

Spill Volume(Bbls) CalculatorInputs in *blue*, Outputs in *red*

Length(Ft)	Width(Ft)	Depth(In)
<u>75.000</u>	<u>55.000</u>	<u>2.000</u>
Cubic Feet Impacted		<u>687.500</u>
Barrels		<u>122.44</u>
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		<u>18.37</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		18.40000

Instructions

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)

Measurements

Length (ft)	75
Width (ft)	55
Depth (in)	2.000







Remediation Summary & Soil Closure Request

Spur Energy Partners, LLC Patton 5 Fee #008H Battery

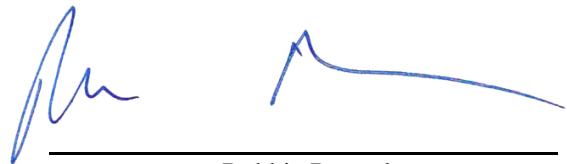
Eddy County, New Mexico
Unit Letter M, Section 5, Township 19 South, Range 26 East
Latitude 32.683693 North, Longitude 104.411751 West
NMOCD Reference No. nAPP2318130041

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2617 W. Marland
Hobbs, New Mexico 88240



Matthew Grieco



Robbie Runnels



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Spur Energy Partners, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Patton 5 Fee #008H Battery (henceforth "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.683693 Longitude: -104.411751

Provided GPS are in WGS84 format.

Site Name:	Patton 5 Fee #008H Battery	Site Type:	Tank Battery
Date Release Discovered:	6/28/2023	API # (if applicable):	30-105-39641

Unit Letter	Section	Township	Range	County
M	5	19S	26E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name MAYES ROBERT B & NANCY G (JT))

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 18	Volume Recovered (bbls) 16
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

WTP flex hose separated from KC nipple releasing produced water into lined containment with a small amount breaching the containment.

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 75 and 100 (ft.)
What method was used to determine the depth to groundwater?	U.S. Geological Survey
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	500 to 1,000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	1,000 (ft.) to ½ (mi.)
An occupied permanent residence, school, hospital, institution or church?	1,000 (ft.) to ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	½ to 1 (mi.)
Any other fresh water well or spring?	1,000 (ft.) to ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	500 to 1,000 (ft.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	500 to 1,000 (ft.)
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	200 to 300 (ft.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, 5, and Appendix F.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 75 and 100 (ft.)	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)
† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).
‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	<u>2/12/2024</u>
On what date will (or was) the remediation complete(d)?	<u>2/14/2024</u>
What was the total surface area (sq. ft.) that has or will be remediated?	<u>2,200</u>
What was the total volume (cy) that has or will be remediated?	<u>80</u>
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	<u>Lea Land, Inc.</u>
NMOCD Disposal Facility ID?	<u>FEEM0112342028</u>
Summarize any additional remediation activities not included by answers above.	<u>See below</u>

On July 28, 2023, Etech conducted an initial site assessment. During the initial site assessment, two (2) hand-augered soil bores (V1 and V2) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, six (6) delineation soil samples (V 1 @ Surface, V 1 @ 1', V 1 @ 2', V 2 @ Surface, V 2 @ 1', and V 2 @ 2') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO + DRO, and TPH concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples, with the exception of samples V 1 @ Surface and V 2 @ Surface.

Based on laboratory analytical data, the vertical extent of impacted soil was adequately defined in the areas characterized by sample points V1 and V2 and did not extend beyond one (1) foot bgs. Horizontal delineation was later achieved with the excavation confirmation wall soil samples.

On February 12, 2024, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure

Criteria. Representative five-point composite confirmation soil samples were collected from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	35,600	V 1 @ Surface	7/28/2023	0	Excavated
TPH	<30.0	All Samples	2/12/2024	1	Excavated, In-Situ
GRO+DRO	<20.0	All Samples	2/12/2024	1	Excavated, In-Situ
Benzene	<0.050	All Samples	2/12/2024	1	Excavated, In-Situ
BTEX	<0.300	All Samples	2/12/2024	1	Excavated, In-Situ

Please reference Table 1 for additional information.

Etech collected 11 confirmation soil samples (EW - 1, NW - 1, SW - 1, WW - 1, and FL - 1 @ 1' through FL - 7 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. Benzene, BTEX, TPH, and chloride concentrations were also below the applicable NMOCD Reclamation Standards in each of the submitted wall confirmation soil samples, providing delineation for the horizontal extent of soil impacts.

The final dimensions of the excavated area were approximately 75 feet in length, fifteen (15) to forty (40) feet in width, and one (1) foot in depth. During the course of remediation activities, Etech transported approximately eighty (80) cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately eighty (80) cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

Delineation and confirmation soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site and Sample Location Map". A soil chemistry table is provided as Table 1. Field data is provided in Appendix B. A photographic log of remediation activities is provided as Appendix C. Laboratory analytical reports are provided in Appendix D. Regulatory correspondence is provided in Appendix E. Electronic C-141 supplemental Site characterization maps are provided as Appendix F.

On April 2, 2024, Etech performed a liner inspection to survey the integrity of the liner. All four-thousand eight hundred (4,800) square feet of liner was inspected. There were no noticeable holes, tears or imperfections. The liner integrity appeared to be intact. The *Liner Integrity Inspection Report* is provided as Appendix G.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	<u>1,257</u>
What was the total volume (cy) reclaimed?	<u>80</u>
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	<u>943</u>
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	<u>35</u>

The release was limited to an active production pad. Upon receiving laboratory analytical results from confirmation soil samples,

excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Final reclamation and re-vegetation will be conducted upon decommissioning and abandonment of the facility.

6.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate that in-situ concentrations of benzene, BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria.

Based on observations made by Etech personnel during the course of inspection activities, it was determined that the integrity of the liner is adequate, and the liner is performing as intended. The attached photographs of the liner show the integrity of the liner has not been compromised.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Spur Energy Partners, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Patton 5 Fee #008H Battery release site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Spur Energy Partners, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Spur Energy Partners, LLC.

8.0 DISTRIBUTION

Spur Energy Partners, LLC

9655 Katy Freeway

Suite 500

Houston, TX 77024

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

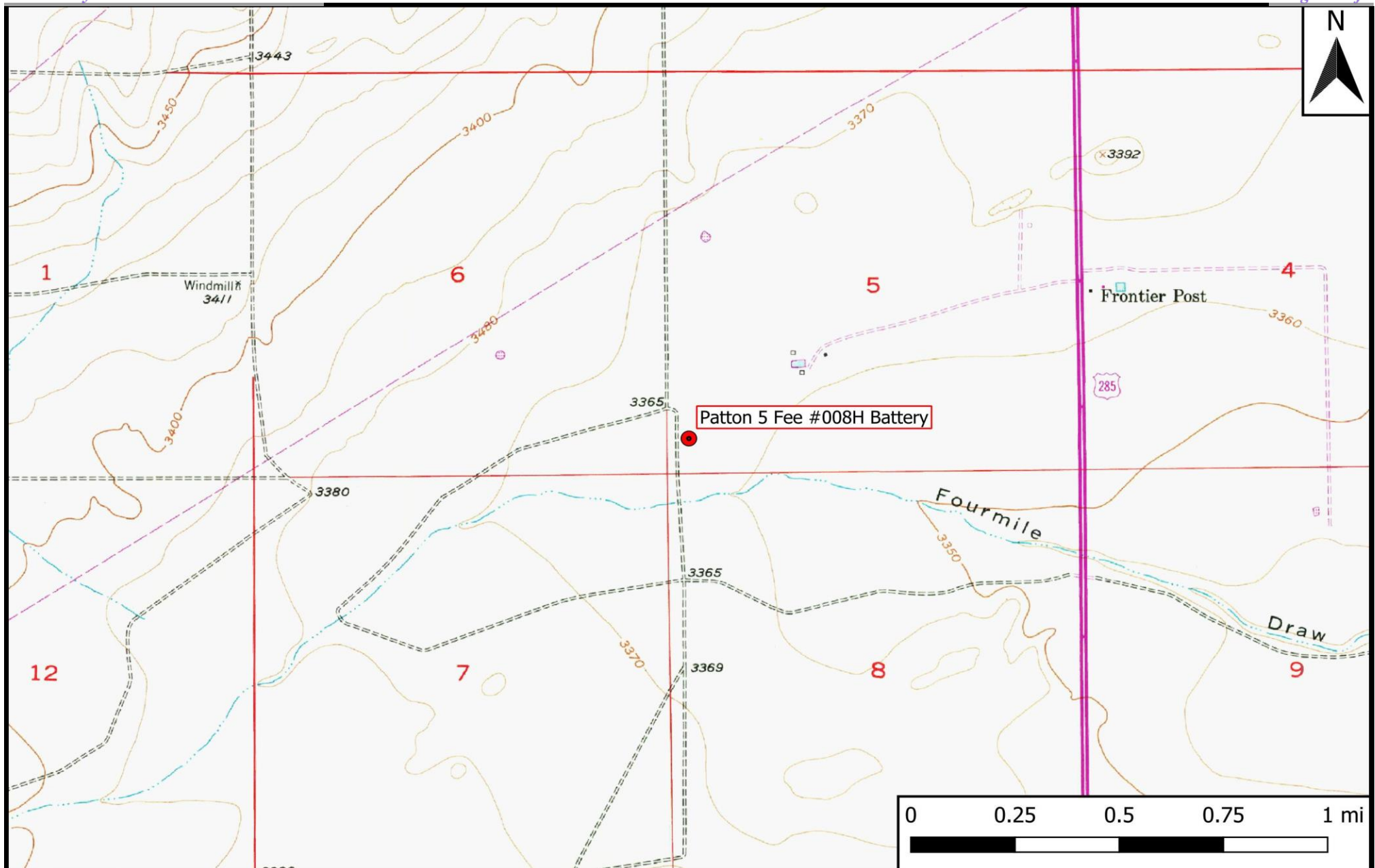
811 S. First Street

Artesia, NM 88210

(Electronic Submission)

Figure 1

Topographic Map

**Legend**

● Site Location

Figure 1

Topographic Map
Spur Energy Partners, LLC
Patton 5 Fee #008H Battery
GPS: 32.683693, -104.411751
Eddy County



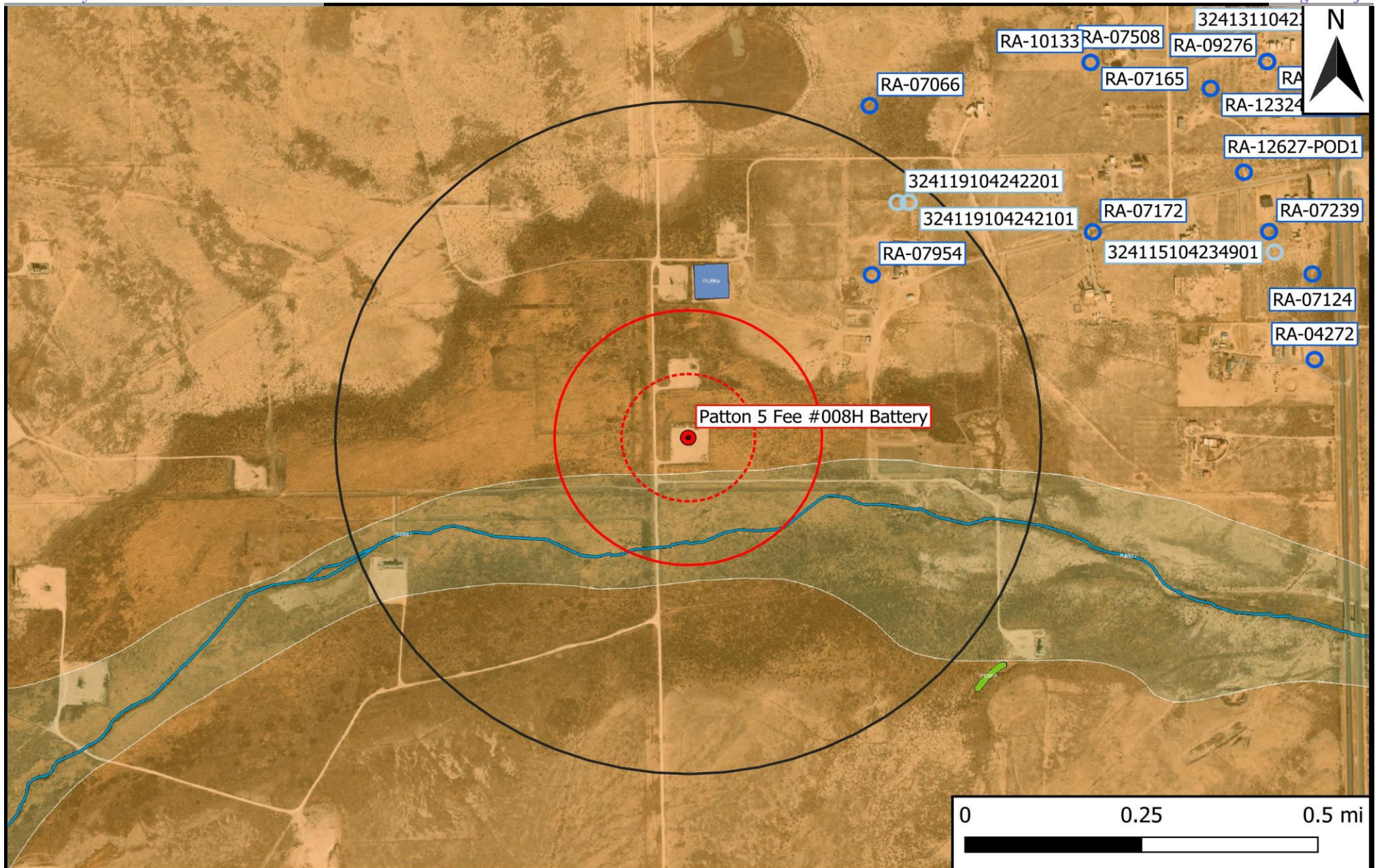
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Checked: jwl

