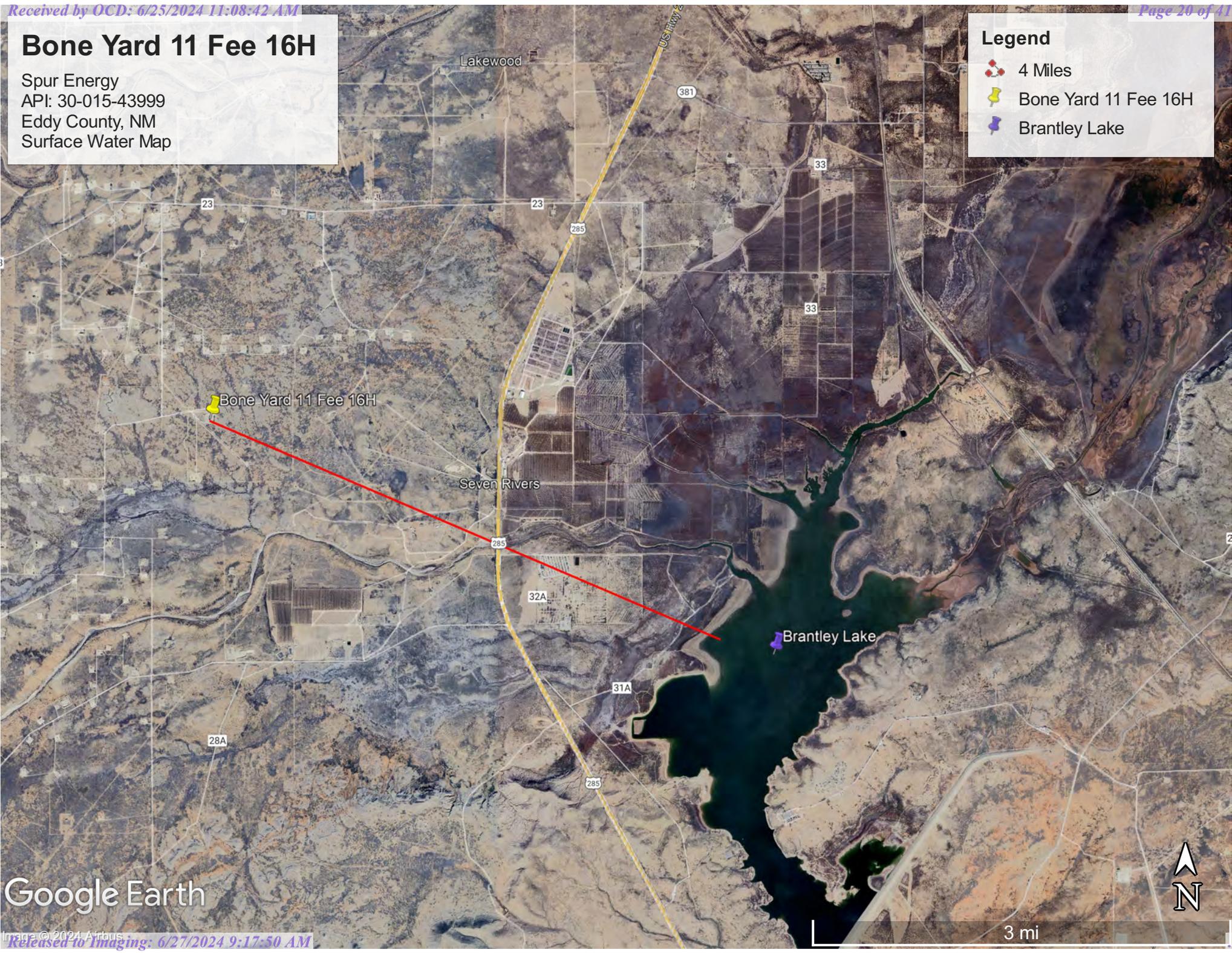
700 ft

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
Surface Water Map

**Legend**

-  4 Miles
-  Bone Yard 11 Fee 16H
-  Brantley Lake



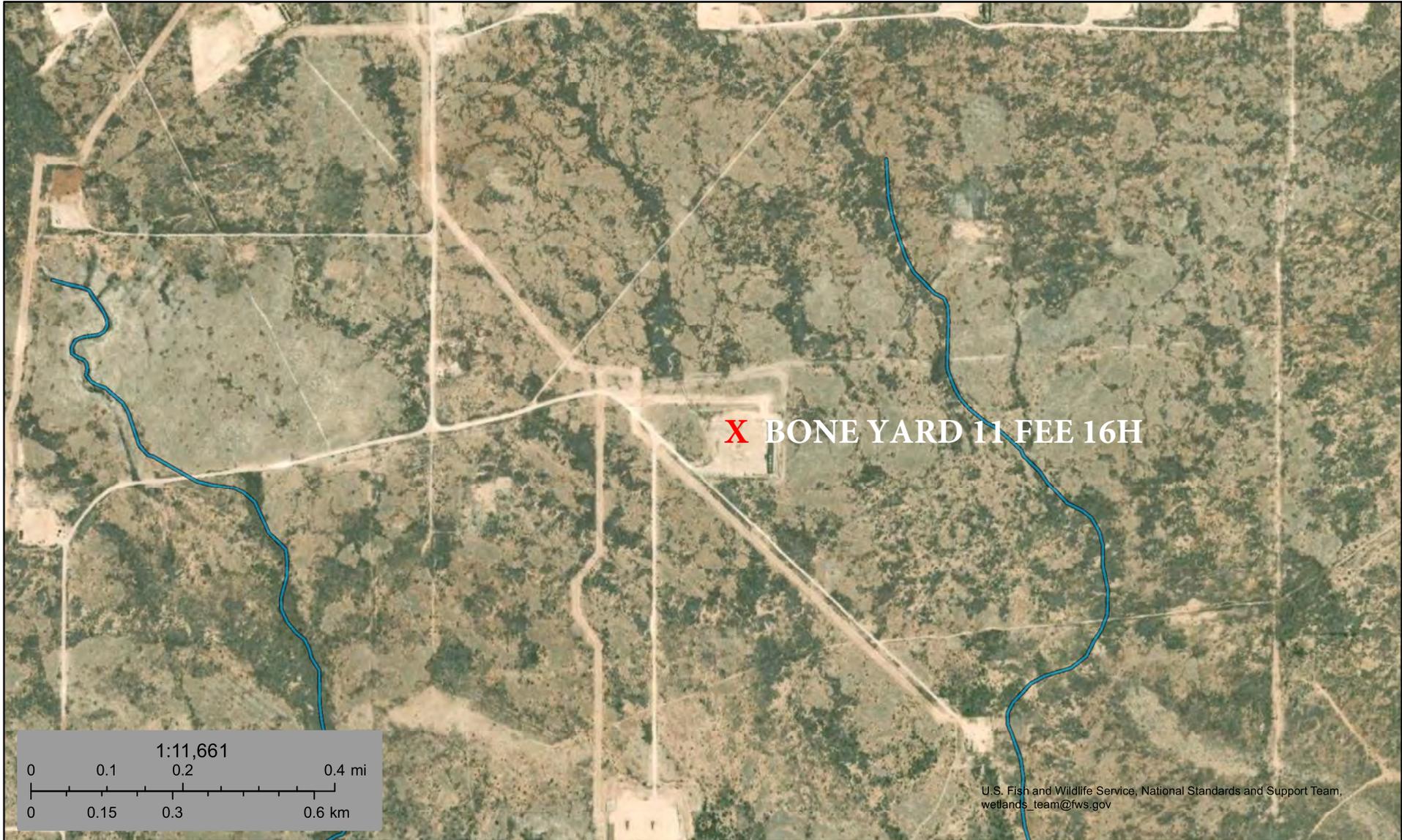
Google Earth

3 mi



