

Spill Volume(Bbls) Calculator*Inputs in blue, Outputs in red*

Length(Ft)	Width(Ft)	Depth(In)
<u>200.000</u>	<u>15.000</u>	<u>0.500</u>
Cubic Feet Impacted		<u>125.000</u>
Barrels		<u>22.26</u>
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		<u>22.26</u>
Saturation	Damp no fluid when squeezed	
Estimated Barrels Released		2.30000

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)	200
Width (ft)	15
Depth (in)	0.500









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

December 7th, 2023

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

RE: Liner Inspection and Closure Report
Halberd 27 State 3H Battery
API No. N/A
GPS: Latitude 32.80720 Longitude -104.15500
UL- E, Section 26, Township 17S, Range 28E
NMOCD Reference No. NAPP2330733832

Spur Energy Partners (Spur) has contracted Pima Environmental Services, LLC (Pima) to perform a liner inspection and prepare this closure report for the release of produced water that happened on the Halberd 27 State 3H Battery (Halberd). An initial C-141 was submitted on November 3, 2023, and can be found in Appendix B. This incident was assigned Incident ID NAPP2330733832, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Halberd is located approximately 10.20 miles west of Loco Hills, NM. This spill site is in Unit E, Section 26, Township 17S, Range 28E, Latitude 32.80720 Longitude -104.15500, Eddy County, NM. A Location Map can be found in Figure 1.

Based on the well water data from the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this vicinity measures 58 feet below grade surface (BGS), positioned roughly 2.48 miles away from the Halberd, drilled on December 8, 2023. Conversely, as per the United States Geological Survey well water data, the nearest groundwater depth in this region is recorded at 257 feet BGS, situated approximately 1.48 miles away from the Halberd, with the last gauge conducted on January 3, 1994. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps. Notably, the Halberd is situated within a low karst area, as illustrated in Figure 3. Additionally, a comprehensive Topographic Map is available for reference in Figure 2.

Release Information

NAPP2330733832: On November 2, 2023, a pinhole developed in a four-inch water dome line, resulting in the release of produced water into the lined containment. An estimated 23 barrels of produced water were discharged, with 17 barrels successfully recovered. It's important to note that all the released produced water remained contained within the lined area. The remaining six barrels of produced water were effectively recovered during the power washing remediation event.

A Site Map can be found in Figure 4.

Site Assessment and Liner Inspection

On November 28, 2023, the Pima personnel conducted a thorough cleaning of the lined containment by utilizing pressure washing techniques. Additionally, any remaining standing fluid was effectively removed using a vacuum truck.

On November 30, 2023, after sending the 48-hour notification via email, Pima Environmental conducted a liner inspection at this location. We concluded that this liner and containment maintained its integrity and was able to retain the fluids. The liner inspection form and photographic documentation can be found in Appendix C.

Closure Request

After careful review, Pima requests that this incident NAPP2330733832 be closed. Spur has complied with the applicable closure requirements.

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

Respectfully,

Sebastian Orozco

Sebastian Orozco
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- C-141 Form & 48 Hour Notification
- Appendix C- Liner Inspection Form & Photographic Documentation