Date: 7/5/23

Figure 2

Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- Potash Mine Workings
- Medium/High Karst
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2

Aerial Proximity Map
 Spur Energy Partners, LLC
 Patton 5 Fee #008H Battery
 GPS: 32.683693, -104.411751
 Eddy County



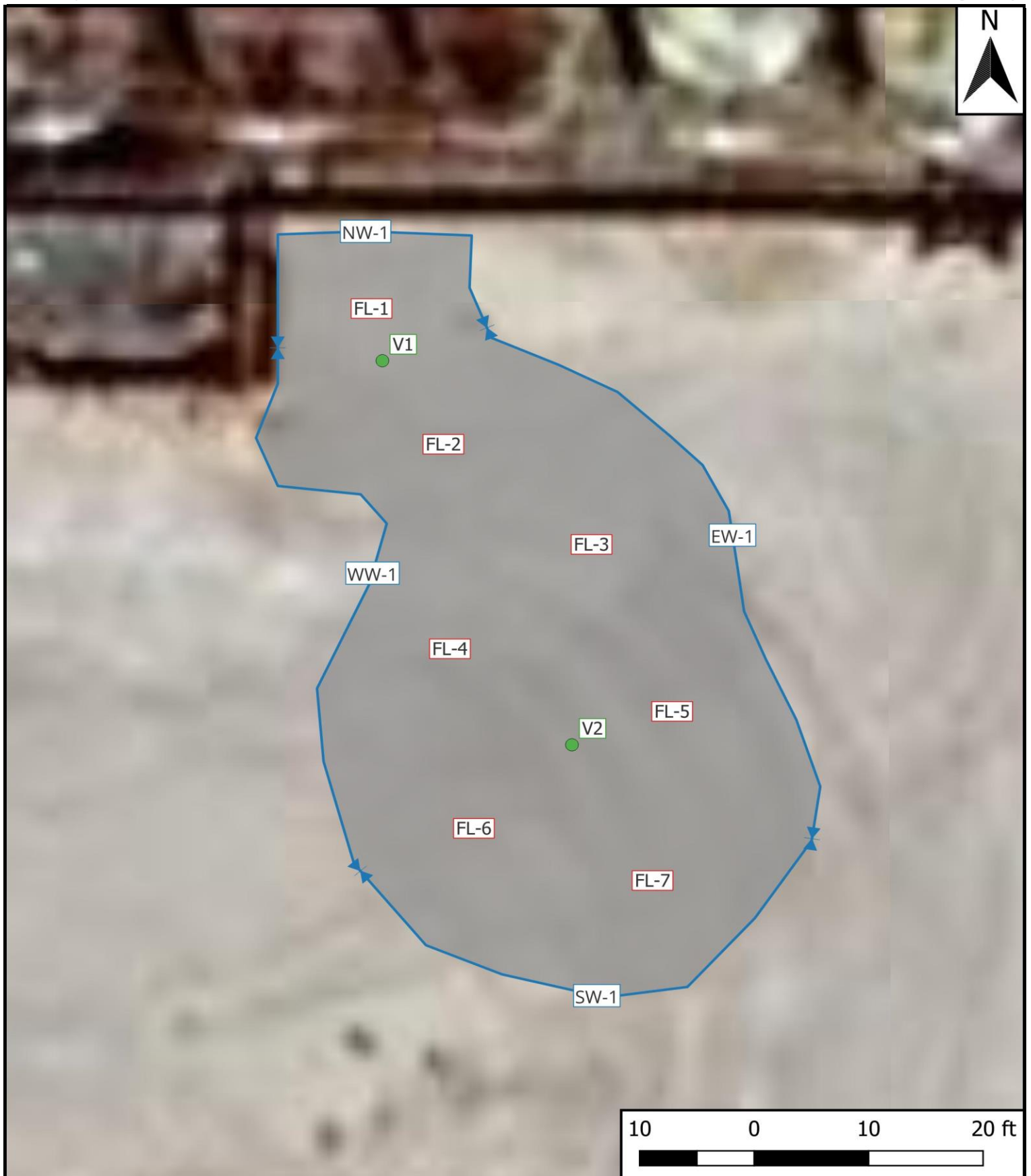
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Date: 7/5/23

Figure 3

Site and Sample Location Map

**Legend**

- Vertical Delineation Sample
- Confirmation Floor Sample
- ↔ Confirmation Wall Sample
- Excavated Area

Figure 3

Site and Sample Location Map
 Spur Energy Partners, LLC
 Patton 5 Fee #008H Battery
 GPS: 32.683693, -104.411751
 Eddy County

eTECH 
 Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: rr

Date: 2/29/24

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Spur Energy Partners, LLC Patton 5 Fee #008H Battery NMOCD Ref. #: nAPP2318130041											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Vertical Delineation Samples											
V 1 @ Surface	7/28/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	35,600
V 1 @ 1'	7/28/2023	1	In Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
V 1 @ 2'	7/28/2023	2	In Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
V 2 @ Surface	7/28/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	33,600
V 2 @ 1'	7/28/2023	1	In Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
V 2 @ 2'	7/28/2023	2	In Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
Horizontal Delineation and Excavation Confirmation Wall Samples											
EW - 1	2/12/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW - 1	2/12/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW - 1	2/12/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW - 1	2/12/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
Excavation Confirmation Floor Samples											
FL - 1 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL - 2 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL - 3 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL - 4 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL - 5 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
FL - 6 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL - 7 @ 1'	2/12/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800

Dash (-): Sample not analyzed for that constituent.

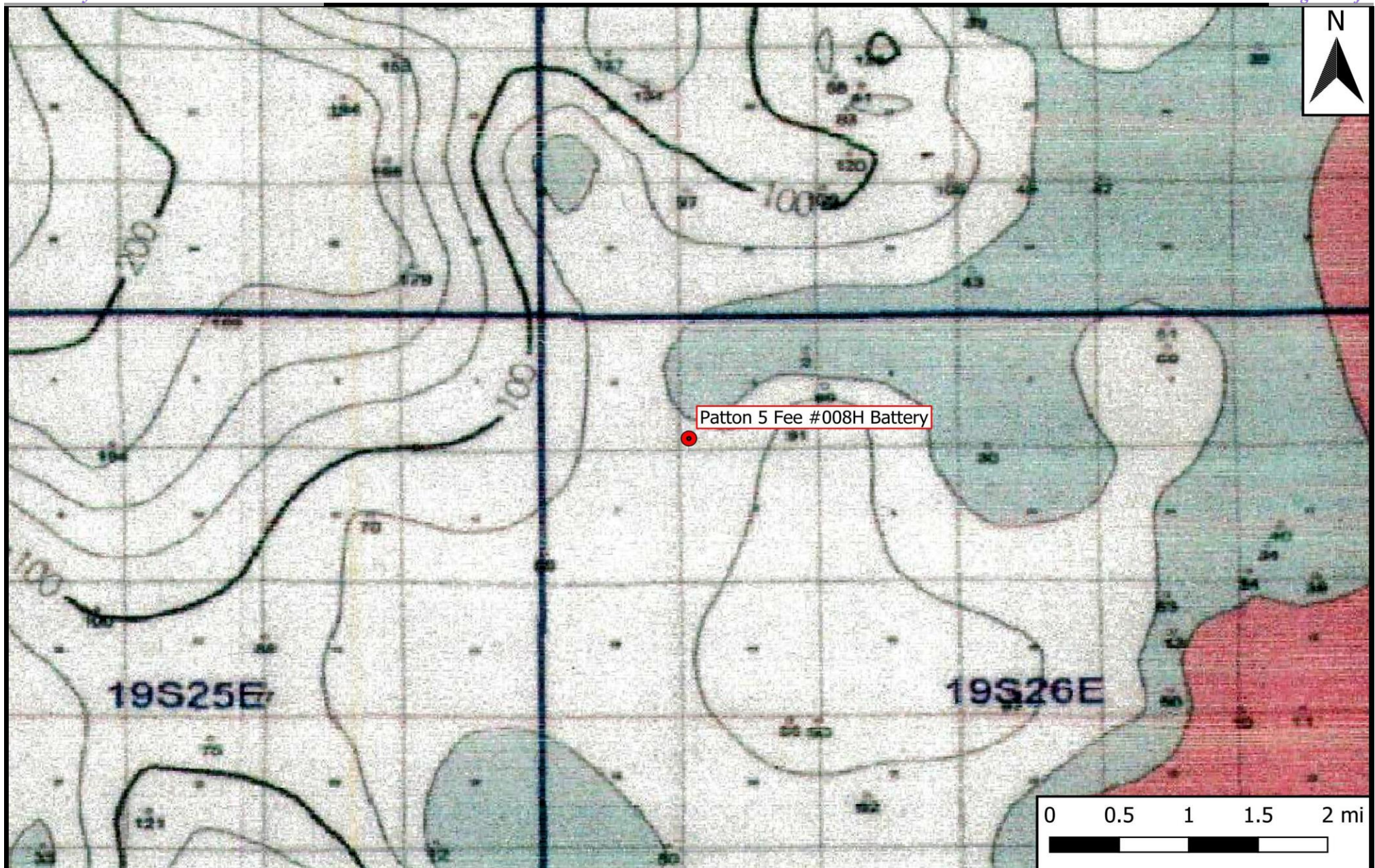
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information

**Legend**

- Site Location

Figure 4


Inferred Depth to Groundwater Trend Map
Spur Energy Partners, LLC
Patton 5 Fee #008H Battery
GPS: 32.683693, -104.411751
Eddy County



Drafted: mag

Checked: jwl

Date: 7/5/23



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column	
RA 07954		RA	ED	3	2	3	05	19S	26E	555566	3616763*		570	290	175	115
													Average Depth to Water:	175 feet		
													Minimum Depth:	175 feet		
													Maximum Depth:	175 feet		