# U.S. Fish and Wildlife Service National Wetlands Inventory

## Wetlands



June 12, 2024

### Wetlands

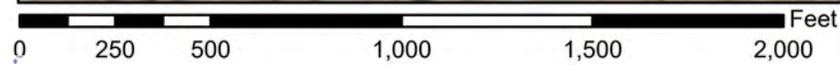
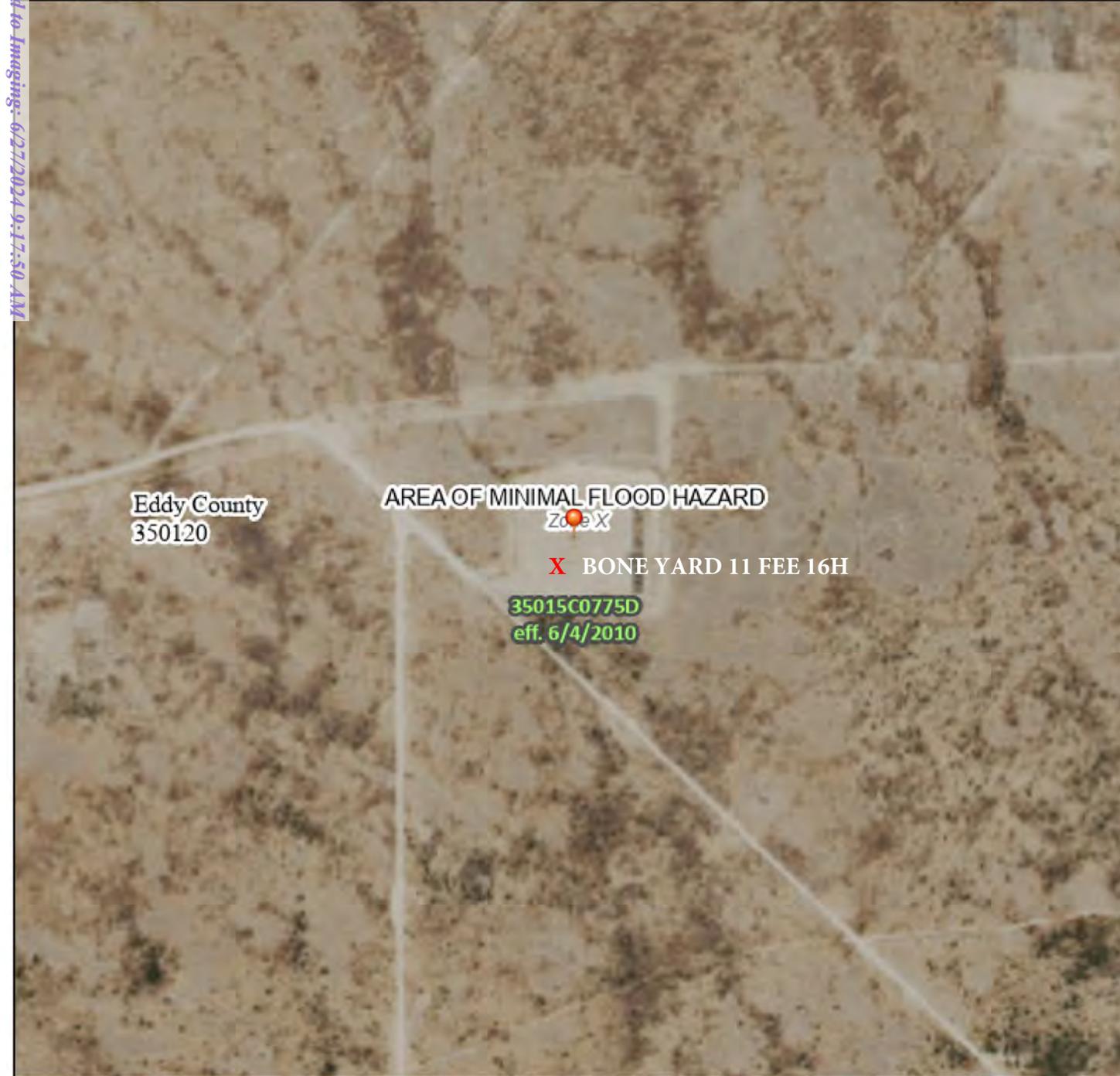
- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | 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