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

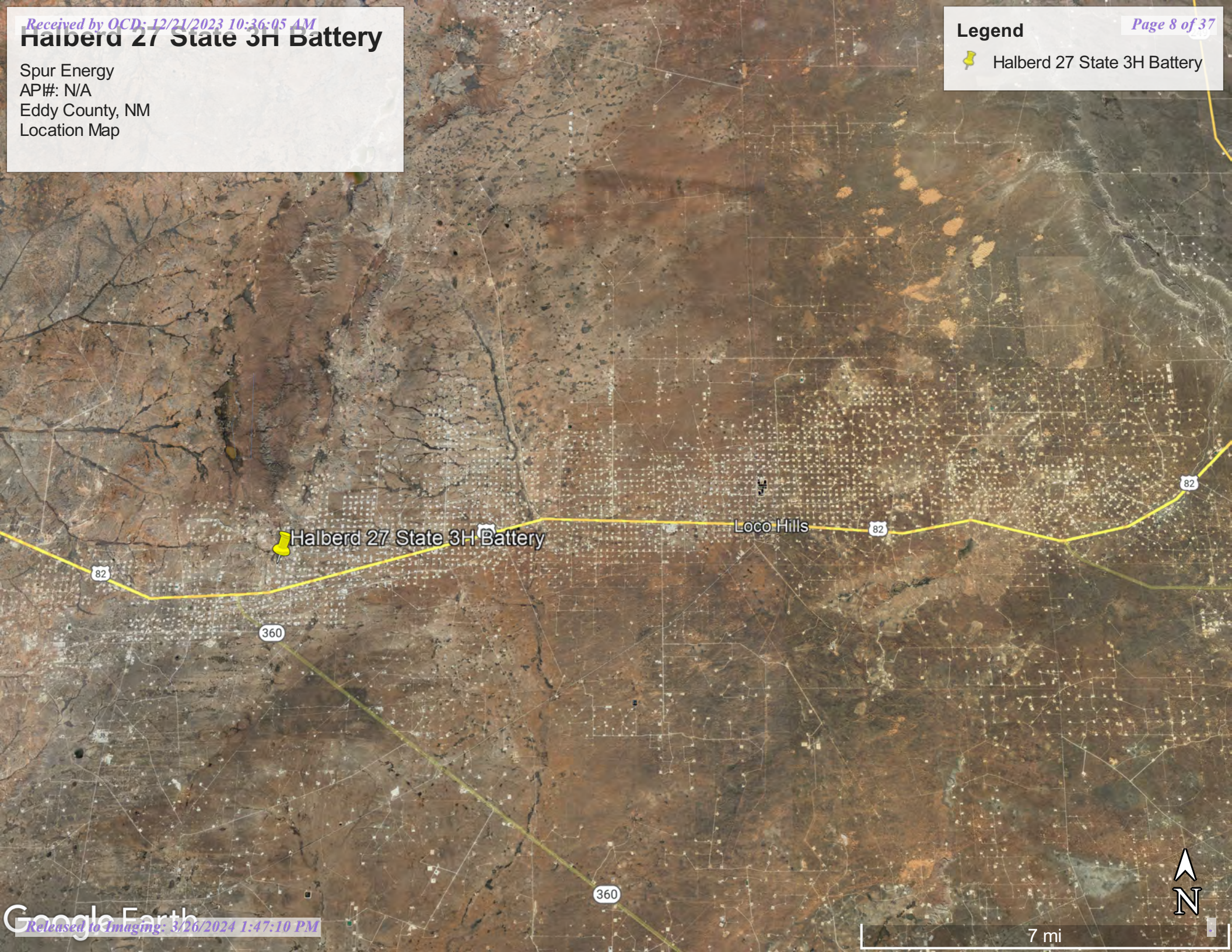
4-Site Map

Halberd 27 State 3H Battery

Spur Energy
API#: N/A
Eddy County, NM