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 555147.42

Northing (Y): 3616374.88

Radius: 804.67

*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

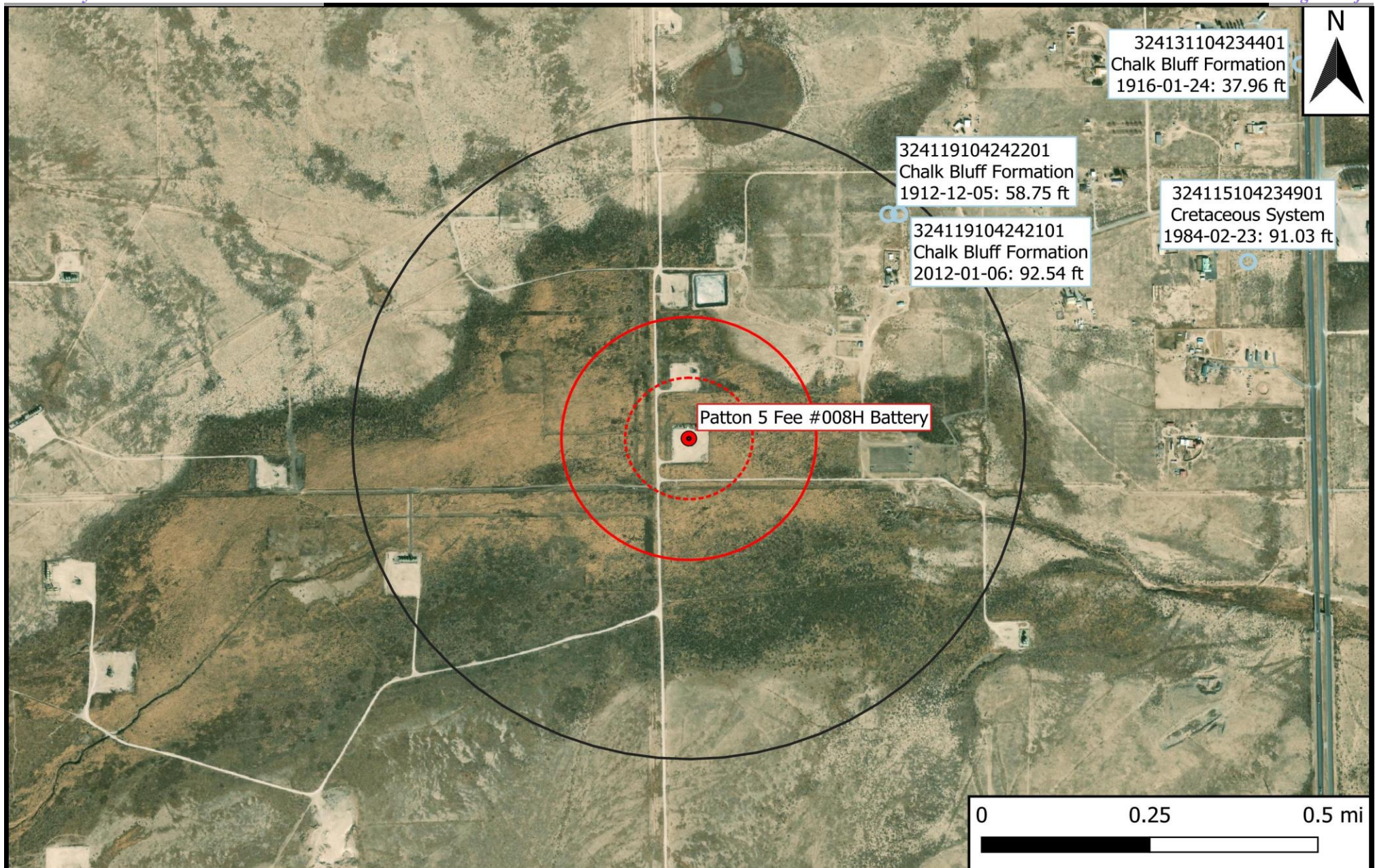
		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 07954	3	2	3	05	19S	26E	555566	3616763*
<hr/>									
Driller License: 1259		Driller Company:		CAMPBELL DRILLING					
Driller Name:		CAMPBELL DRILLING							
Drill Start Date: 09/27/1991		Drill Finish Date:		10/08/1991		Plug Date:			
Log File Date: 10/16/1991		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:		15 GPM	
Casing Size: 7.00		Depth Well:		290 feet		Depth Water:		175 feet	
<hr/>									
Water Bearing Stratifications:		Top	Bottom	Description					
		268	276	Sandstone/Gravel/Conglomerate					
<hr/>									
Casing Perforations:		Top	Bottom						
		230	290						
<hr/>									

*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/TSC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/5/23 9:43 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- ⋯ 500 Ft Radius
- ⬜ 1000 Ft Radius
- ⬜ 0.5 Mi Radius

Figure 5

USGS Well Proximity Map
 Spur Energy Partners, LLC
 Patton 5 Fee #008H Battery
 GPS: 32.683693, -104.411751
 Eddy County



Drafted: mag

Checked: jwl

Date: 7/5/23



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Data Category:

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United States

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Agency code = usgs

site_no list =

- 324119104242101

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USGS 324119104242101 19S.26E.05.323431

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°41'19", Longitude 104°24'21" NAD27

Land-surface elevation 3,365 feet above NAVD88

The depth of the well is 905 feet below land surface.

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

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aquifer.

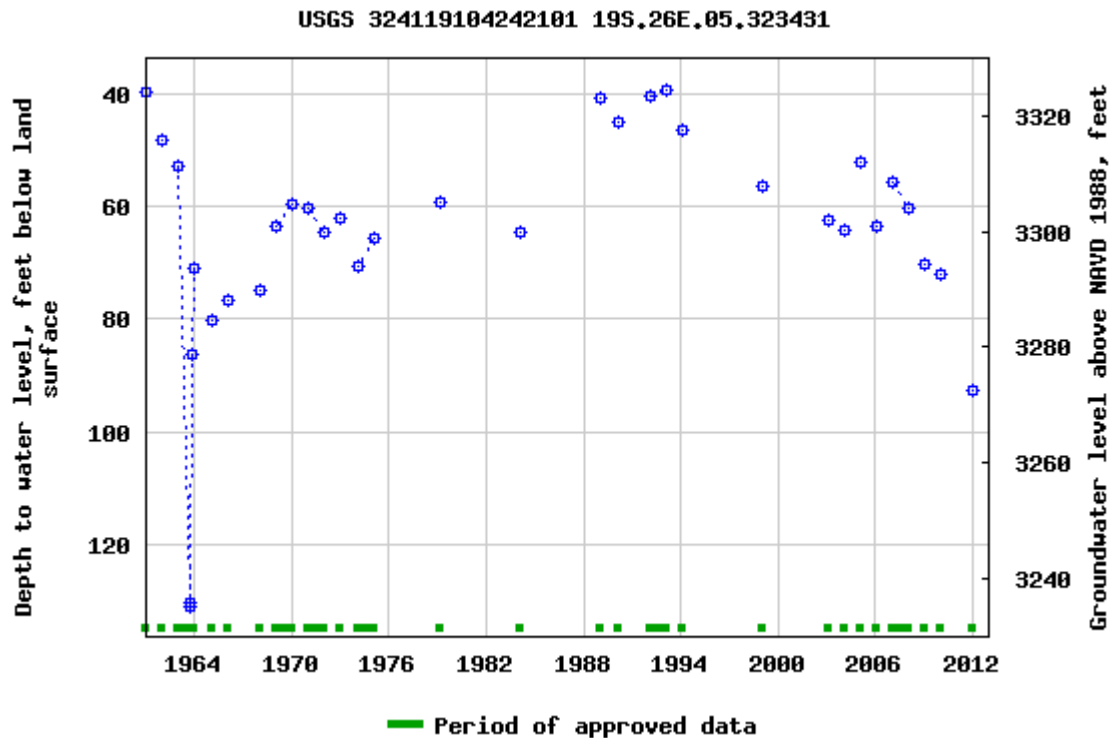
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Breaks in the plot represent a gap of at least one year between field measurements.

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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: 2023-07-05 11:41:35 EDT

0.61 0.51 nadww01



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National Water Information System: Web Interface

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Data Category:

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324119104242201

Minimum number of levels = 1

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USGS 324119104242201 19S.26E.05.32334

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°41'19", Longitude 104°24'22" NAD27

Land-surface elevation 3,366 feet above NAVD88

The depth of the well is 938 feet below land surface.

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

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aquifer.

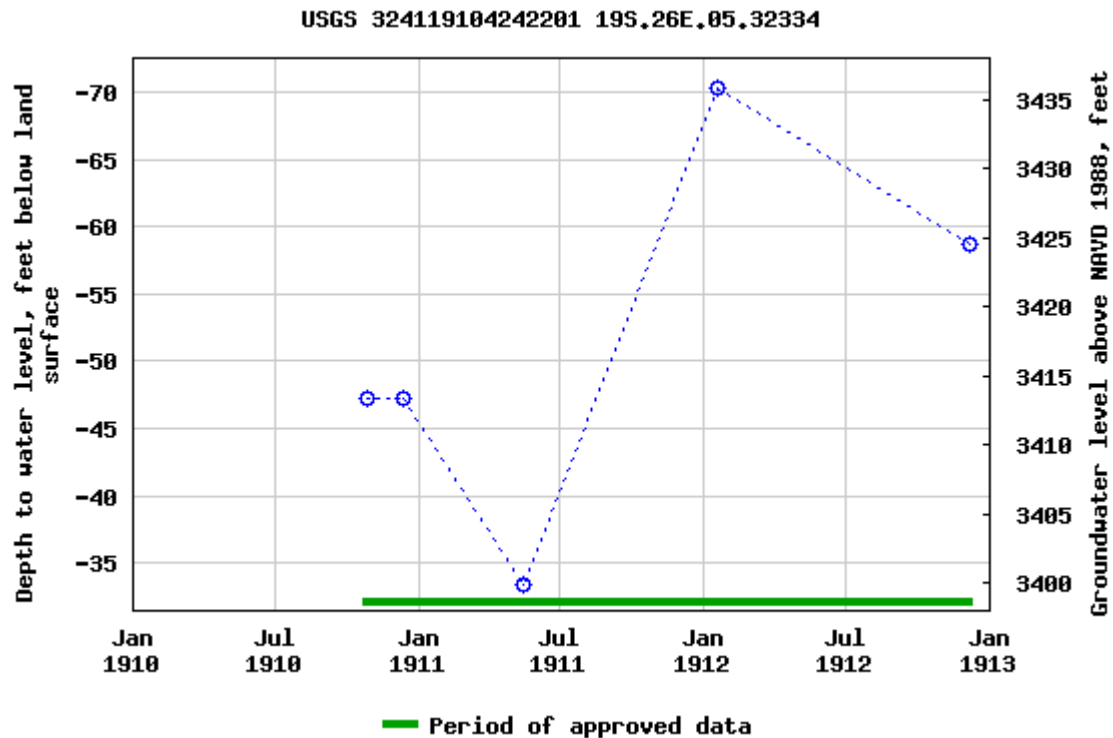
Output formats

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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: 2023-07-05 11:42:03 EDT

0.55 0.49 nadww01

Appendix B

Field Data



Sample Log

Date: _____

Project: Patton 5 Fee #008H Battery

Project Number: 18420 Latitude: 32.683693 Longitude: -104.411751

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East	
GPS Coordinates: 32.68382, -104.41163	
Photo Description: View of impacted area.	

Photo Number: 2	
Photo Direction: West	
GPS Coordinates: 32.68392, -104.41129	
Photo Description: View of fluid inside of containment.	


Photographic Log

Photo Number: 3	
Photo Direction: Southeast	
GPS Coordinates: 32.68392, -104.41124	
Photo Description: View of the broken connection that caused the release.	

Photo Number: 4	 <p>Feb 12, 2024 at 11:11:40 AM +32.683810, -104.411259 277° W 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: West	
Photo Description: View of open excavation.	

Photographic Log

Photo Number: 5	<div>Feb 12, 2024 at 11:12:44 AM +32.683728, -104.411447 333° NW 61 Havenhill Rd Artesia NM 88210 United States</div>  <p>A photograph showing a large, open excavation site in the foreground, with a dirt and gravel surface. In the background, several large, cylindrical industrial storage tanks are visible, along with a metal framework structure. A compass rose in the bottom left corner indicates North is towards the top of the image.</p>
Photo Direction: North-Northwest	
Photo Description: View of open excavation.	

Photo Number: 6	<div>Feb 12, 2024 at 11:12:24 AM +32.683808, -104.411508 32° NE 61 Havenhill Rd Artesia NM 88210 United States</div>  <p>A photograph showing a large, open excavation site in the foreground, with a dirt and gravel surface. In the background, several large, cylindrical industrial storage tanks are visible, along with a metal framework structure. A compass rose in the bottom left corner indicates North is towards the top of the image.</p>
Photo Direction: North-Northeast	
Photo Description: View of open excavation.	