104°27'45"W 32°36'22"N



1:6,000

104°27'7"W 32°35'51"N

Basemap Imagery Source: USGS National Map 2023

## 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 X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		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 6/12/2024 at 12:15 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.

Released to Imaging: 6/27/2024 9:17:50 AM

Received by OCD: 6/25/2024 11:08:42 AM

Page 22 of 41

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

## Eddy Area, New Mexico

### RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5f  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 190 to 235 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Reeves and similar soils:* 55 percent  
*Gypsum land:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Reeves

##### Setting

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 32 inches:* clay loam  
*H3 - 32 to 60 inches:* gypsiferous material

##### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*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:* 25 percent  
*Gypsum, maximum content:* 80 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

---

### Interpretive groups

*Land capability classification (irrigated): 3s*  
*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BC007NM - Loamy*  
*Hydric soil rating: No*

### Description of Gypsum Land

#### Setting

*Landform: Ridges, plains, hills*  
*Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope*  
*Landform position (three-dimensional): Side slope, head slope, nose slope, crest*  
*Down-slope shape: Convex*  
*Across-slope shape: Linear*  
*Parent material: Residuum weathered from gypsum*

### Interpretive groups

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 8s*  
*Hydric soil rating: No*

### Minor Components

#### Reagan

*Percent of map unit: 5 percent*  
*Ecological site: R070BC007NM - Loamy*  
*Hydric soil rating: No*

#### Largo

*Percent of map unit: 5 percent*  
*Ecological site: R070BC007NM - Loamy*  
*Hydric soil rating: No*

#### Cottonwood

*Percent of map unit: 5 percent*  
*Ecological site: R070BC033NM - Salty Bottomland*  
*Hydric soil rating: No*

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 19, Sep 7, 2023

(<https://www.usgs.gov/>)

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)  
 / Online Spatial Data (/) / Geology (/geology/) / by state (/geology/state/)  
 / New Mexico (/geology/state/state.php?state=NM)

## Piedmont alluvial deposits

[XML \(/geology/state/xml/NMQp;0\)](/geology/state/xml/NMQp;0)

[JSON \(/geology/state/json/NMQp;0\)](/geology/state/json/NMQp;0)

[Shapefile \(/geology/state/unit-shape.php?unit=NMQp;0\)](/geology/state/unit-shape.php?unit=NMQp;0)

*Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits.*

<b>State</b>	New Mexico (/geology/state/state.php?state=NM)
<b>Name</b>	Piedmont alluvial deposits
<b>Geologic age</b>	Holocene to lower Pleistocene
<b>Lithologic constituents</b>	Major Unconsolidated (Alluvial) <i>Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans</i>
<b>References</b>	<p>Green, G.N., Jones, G.E., and Anderson, O.J., 1997, The Digital Geologic Map of New Mexico in ARC/INFO Format: U.S. Geological Survey Open-File Report 97-0052, 9 p., scale 1:500,000.</p> <p><a href="https://pubs.er.usgs.gov/publication/ofr9752">https://pubs.er.usgs.gov/publication/ofr9752</a>        (https://pubs.er.usgs.gov/publication/ofr9752)</p>