Location Map

Legend


 Halberd 27 State 3H Battery

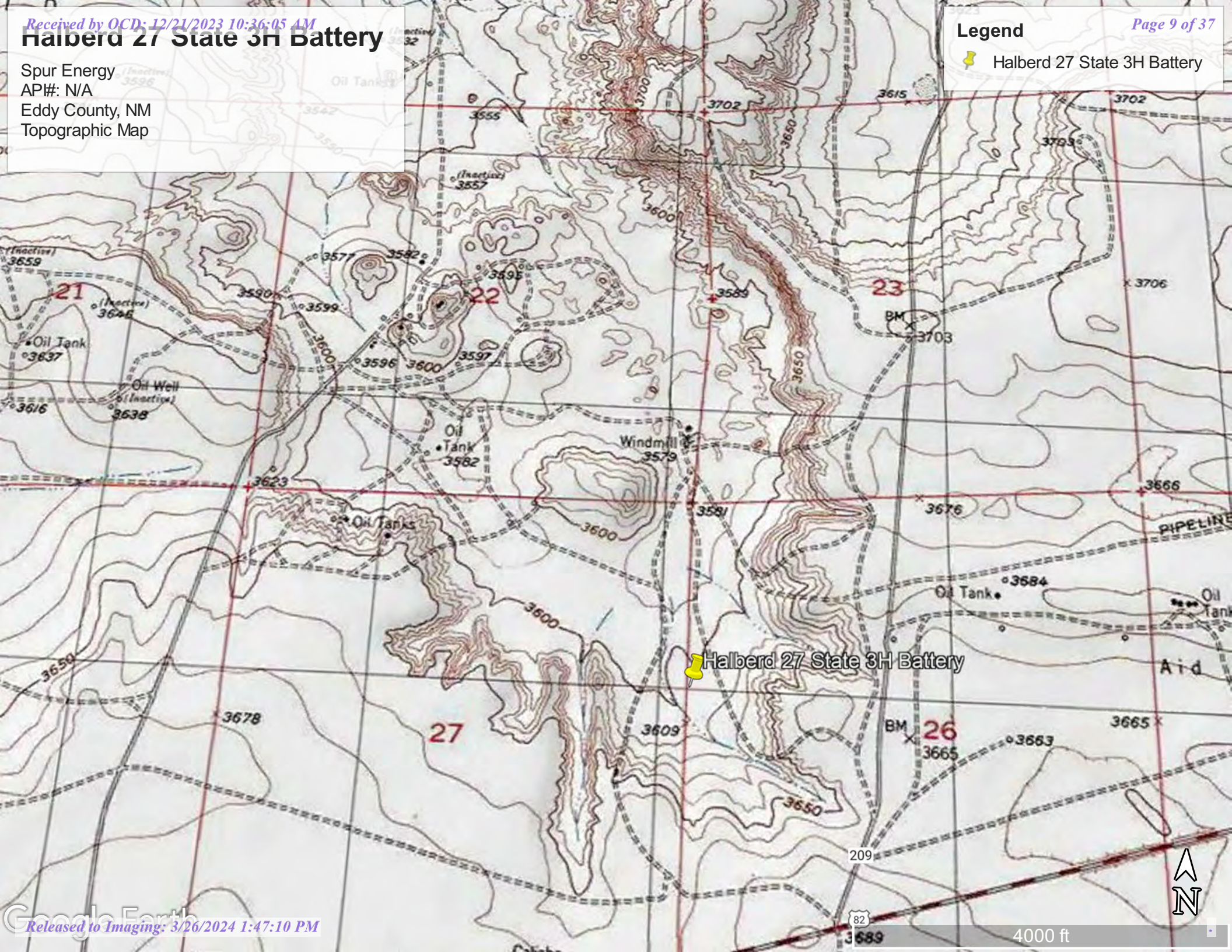


Halberd 27 State 3H Battery

Spur Energy
API#: N/A
Eddy County, NM