Photographic Log


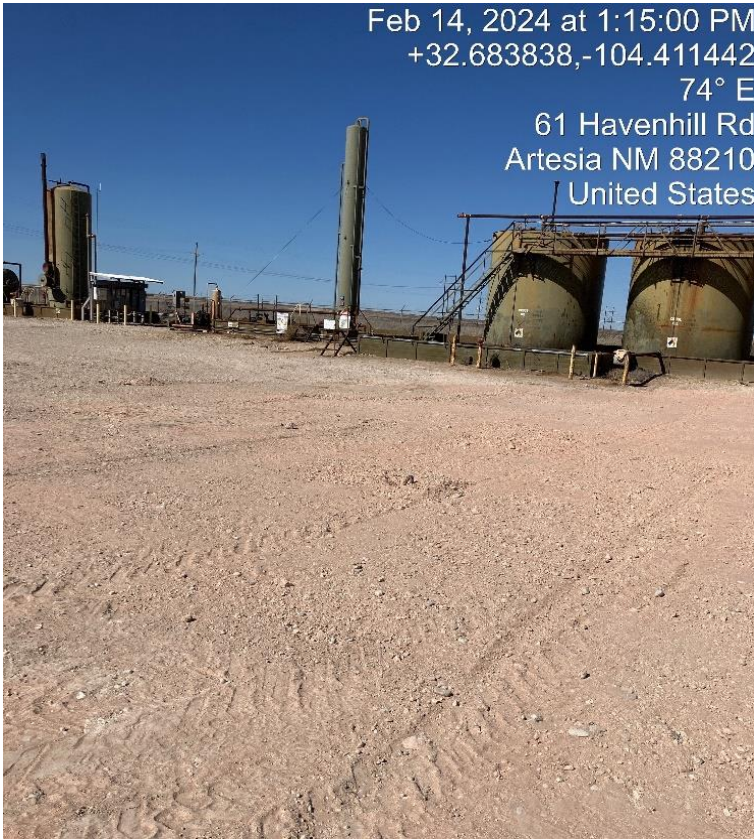
Photo Number: 7	 <p>Feb 12, 2024 at 11:12:06 AM +32.683906, -104.411443 161° S 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: South-Southeast	
Photo Description: View of open excavation.	

Photo Number: 8	 <p>Feb 14, 2024 at 1:15:00 PM +32.683838, -104.411442 74° E 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: North-Northwest	
Photo Description: View of remediated area after backfill and grading.	

Photographic Log

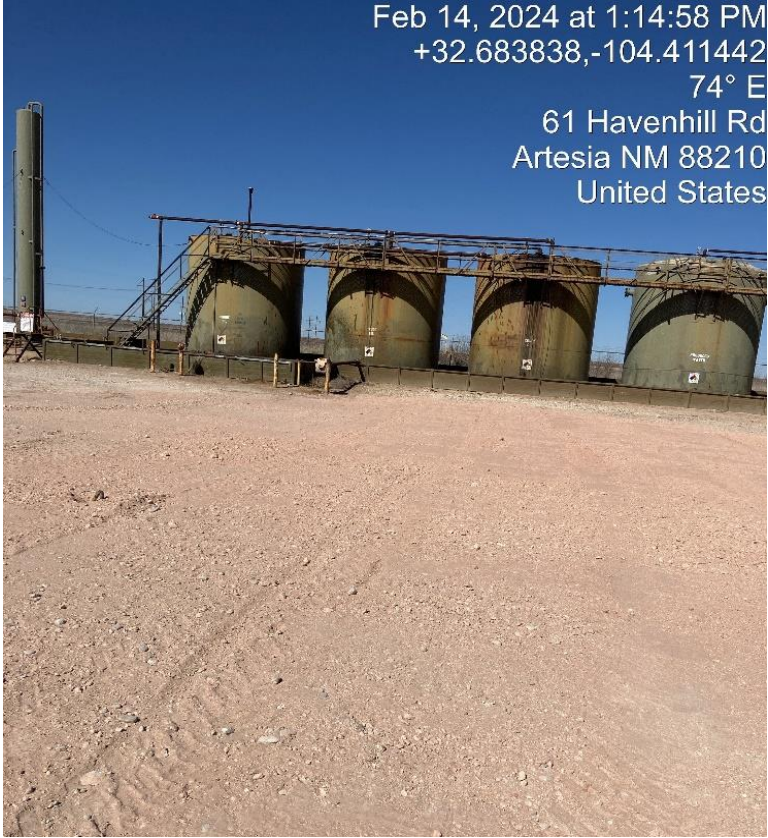
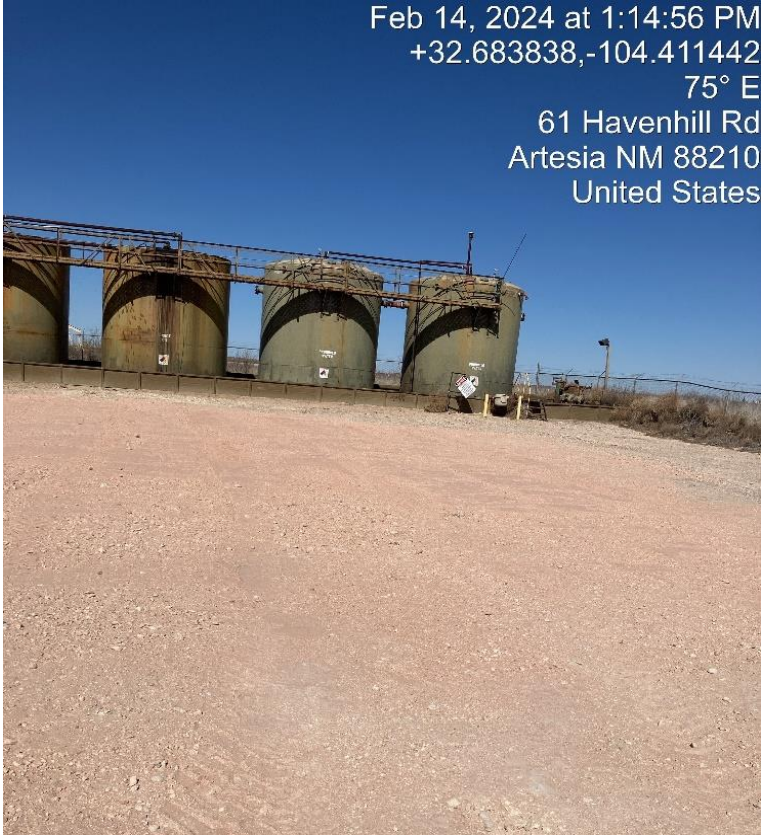
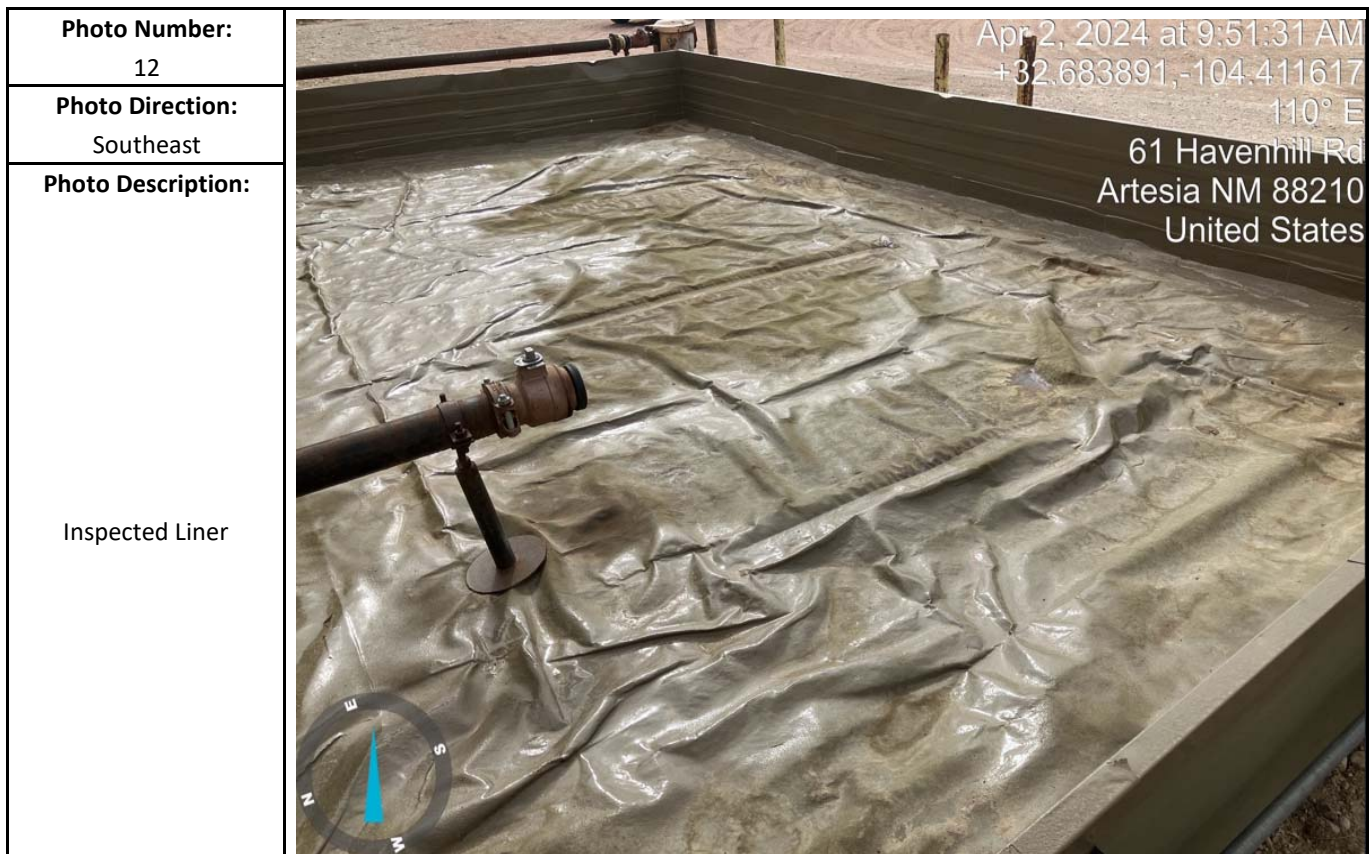
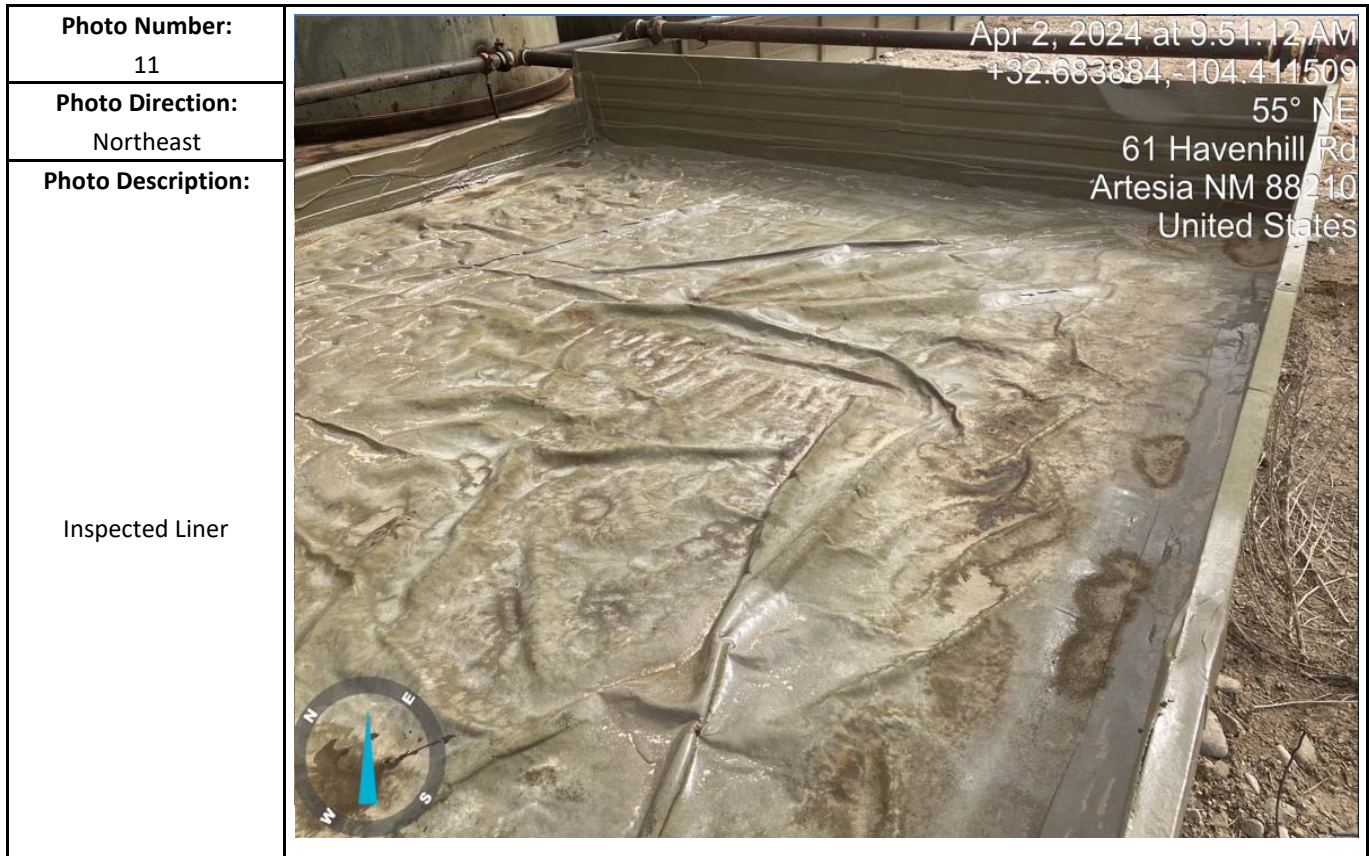
Photo Number: 9	 <p>Feb 14, 2024 at 1:14:58 PM +32.683838,-104.411442 74° E 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: North	
Photo Description: View of remediated area after backfill and grading.	