<b>NGMDB product</b>	<p>NGMDB product page for 59219  (<a href="https://ngmdb.usgs.gov/Prodesc/proddesc_59219.htm">https://ngmdb.usgs.gov/Prodesc/proddesc_59219.htm</a>)</p> <p>NGMDB product page for 22974  (<a href="https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm">https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm</a>)</p>
<b>Counties</b>	<p>Bernalillo (/geology/state/fips-unit.php?code=f35001) - Catron (/geology/state/fips-unit.php?code=f35003) - Chaves (/geology/state/fips-unit.php?code=f35005) - Colfax (/geology/state/fips-unit.php?code=f35007) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Dona Ana (/geology/state/fips-unit.php?code=f35013) - Eddy (/geology/state/fips-unit.php?code=f35015) - Grant (/geology/state/fips-unit.php?code=f35017) - Guadalupe (/geology/state/fips-unit.php?code=f35019) - Hidalgo (/geology/state/fips-unit.php?code=f35023) - Lea (/geology/state/fips-unit.php?code=f35025) - Lincoln (/geology/state/fips-unit.php?code=f35027) - Los Alamos (/geology/state/fips-unit.php?code=f35028) - Luna (/geology/state/fips-unit.php?code=f35029) - Mora (/geology/state/fips-unit.php?code=f35033) - Otero (/geology/state/fips-unit.php?code=f35035) - Quay (/geology/state/fips-unit.php?code=f35037) - Rio Arriba (/geology/state/fips-unit.php?code=f35039) - Roosevelt (/geology/state/fips-unit.php?code=f35041) - Sandoval (/geology/state/fips-unit.php?code=f35043) - San Miguel (/geology/state/fips-unit.php?code=f35047) - Santa Fe (/geology/state/fips-unit.php?code=f35049) - Sierra (/geology/state/fips-unit.php?code=f35051) - Socorro (/geology/state/fips-unit.php?code=f35053) - Taos (/geology/state/fips-unit.php?code=f35055) - Torrance (/geology/state/fips-unit.php?code=f35057) - Valencia (/geology/state/fips-unit.php?code=f35061)</p>

DOI Privacy Policy (<https://www.doi.gov/privacy>) | Legal ([https://www.usgs.gov/laws/policies\\_notices.html](https://www.usgs.gov/laws/policies_notices.html)) | Accessibility (<https://www2.usgs.gov/laws/accessibility.html>) | Site Map (<https://www.usgs.gov/sitemap.html>) | Contact USGS (<https://answers.usgs.gov/>)

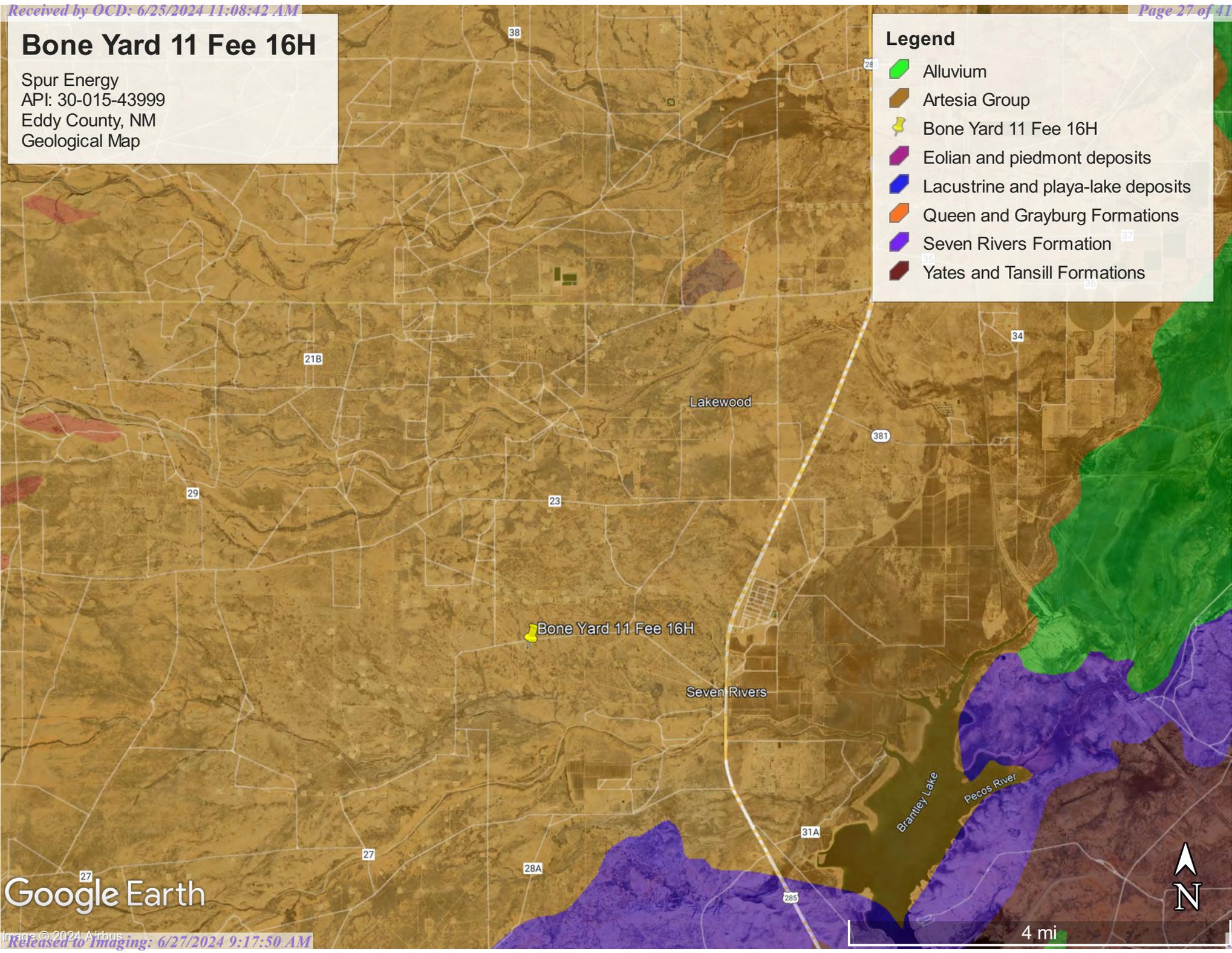
U.S. Department of the Interior (<https://www.doi.gov/>) | DOI Inspector General (<https://www.doiig.gov/>) | White House (<https://www.whitehouse.gov/>) | E-gov (<https://www.whitehouse.gov/omb/management/egov/>) | No Fear Act (<https://www.doi.gov/pmb/eeo/no-fear-act>) | FOIA (<https://www2.usgs.gov/foia>)