Topographic Map

Legend

 Halberd 27 State 3H Battery



Halberd 27 State 3H Battery

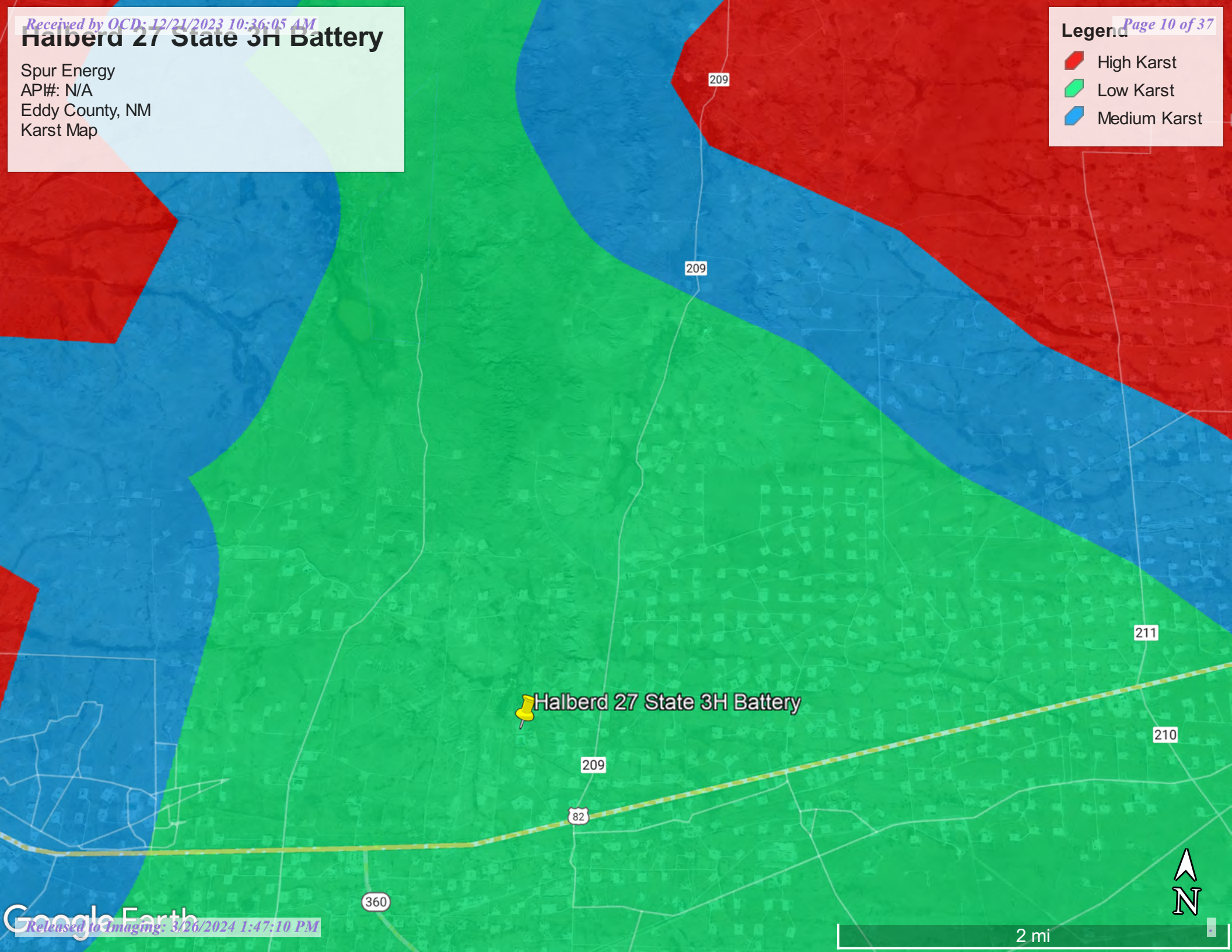
Spur Energy
API#: N/A
Eddy County, NM
Karst Map