Photo Number: 10	 <p>Feb 14, 2024 at 1:14:56 PM +32.683838,-104.411442 75° E 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: North	
Photo Description: View of remediated area after backfill and grading.	

Photographic Log



Photographic Log

Photo Number: 13	 <p>Apr 2, 2024 at 9:51:35 AM +32.683891, -104.411617 347° N 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: North	
Photo Description: Inspected Liner	

Photo Number: 14	 <p>Apr 2, 2024 at 9:51:40 AM +32.683891, -104.411617 297° NW 61 Havenhill Rd Artesia NM 88210 United States</p>
Photo Direction: North-Northwest	
Photo Description: Inspected Liner	

Appendix D

Laboratory Analytical Reports



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

August 07, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PATTON 5 FEE #008H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1 @ SURFACE (H234001-01)

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	08/05/2023	ND	1.95	97.6	2.00	3.10	
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	35600	16.0	08/04/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1 @ 1' (H234001-02)

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	08/05/2023	ND	1.95	97.6	2.00	3.10		
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	256	16.0	08/04/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	PATTON 5 FEE #008H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	18420	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: V 1 @ 2' (H234001-03)

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	08/05/2023	ND	1.95	97.6	2.00	3.10		
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	08/04/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 2 @ SURFACE (H234001-04)

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	08/05/2023	ND	1.95	97.6	2.00	3.10	
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	33600	16.0	08/04/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	PATTON 5 FEE #008H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	18420	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: V 2 @ 1' (H234001-05)

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	08/05/2023	ND	1.95	97.6	2.00	3.10		
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	208	16.0	08/04/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	PATTON 5 FEE #008H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	18420	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: V 2 @ 2' (H234001-06)

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	08/05/2023	ND	1.95	97.6	2.00	3.10		
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	112	16.0	08/04/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: E Tech Environmental				BILL TO				ANALYSIS REQUEST														
Project Manager: Zach Corder				P.O. #:																		
Address: 2617 W. Marland				Company: SPUR																		
City: Hobbs State: NM Zip: 88240				Attn: Kathy Purvis																		
Phone #: 575-264-9884 Fax #:				Address:																		
Project #: 8420 Project Owner: SPUR				City:																		
Project Name: Patton S Fee # 0084 Battery				State: Zip:																		
Project Location: Rural Eddy Co., NM				Phone #:																		
Sampler Name: Miguel Ramirez				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME									
H234001	V1 @ surface	1			X					X		7/28/23	12:00	Chlorides	BTEX	TPH						
2	V1 @ 1'	1			X					X			12:10	X	X	X						
3	V1 @ 2'	1			X					X			12:20	X	X	X						
4	V2 @ surface	1			X					X			12:30	X	X	X						
5	V2 @ 1'	1			X					X			12:40	X	X	X						
6	V2 @ 2'	1			X					X		✓	12:50	X	X	X						

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Relinquished By:	Date: 7-28-23	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1440		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: pm @ etechenv.com
	Time:		
Delivered By: (Circle One)	Observed Temp. °C 3.9	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) yo
Sampler - UPS - Bus - Other:	Corrected Temp. °C		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C
			Thermometer ID #113-#1440 Correction Factor -0.6°C TP

FORM-006 R 3.3 07/16/22

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



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

February 14, 2024

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PATTON 5 FEE #008H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/13/24 9:32.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 1 @ 1' (H240662-01)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	176	16.0	02/13/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 54.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 2 @ 1' (H240662-02)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	240	16.0	02/13/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 3 @ 1' (H240662-03)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	224	16.0	02/13/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 4 @ 1' (H240662-04)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	2200	16.0	02/13/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 5 @ 1' (H240662-05)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	656	16.0	02/13/2024	ND	416	104	400	3.77	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 6 @ 1' (H240662-06)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	400	16.0	02/13/2024	ND	400	100	400	3.92	QM-07	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL - 7 @ 1' (H240662-07)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	800	16.0	02/13/2024	ND	400	100	400	3.92	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW - 1 (H240662-08)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTX	<0.300	0.300	02/13/2024	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	176	16.0	02/13/2024	ND	400	100	400	3.92	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW - 1 (H240662-09)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	192	16.0	02/13/2024	ND	400	100	400	3.92	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW - 1 (H240662-10)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	176	16.0	02/13/2024	ND	400	100	400	3.92	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 63.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ZACH CONDER
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/13/2024
 Reported: 02/14/2024
 Project Name: PATTON 5 FEE #008H BATTERY
 Project Number: 18420
 Project Location: SPUR - EDDY CO NM

Sampling Date: 02/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 1 (H240662-11)

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	02/13/2024	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	02/13/2024	ND	2.09	104	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	2.39	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.01	100	6.00	2.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	240	16.0	02/13/2024	ND	400	100	400	3.92	

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	02/13/2024	ND	199	99.5	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	200	100	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																	
Address: 2617 W Marland				Company: Spur Energy Partners																					
City: Hobbs State: NM Zip: 88240				Attn: Kathy Purvis																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: 18420 Project Owner: Spur Energy Partners				City:																					
Project Name: Patton 5 Fee #008H Battery				State: NM Zip:																					
Project Location: 32.683693, -104.411751				Phone #:																					
Sampler Name: Martin Sepulveda				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D. H240662		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE TIME															
1	FL-1 @ 1'	C	1		X				X	2/12/24		X	X	X											
2	FL-2 @ 1'	C	1		X				X	2/12/24		X	X	X											
3	FL-3 @ 1'	C	1		X				X	2/12/24		X	X	X											
4	FL-4 @ 1'	C	1		X				X	2/12/24		X	X	X											
5	FL-5 @ 1'	C	1		X				X	2/12/24		X	X	X											
6	FL-6 @ 1'	C	1		X				X	2/12/24		X	X	X											
7	FL-7 @ 1'	C	1		X				X	2/12/24		X	X	X											
8	NW-1	C	1		X				X	2/12/24		X	X	X											
9	EW-1	C	1		X				X	2/12/24		X	X	X											
10	WW-1	C	1		X				X	2/12/24		X	X	X											
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																									
Relinquished By: 		Date: 2/13/24 Time: 9:32		Received By: 		Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS: <div style="font-size: 2em; color: red; text-align: center;">RUSIA Samples</div> Please email results and copy of CoC to pm@etechenv.com.													
Relinquished By: 		Date: Time:		Received By: 		Date: Time:		Sample Condition: Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 															
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		-7.40C #1140																							

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Appendix E

Regulatory Correspondence

Matthew A. Grieco

From: OCDOnline@state.nm.us
Sent: Thursday, February 8, 2024 12:40 PM
To: Robbie Runnels
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 312687

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

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

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2318130041.

The liner inspection is expected to take place:

When: 02/13/2024 @ 08:00

Where: M-05-19S-26E 0 FNL 0 FEL (32.68369,-104.41175)

Additional Information: Liner will be inspected after it has been sprayed and repaired.

Additional Instructions: From the intersection of US-285 and Co Rd 21 (GPS: 32.655944, -104.395618) head W on Co Rd 21 for 0.59 mi, then N for 0.94 mi, then W for 0.30 mi, then N for 0.99 mi, then E for 0.02 mi, then NE for 0.04 mi to arrive at the Patton 5 Fee 8H Battery pad (GPS: 32.683693, -104.411751).

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

Matthew A. Grieco

From: OCDOnline@state.nm.us
Sent: Thursday, February 8, 2024 12:44 PM
To: Robbie Runnels
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 312694

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2318130041.

The sampling event is expected to take place:

When: 02/12/2024 @ 08:00

Where: M-05-19S-26E 0 FNL 0 FEL (32.68369,-104.41175)

Additional Information: Sampler will be Martin Sepulveda - 432-305-7322, martin@etechenv.com

Additional Instructions: From the intersection of US-285 and Co Rd 21 (GPS: 32.655944, -104.395618) head W on Co Rd 21 for 0.59 mi, then N for 0.94 mi, then W for 0.30 mi, then N for 0.99 mi, then E for 0.02 mi, then NE for 0.04 mi to arrive at the Patton 5 Fee 8H Battery pad (GPS: 32.683693, -104.411751).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. 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 sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples 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

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Thursday, March 28, 2024 6:16 AM
To: Robbie Runnels
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 327555

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

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2318130041.

The liner inspection is expected to take place:

When: 04/02/2024 @ 08:00

Where: M-05-19S-26E 0 FNL 0 FEL (32.68369,-104.41175)

Additional Information: Robbie Runnels robbie@etechenv.com 432-282-9143

Additional Instructions: From the intersection of US-285 and Co Rd 21 (GPS: 32.655944, -104.395618) head W on Co Rd 21 for 0.59 mi, then N for 0.94 mi, then W for 0.30 mi, then N for 0.99 mi, then E for 0.02 mi, then NE for 0.04 mi to arrive at the Patton 5 Fee 8H Battery pad (GPS: 32.683693, -104.411751).

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

Appendix F

Electronic C-141 Supplemental Site Characterization Maps

-
- Layer List
- Permian Basin Karst Areas

...

BLM Oil Gas Leases Case Disp

...

BLM Oil Gas Leases Production Status

...

BLM Fluid Minerals Case

...

BLM FM Agreements Case Disp

...

BLM FM Agreements Production Status

...

BLM FM Participating Areas Case Disp

...

NM SLO Oil and Gas Leases

...

NM SLO Participating Area and Unit Agreement Boundaries

...

Political Boundaries and Transportation

...

Mineral and Surface Ownership

...

Hydrology

...

NMED Drinking Water Systems

...

OSE Streams

...

OSE Probable Playas

...

OSW Water Bodys

...

OCD Districts

...

NM Oil and Gas Production Areas

...

Public Land Survey System (PLSS)

...

32.683693, -104.411751

Show search results for 32.683...

Measurement

Feet

Measurement Result

789.2 Feet

Clear

Press CTRL to enable snapping

100m

300ft

-104.41440 32.68361 Degrees

Layer List

▶

Permian Basin Karst Areas

...

▶

BLM Oil Gas Leases Case Disp

...

▶

BLM Oil Gas Leases Production Status

...

▶

BLM Fluid Minerals Case

...

▶

BLM FM Agreements Case Disp

...

▶

BLM FM Agreements Production Status

...

▶

BLM FM Participating Areas Case Disp

...

▶

NM SLO Oil and Gas Leases

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▶

NM SLO Participating Area and Unit Agreement Boundaries

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▶

Political Boundaries and Transportation

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▶

Mineral and Surface Ownership

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▼

✓

Hydrology

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▼

✓

NMED Drinking Water Systems

...

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✓

OSE Streams

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✓

OSE Probable Playas

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▼

✓

OSW Water Bodys

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▶

OCD Districts

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NM Oil and Gas Production Areas

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▶

Public Land Survey System (PLSS)

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32.683693, -104.411751

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Show search results for 32.683...