# Bone Yard 11 Fee 16H

Spur Energy  
API: 30-015-43999  
Eddy County, NM  
Geological Map

**Legend**

-  Alluvium
-  Artesia Group
-  Bone Yard 11 Fee 16H
-  Eolian and piedmont deposits
-  Lacustrine and playa-lake deposits
-  Queen and Grayburg Formations
-  Seven Rivers Formation
-  Yates and Tansill Formations



Google Earth

4 mi





Pima Environmental Services

**Appendix B**

48-Hour Notification

**Sebastian@pimaoil.com**

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**From:** OCDOnline@state.nm.us  
**Sent:** Thursday, June 6, 2024 4:32 PM  
**To:** sebastian@pimaoil.com  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 351773

To whom it may concern (c/o Sebastian Orozco for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2102551487.

The liner inspection is expected to take place:

**When:** 06/11/2024 @ 07:00

**Where:** K-02-20S-25E 2373 FSL 2110 FWL (32.601809,-104.4572301)

**Additional Information:** Marisa Loya  
5754160639

**Additional Instructions:** 32.601809,-104.4572301

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505



Pima Environmental Services

**Appendix C**

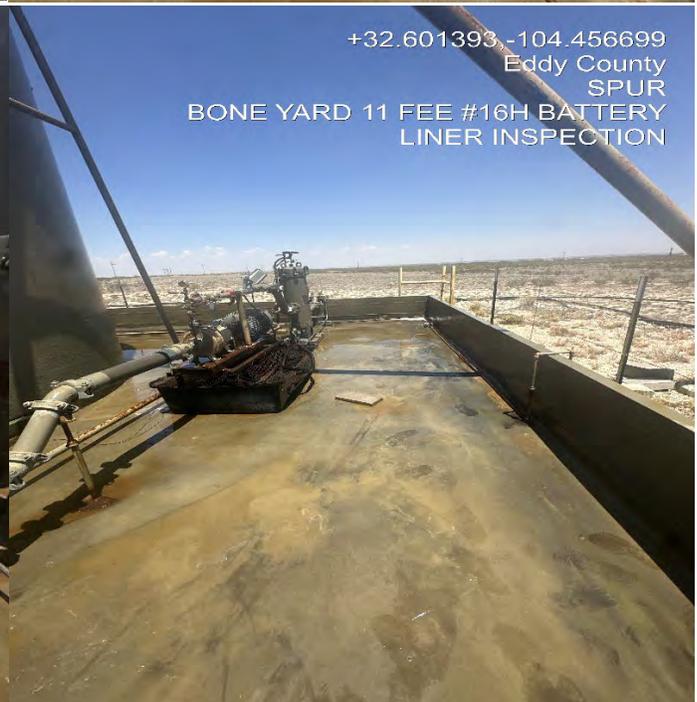
Liner Inspection Form

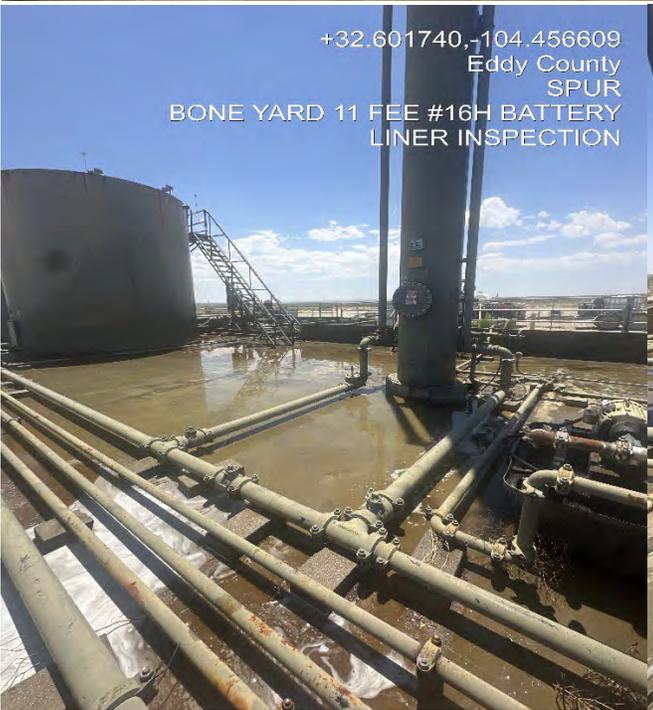
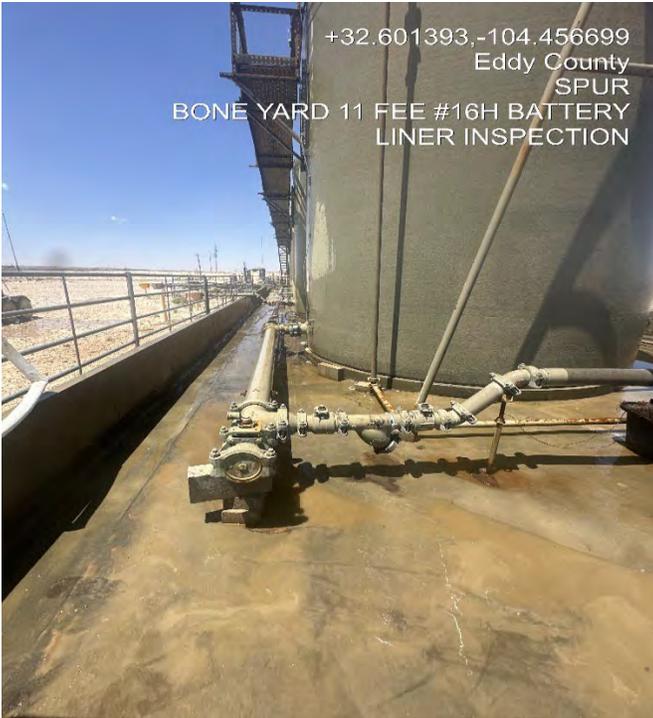
Photographic Documentation