Legend

High Karst

Low Karst

Medium Karst

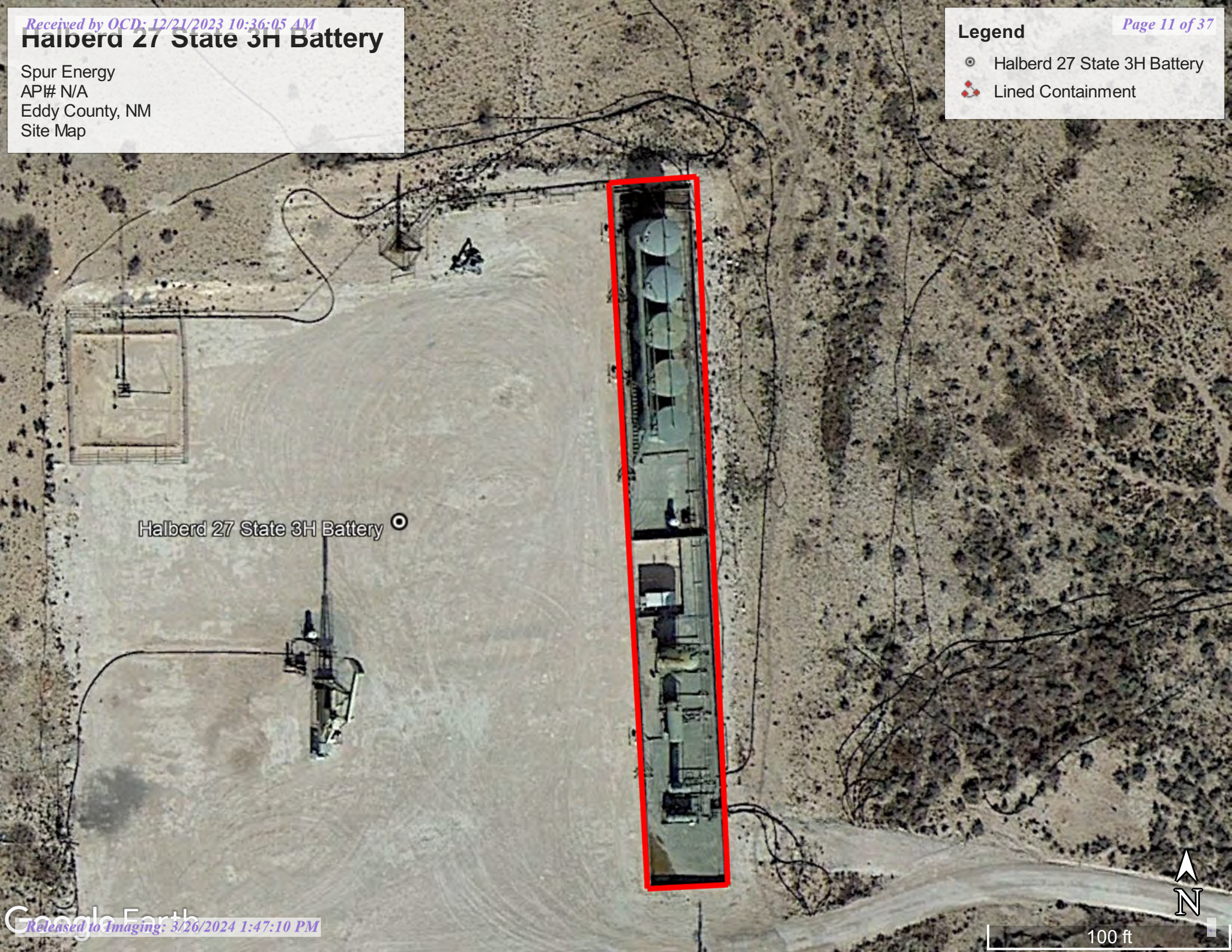


Halberd 27 State 3H Battery

Spur Energy
AP# N/A
Eddy County, NM
Site Map

Legend

- Halberd 27 State 3H Battery
- ▭ Lined Containment



Halberd 27 State 3H Battery



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

Wetlands Map



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 12307 POD1		RA	ED	4	2	2	14	17S	28E	580495	3633981	3999	140	58	82
RA 11857 POD1		RA	ED	1	1	2	05	18S	26E	577784	3625988	4442	235	95	140
Average Depth to Water:														76 feet	
Minimum Depth:														58 feet	
Maximum Depth:														95 feet	

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 579109.68

Northing (Y): 3630228.93

Radius: 5000

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.