Measurement

Feet

Measurement Result

1,517.2 Feet

Clear

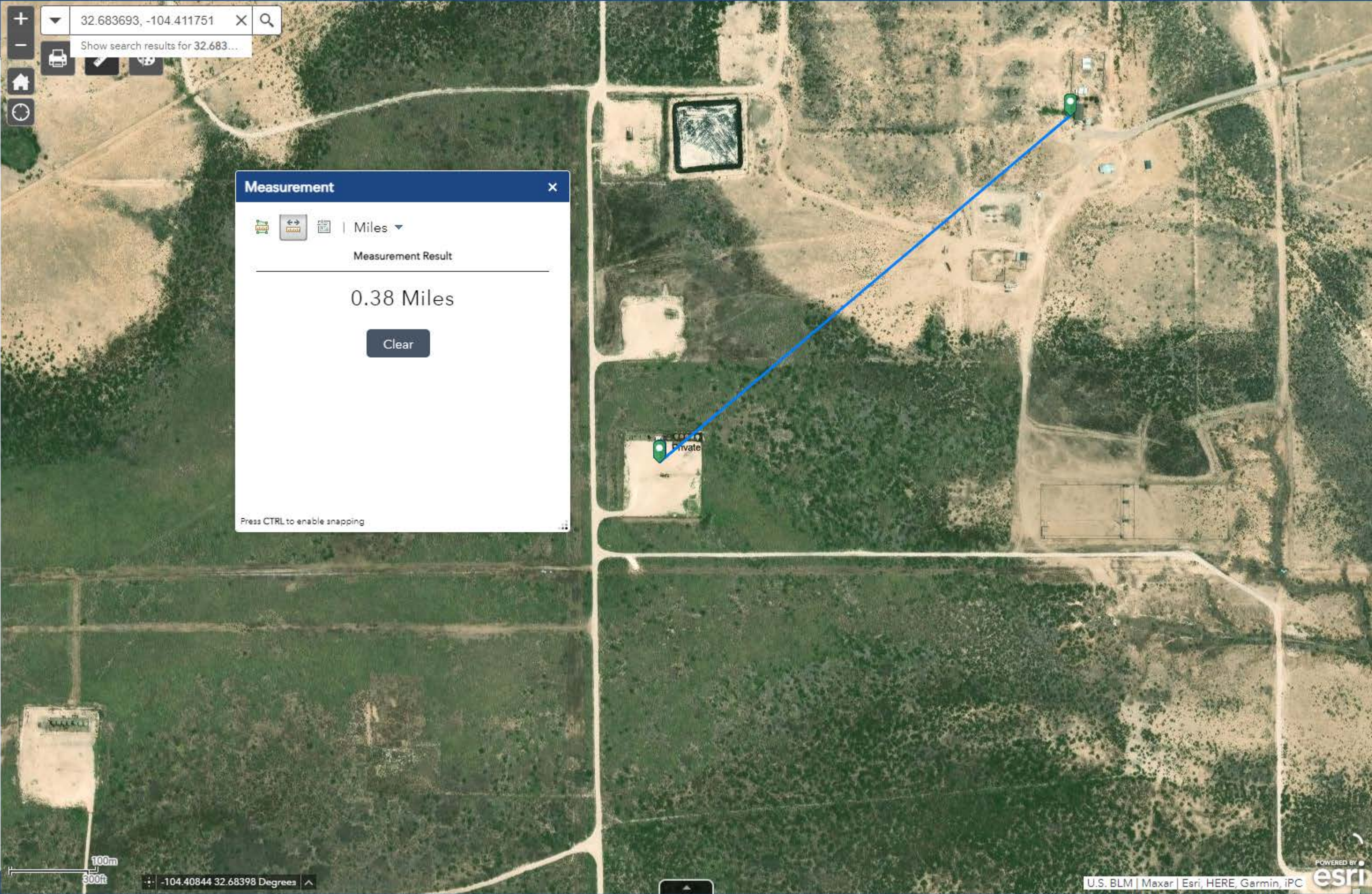
Press CTRL to enable snapping





Layer List

- ☐ BLM FM Agreements Case Disp ...
- ☐ BLM FM Agreements Production Status ...
- ☐ BLM FM Participating Areas Case Disp ...
- ☐ NM SLO Oil and Gas Leases ...
- ☐ NM SLO Participating Area and Unit Agreement Boundaries ...
- ☐ Political Boundaries and Transportation ...
- ☒ Mineral and Surface Ownership ...
 - ☒ Land Ownership ...
 - BLM
 - BOR
 - DOD
 - DOE
 - FS
 - FWS
 - I
 - NPS
 - P
 - S
 - SGF
 - SP
 - USDA
 - VCNP
 - ☐ Mineral Ownership ...
- ☐ Hydrology ...
- ☐ OCD Districts ...
- ☐ NM Oil and Gas Production Areas ...
- ☐ Public Land Survey System (PLSS) ...



Measurement [X]

[Icons] | Miles ▾

Measurement Result

0.38 Miles

Clear

Press CTRL to enable snapping



Layer List

Layers

☒ OSE Water PODs

☐ M2.5+ Earthquakes (USGS 30-day)

☐ NM Oil and Gas Wells

☒ USGS Groundwater wells

☒ USGS Active Monitoring GW Wells

☒ USGS Historical GW Wells

☐ Induced Seismicity Area

☐ Permian Basin Karst Areas

☐ BLM Oil Gas Leases Case Disp

☐ BLM Oil Gas Leases Production Status

☐ BLM Fluid Minerals Case

☐ BLM FM Agreements Case Disp

☐ BLM FM Agreements Production Status

☐ BLM FM Participating Areas Case Disp

☐ NM SLO Oil and Gas Leases

☐ NM SLO Participating Area and Unit Agreement Boundaries

☐ Political Boundaries and Transportation

☐ Mineral and Surface Ownership

☐ Hydrology

32.683693, -104.411751

Show search results for 32.683...

Measurement

Miles

Measurement Result

0.56 Miles

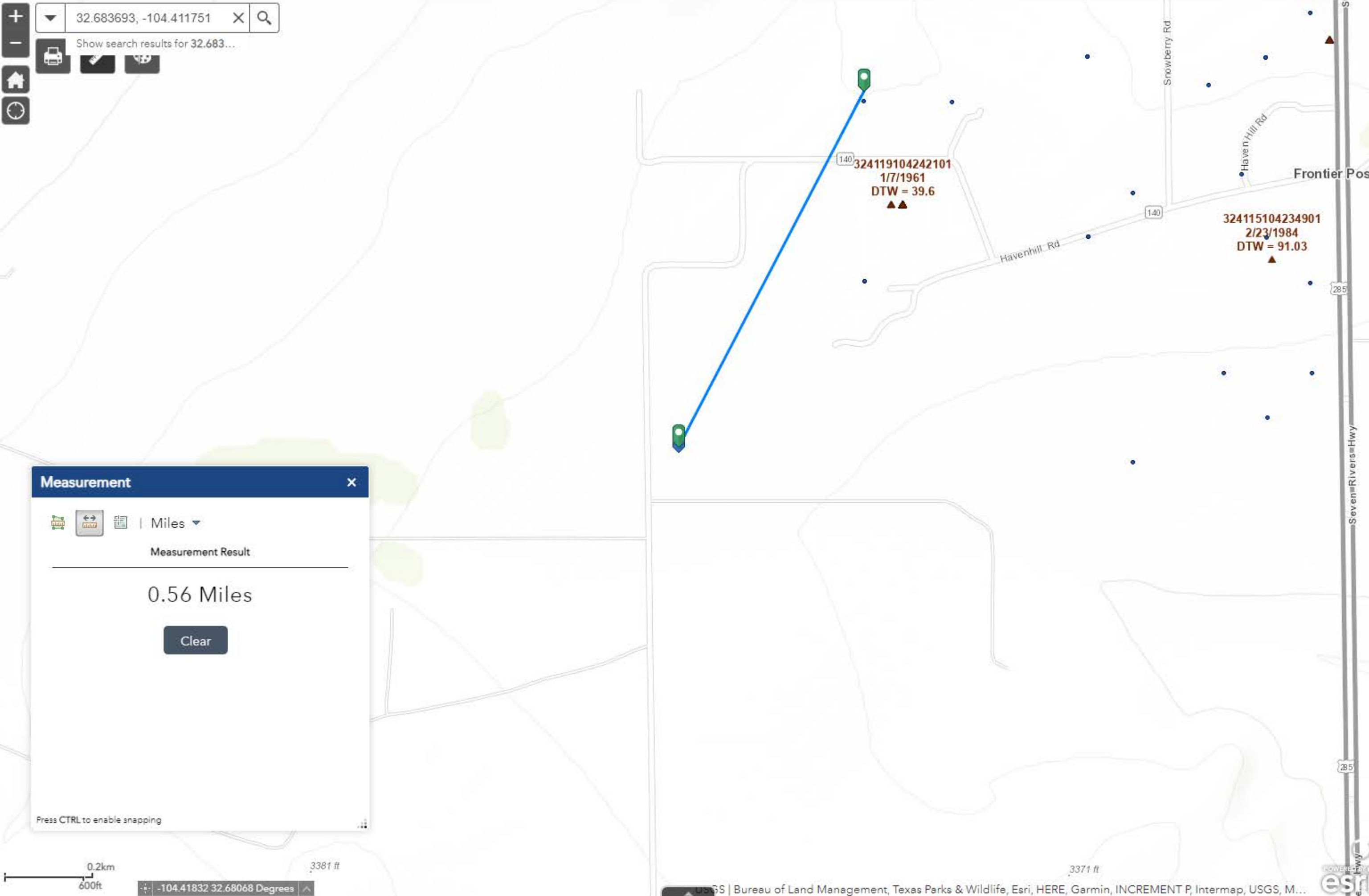
Clear

Press CTRL to enable snapping

0.2km

600ft

-104.41832 32.68068 Degrees



Layer List

Layers

☒ OSE Water PODs

☐ M2.5+ Earthquakes (USGS 30-day)

☐ NM Oil and Gas Wells

☒ USGS Groundwater wells

☒ USGS Active Monitoring GW Wells

☒ USGS Historical GW Wells

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☐ BLM Oil Gas Leases Case Disp

☐ BLM Oil Gas Leases Production Status

☐ BLM Fluid Minerals Case

☐ BLM FM Agreements Case Disp

☐ BLM FM Agreements Production Status

☐ BLM FM Participating Areas Case Disp

☐ NM SLO Oil and Gas Leases

☐ NM SLO Participating Area and Unit Agreement Boundaries

☐ Political Boundaries and Transportation

☐ Mineral and Surface Ownership

☐ Hydrology

32.683693, -104.411751

Show search results for 32.683...