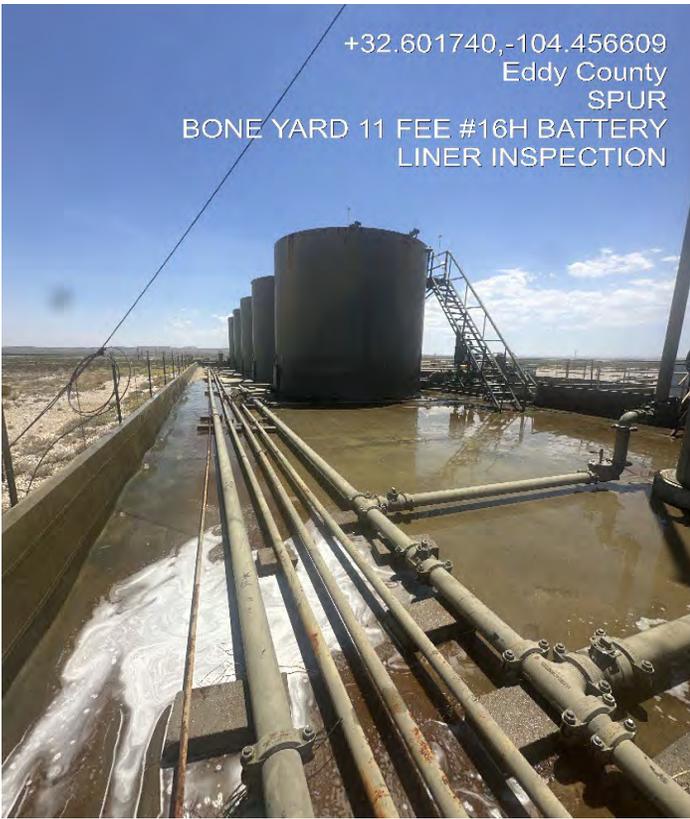


**SITE PHOTOGRAPHS**  
**Spur Energy Partners**  
**Bone Yard 11 Fee #016H**

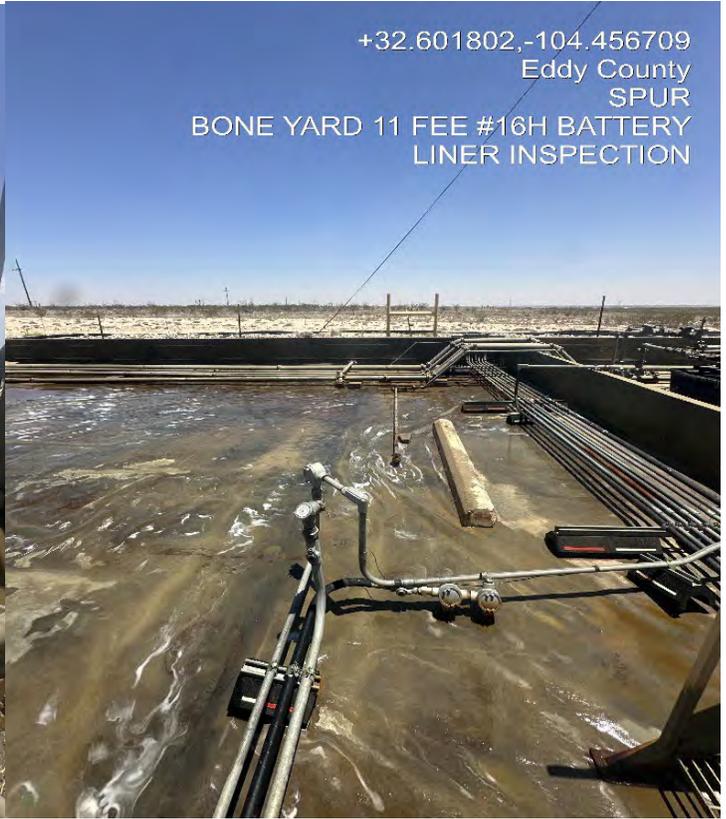
**Liner Inspection-**



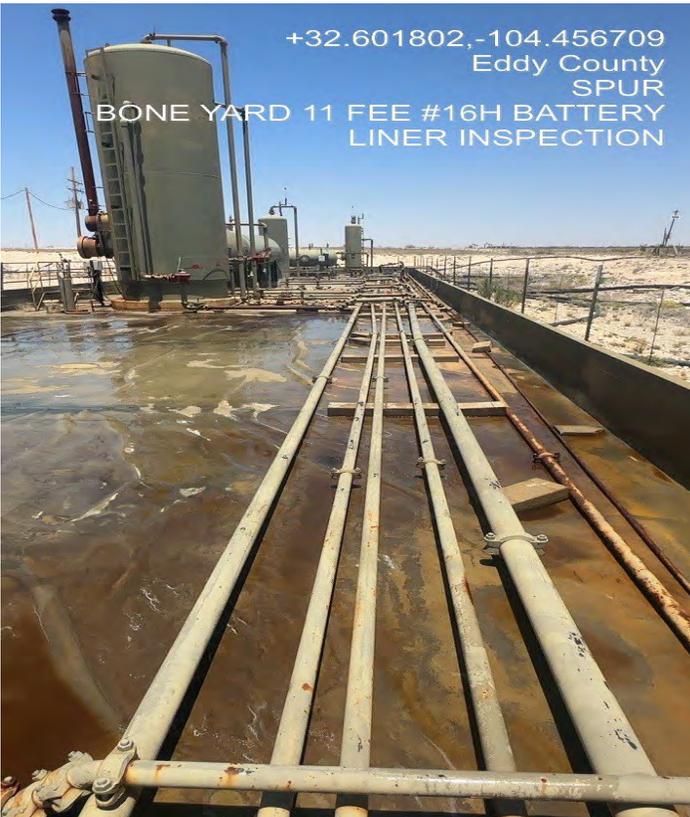




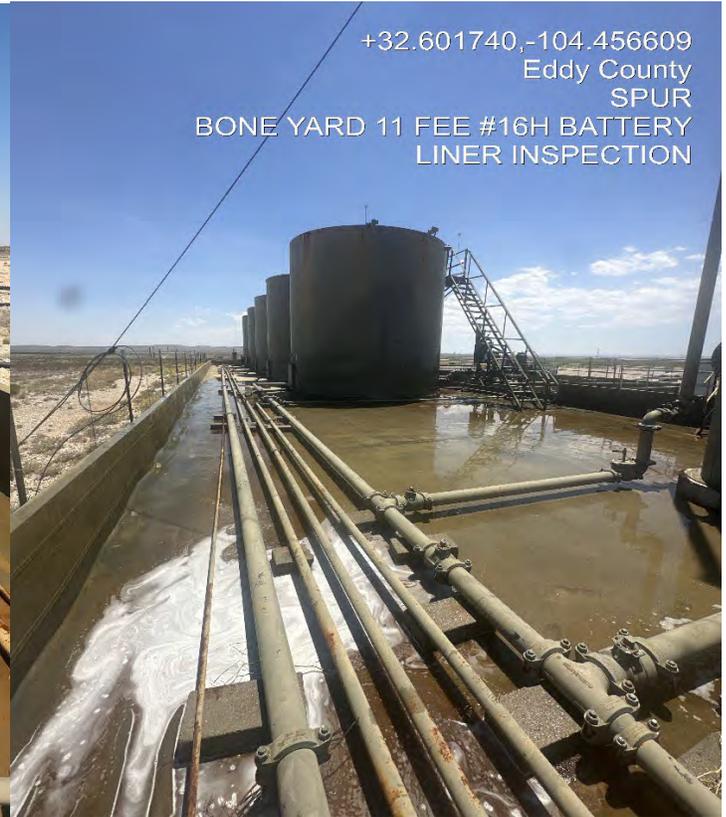
+32.601740,-104.456609  
Eddy County  
SPUR  
BONE YARD 11 FEE #16H BATTERY  
LINER INSPECTION



+32.601802,-104.456709  
Eddy County  
SPUR  
BONE YARD 11 FEE #16H BATTERY  
LINER INSPECTION



+32.601802,-104.456709  
Eddy County  
SPUR  
BONE YARD 11 FEE #16H BATTERY  
LINER INSPECTION



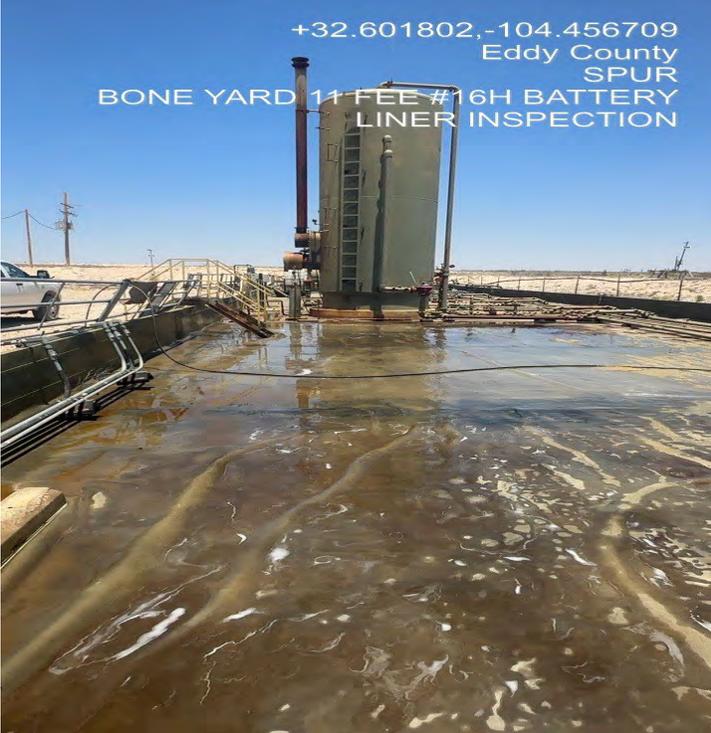
+32.601740,-104.456609  
Eddy County  
SPUR  
BONE YARD 11 FEE #16H BATTERY  
LINER INSPECTION