Measurement

Miles

Measurement Result

0.35 Miles

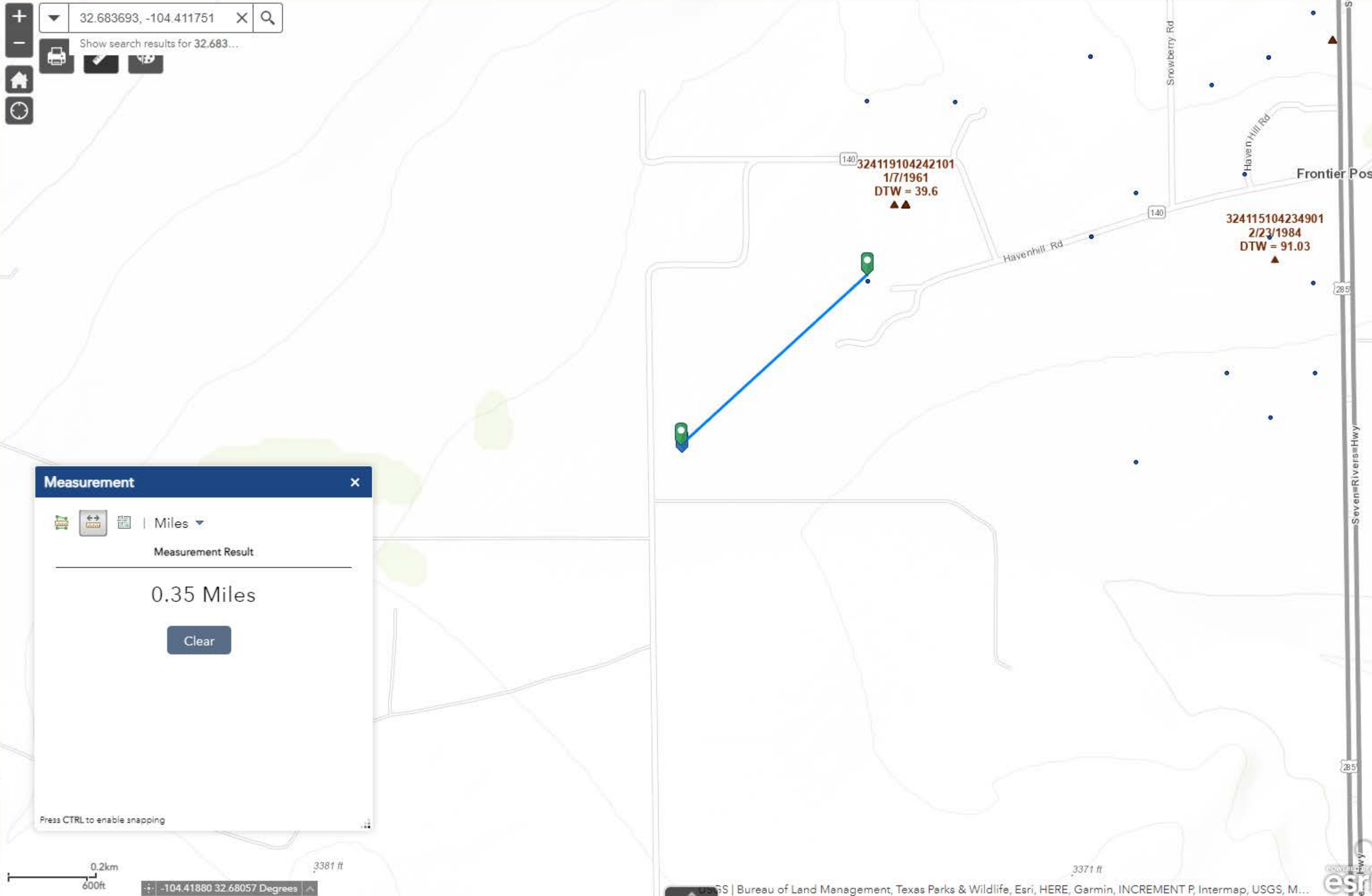
Clear

Press CTRL to enable snapping

0.2km

600ft

-104.41880 32.68057 Degrees





Layer List

- ☐ Permian Basin Karst Areas ...
- ☐ BLM Oil Gas Leases Case Disp ...
- ☐ BLM Oil Gas Leases Production Status ...
- ☐ BLM Fluid Minerals Case ...
- ☐ BLM FM Agreements Case Disp ...
- ☐ BLM FM Agreements Production Status ...
- ☐ BLM FM Participating Areas Case Disp ...
- ☐ NM SLO Oil and Gas Leases ...
- ☐ NM SLO Participating Area and Unit Agreement Boundaries ...
- ☒ Political Boundaries and Transportation ...
- ☒ NMDOT Railroads ...
- ☒ NMDOT GPS ROADS ...
- ☒ New Mexico Towns ...
- ☒ New Mexico Counties ...
- ☐ Mineral and Surface Ownership ...
- ☐ Hydrology ...
- ☐ OCD Districts ...
- ☐ NM Oil and Gas Production Areas ...
- ☐ Public Land Survey System (PLSS) ...

32.683693, -104.411751

Show search results for 32.683...

Icons: Home, Print, Measure, Full Screen

Measurement

Icons: Measure, Undo, Redo, Print, Full Screen

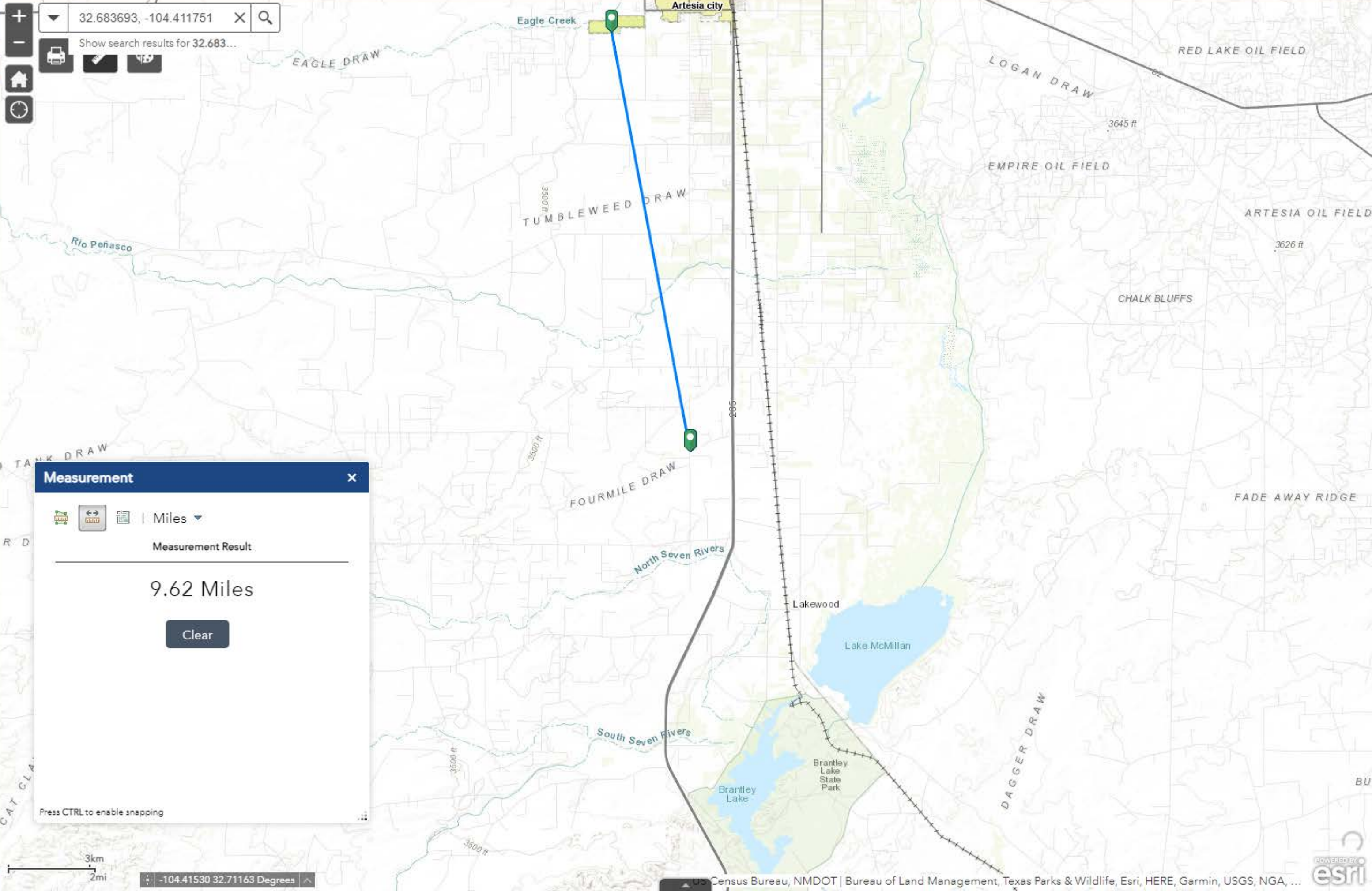
Miles

Measurement Result

9.62 Miles

Clear

Press CTRL to enable snapping



BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☒ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure



Miles

Measurement Result

0.14 Miles

LEGEND

Wetlands

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

Riparian

- Forested/Shrub
- Herbaceous

1:4,514
32.688 | -104.410



Layer List

Layers

- ☒ Registered Mines
- ☒ Aggregate, Stone etc.

☒ Coal

☒ Gypsum

☒ Humate

☒ Industrial Minerals (Other)

☒ Metals

☒ Perlite

☒ Potash

☒ Pumice

☒ Red Dog, Scoria

☒ Salt

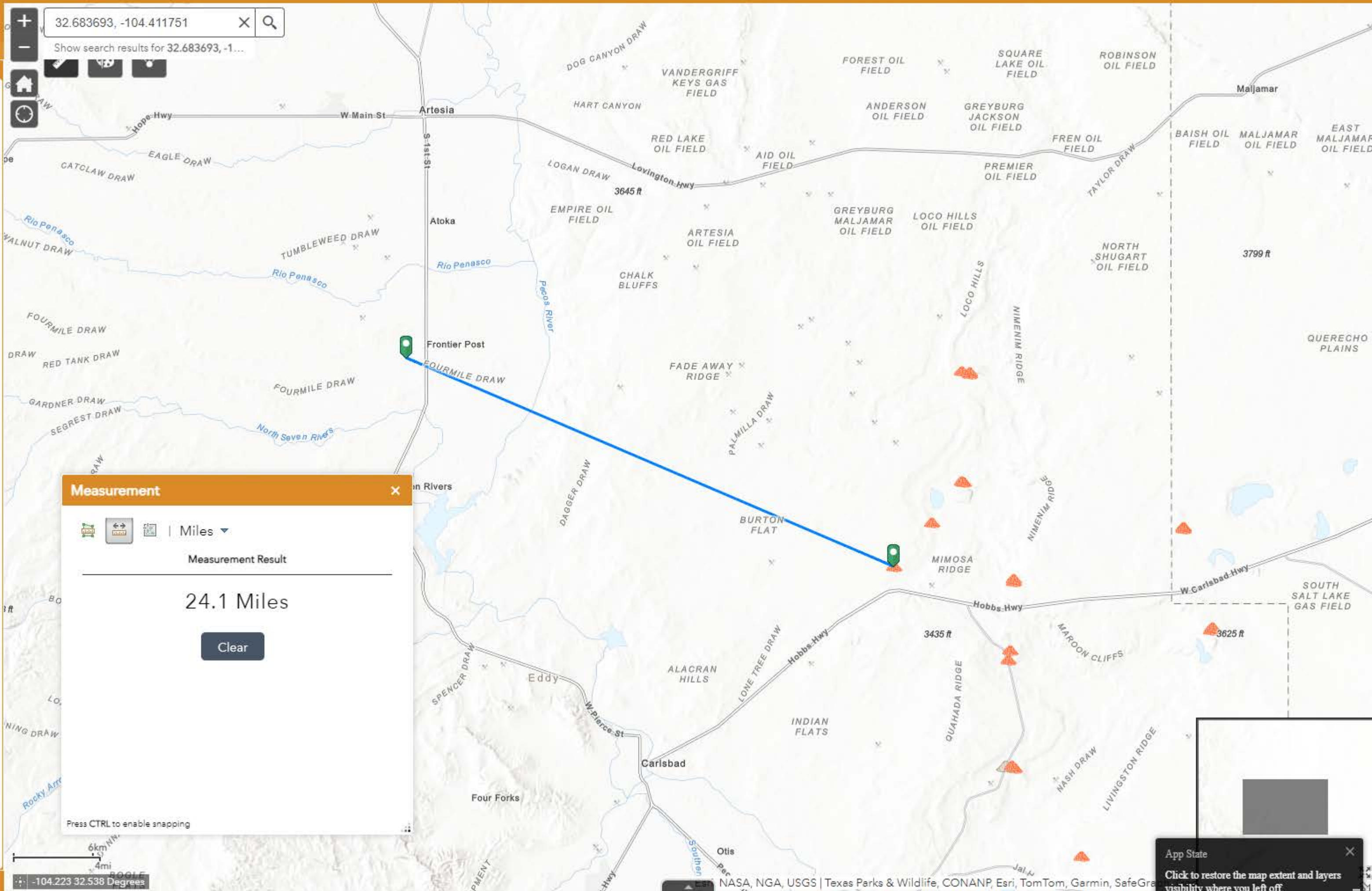
☒ Uranium

☒ Zeolites
- ☐ Mineral_and_Surface_Ownership
- ☒ Land Ownership
- ☐ Mineral Ownership
- ☐ Public Land Survey System (PLSS)

☒ PLSS Townships

☒ PLSS First Division

☒ PLSS Second Division



Measurement

Miles

Measurement Result

24.1 Miles

Clear

Press CTRL to enable snapping

App State

Click to restore the map extent and layers visibility where you left off.

Layer List

Layers

☐ OSE Water PODs

...

☐ M2.5+ Earthquakes (USGS 30-day)

...