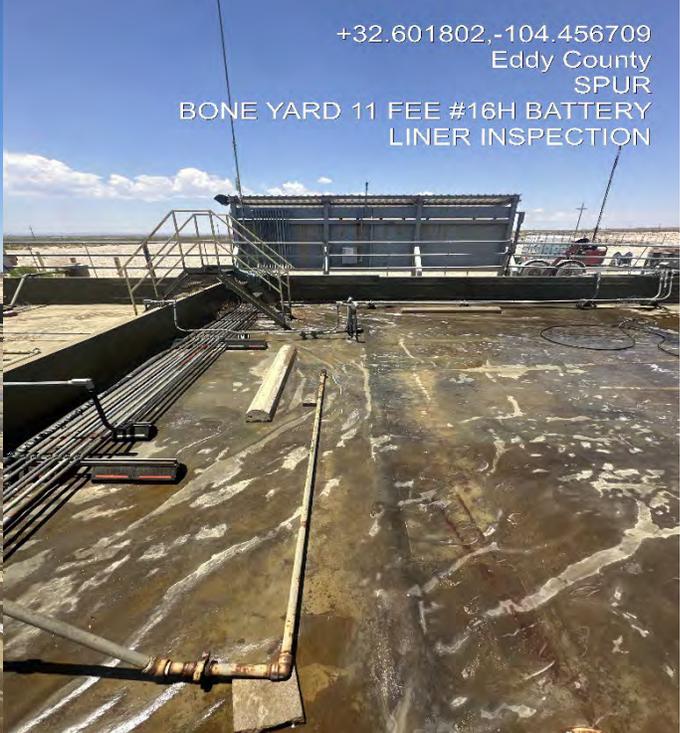
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LINER INSPECTION



Pima Environmental Services, LLC

**Liner Inspection Form**

Company Name: Spur Energy

Site: Bone Yard 11 Fee 16H

Lat/Long: 32.601809, -104.4572301

NMOCD Incident ID & Incident Date: NAPP2102551487 01/23/2021

2-Day Notification Sent: via OCD Portal by Sebastian Orozco 06/06/2024

Inspection Date: 06/11/2024

Liner Type:      Earthen w/liner                      Earthen no liner                      Polyester  
                          Steel w/poly liner                      Steel w/spray epoxy                      No Liner

Other: \_\_\_\_\_

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?	X		The liner has a film of water due to pressure washing activities.
Does the liner have integrity to contain a leak?	X		

Comments: \_\_\_\_\_

Inspector Name: Marisa Loya      Inspector Signature: Marisa Loya

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

QUESTIONS

Action 357303

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2102551487
Incident Name	NAPP2102551487 BONE YARD 11 FEE 16H @ 30-015-43999
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-43999] BONE YARD 11 FEE #016H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	BONE YARD 11 FEE 16H
Date Release Discovered	01/23/2021
Surface Owner	Private

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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations   Flow Line - Production   Produced Water   Released: 40 BBL   Recovered: 35 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**State of New Mexico**  
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QUESTIONS, Page 2

Action 357303

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	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	N/A

*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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/25/2024
--	--

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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 357303

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
<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	06/11/2024
On what date will (or did) the final sampling or liner inspection occur	06/11/2024
On what date will (or was) the remediation complete(d)	06/11/2024
What is the estimated surface area (in square feet) that will be remediated	4000
What is the estimated volume (in cubic yards) that will be remediated	0
<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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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 357303

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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.)*

Is (or was) there affected material present needing to be removed	No
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process)	No

*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.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/25/2024
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*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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

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

QUESTIONS, Page 6

Action 357303

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Liner Inspection Information</b>	
Last liner inspection notification (C-141L) recorded	<b>351773</b>
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	<b>06/11/2024</b>
Was all the impacted materials removed from the liner	<b>Yes</b>
What was the liner inspection surface area in square feet	<b>4000</b>

**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	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>4000</b>
What was the total volume (cubic yards) remediated	<b>0</b>
Summarize any additional remediation activities not included by answers (above)	<b>LINER WAS POWERWASHED AND INSPECTED AND FOUND TO BE ABLE TO CONTAIN FLUIDS *IT IS BELIEVED THE INITIAL VOLUME CALCULATION WAS INCORRECT BECAUSE ALL FLUIDS WERE CAPTURED</b>

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/25/2024
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CONDITIONS

Action 357303

**CONDITIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
crystal.walker	None	6/27/2024