☐ NM Oil and Gas Wells

...

☐ USGS Groundwater wells

...

☐ Induced Seismicity Area

...

☒ Permian Basin Karst Areas

...

☒ Critical Karst Resource Area

...

☒ Karst Occurrence Potential

...

High

Medium

Low

☐ BLM Oil Gas Leases Case Disp

...

☐ BLM Oil Gas Leases Production Status

...

☐ BLM Fluid Minerals Case

...

☐ BLM FM Agreements Case Disp

...

☐ BLM FM Agreements Production Status

...

☐ BLM FM Participating Areas Case Disp

...

☐ NM SLO Oil and Gas Leases

...

☐ NM SLO Participating Area and Unit Agreement Boundaries

...

☐ Political Boundaries and Transportation

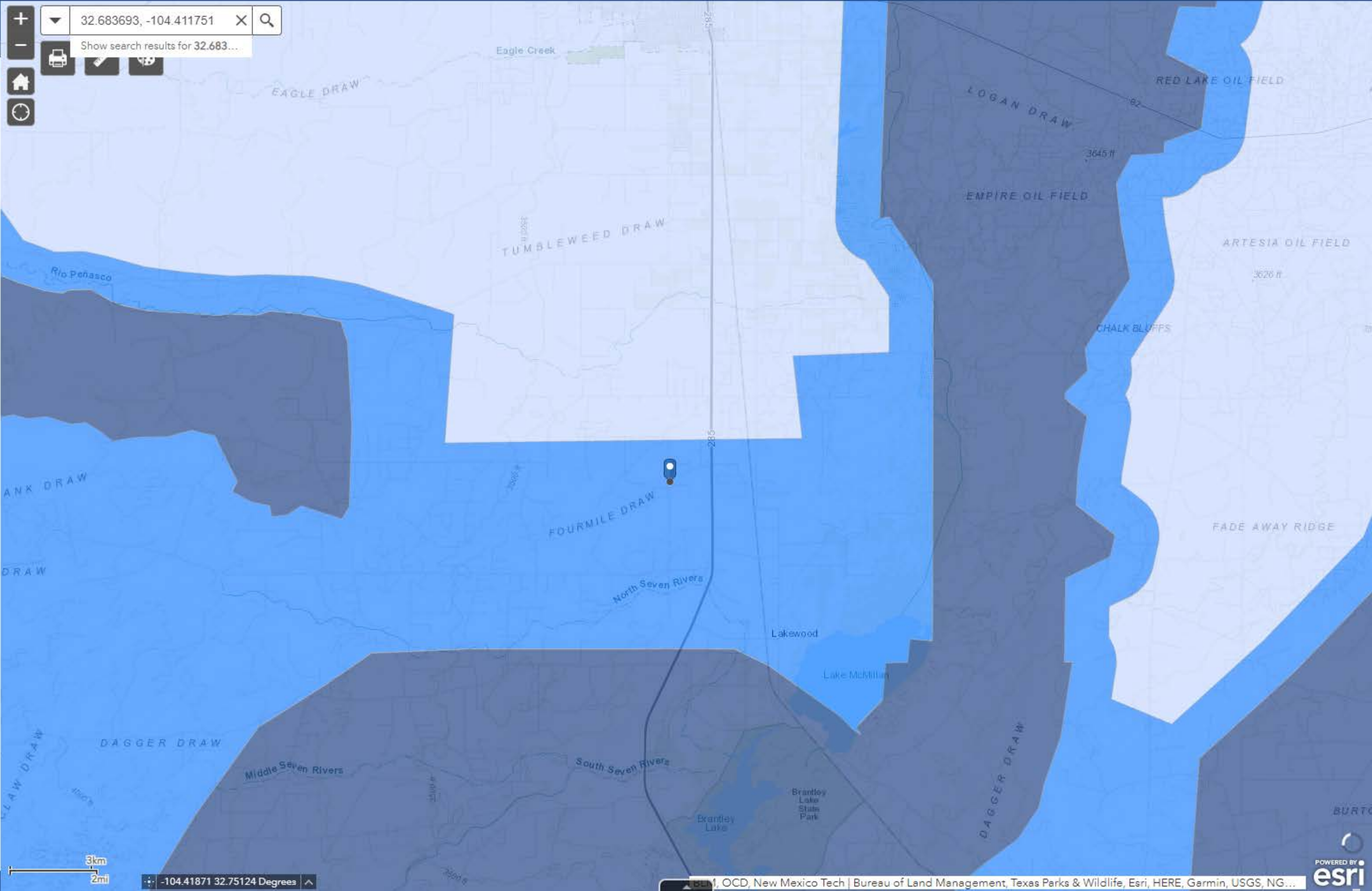
...

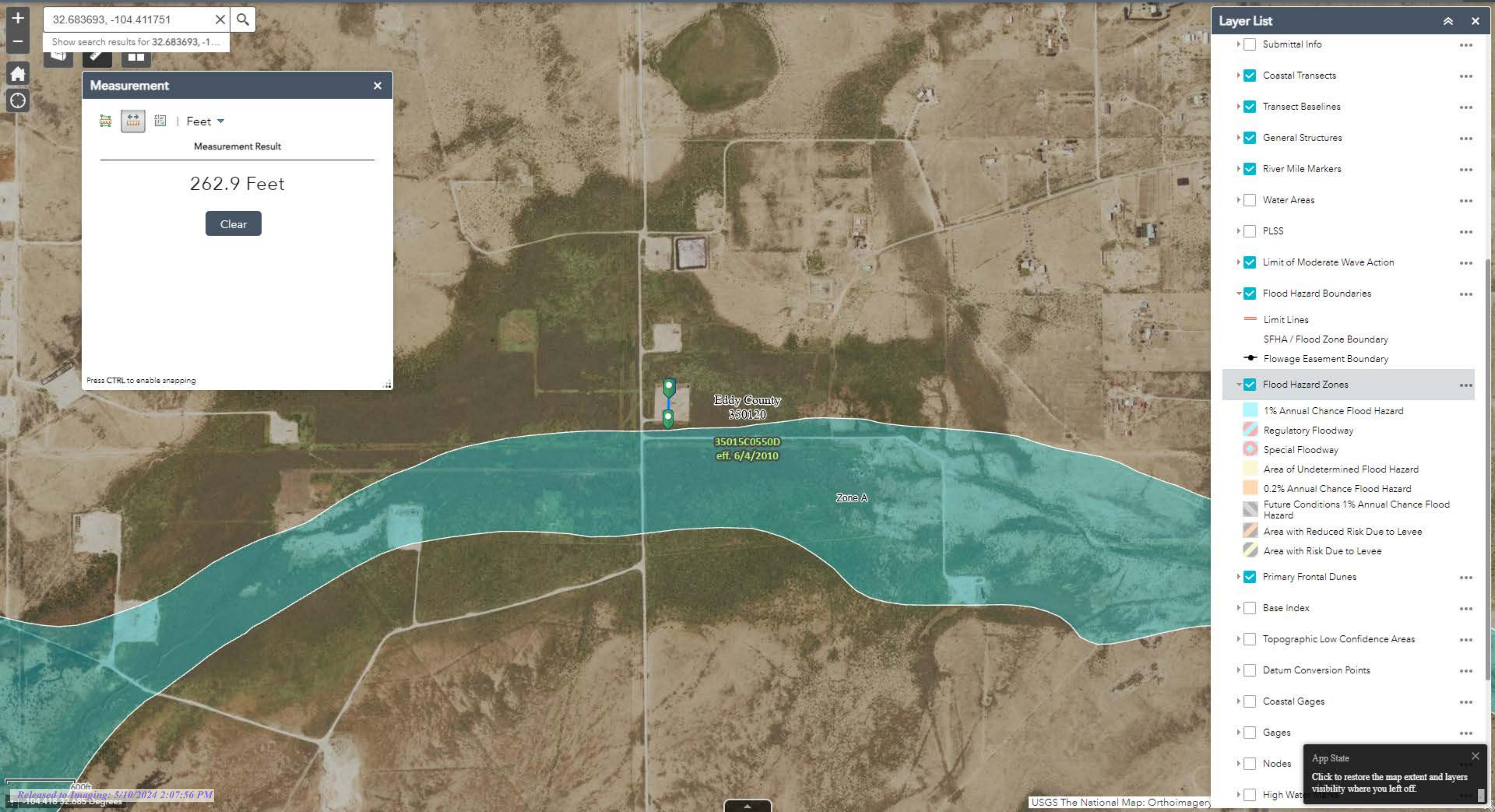
☐ Mineral and Surface Ownership

...

☐ Hydrology

...





Released to Imaging: 5/10/2024 2:07:56 PM

104.418 32.685 Degrees

USGS The National Map: Orthoimagery

Appendix G

Liner Integrity Inspection Report



Liner Integrity Inspection Report

Company: _____ Spur Energy _____

Site Name: _____ Patton 5 Fee 008H Battery _____

Project #: _____ Inspection Tech: _____ Robbie Runnels _____

Date: _____ 04/02/2024 _____

Visual Inspection

Type of Secondary Containment				Containment Status			
Earthen	<input type="checkbox"/>	Cement	<input type="checkbox"/>	Free Fluid	<input type="checkbox"/>	Traces of Leak Inside	<input type="checkbox"/>
Lined	<input checked="" type="checkbox"/>	Coated Fabrics/Laminates	<input type="checkbox"/>	Intermittent Pooling	<input type="checkbox"/>	Traces of Leak Outside	<input type="checkbox"/>
Steel	<input checked="" type="checkbox"/>	Other _____	<input type="checkbox"/>	Intact	<input checked="" type="checkbox"/>	Dry	<input checked="" type="checkbox"/>

Observations

Environmental Damage

Damage from animals or vegetation compromising liner integrity ☐

Comments

N/A

Discoloration, erosion, or chemical degradation of the liner ☐

N/A

Degradation from the storm water flow or erosion of containment ☐

N/A

Physical Damage

Cracks, holes, bulges, stains, chips, or seepages in the liner system ☐

Comments

*Please take pictures of any type of damage (holes, etc.)

N/A

Improper or deferred maintenance of the liner system ☐

N/A

Dike wall, foundation, or embankment movement, settlement, or deterioration compromising liner integrity ☐

N/A

Degradation of the liner system at penetrations (piping, supports, wells, foundations, pads, etc.) ☐

N/A

Damage to the liner system from equipment, vehicles, foot traffic, etc. ☐

N/A

Evidence of foundation movement, settlement, or deterioration ☐

N/A

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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

Action 336380

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	336380
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2318130041
Incident Name	NAPP2318130041 PATTON 5 FEE #008H BATTERY @ 30-015-39641
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39641] PATTON 5 FEE #008H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PATTON 5 FEE #008H BATTERY
Date Release Discovered	06/28/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 18 BBL Recovered: 16 BBL Lost: 2 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)	WTP FLEX HOSE SEPARATED FROM THE KC NIPPLE CAUSING A PRODUCED WATER RELEASE INTO LINED CONTAINMENT WITH A SMALL AREA BREACHING CONTAINMENT

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QUESTIONS, Page 2

Action 336380

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	336380
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

The source of the release has been stopped	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: 04/23/2024
--	---

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QUESTIONS, Page 3

Action 336380

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	336380
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (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 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 500 and 1000 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 200 and 300 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	35600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/12/2024
On what date will (or did) the final sampling or liner inspection occur	04/02/2024
On what date will (or was) the remediation complete(d)	02/14/2024
What is the estimated surface area (in square feet) that will be reclaimed	1257
What is the estimated volume (in cubic yards) that will be reclaimed	80
What is the estimated surface area (in square feet) that will be remediated	2200
What is the estimated volume (in cubic yards) that will be remediated	80

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 336380

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	336380
	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.)

(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	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/23/2024
--	--

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.

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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 5

Action 336380

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	336380
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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

District I

1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 6

Action 336380

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	336380
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	312694
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/12/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2000

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2200
What was the total volume (cubic yards) remediated	80
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1257
What was the total volume (in cubic yards) reclaimed	80
Summarize any additional remediation activities not included by answers (above)	all contaminated soil is removed and liner was inspected and is in good shape

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: 04/23/2024
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QUESTIONS, Page 7

Action 336380

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 336380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 336380

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 336380
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2318130041 PATTON 5 FEE #008H BATTERY, thank you. This Remediation Closure Report is approved.	5/10/2024