11/6/23 9:28 AM

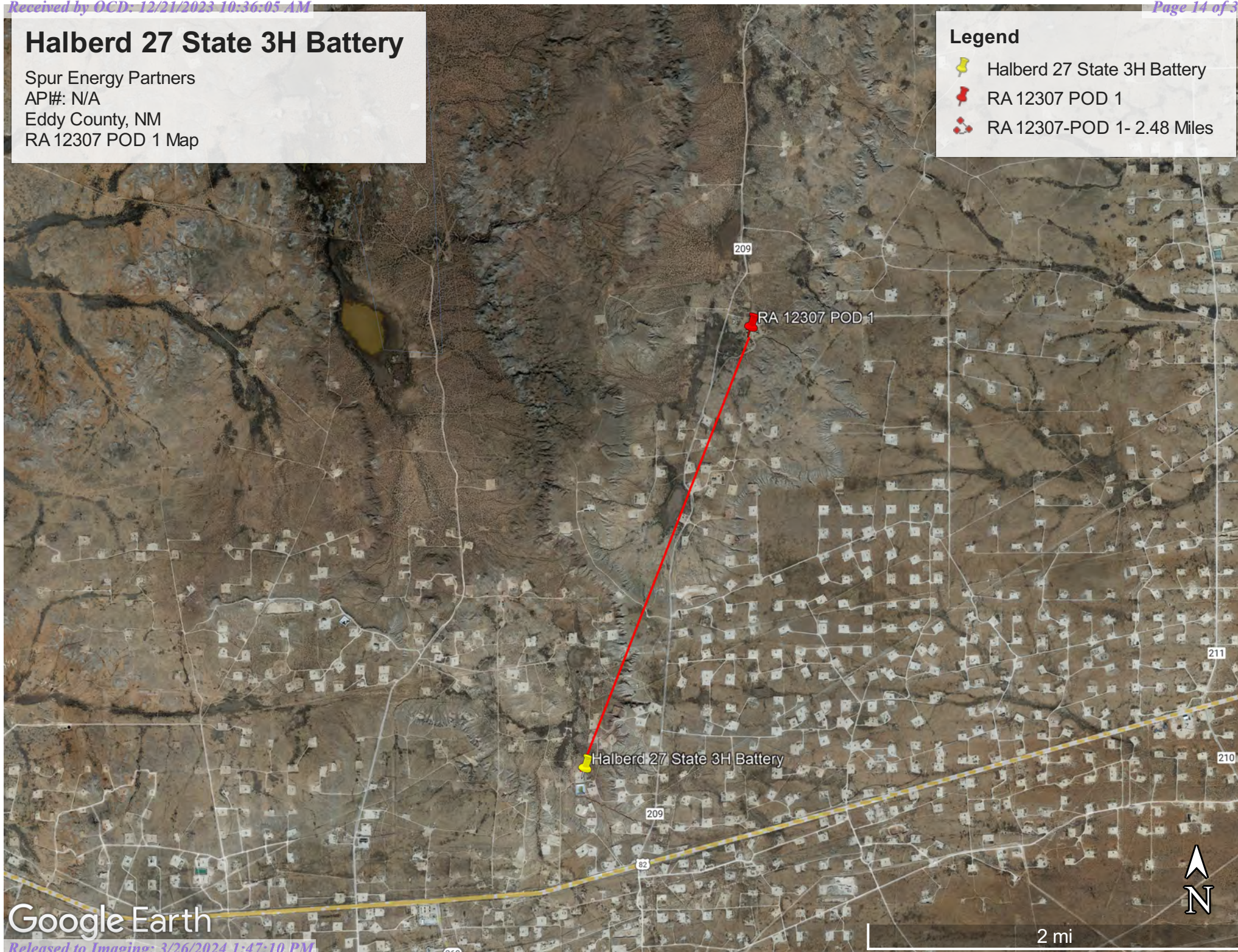
WATER COLUMN/ AVERAGE DEPTH TO WATER

Halberd 27 State 3H Battery

Spur Energy Partners
AP#: N/A
Eddy County, NM
RA 12307 POD 1 Map

Legend

-  Halberd 27 State 3H Battery
-  RA 12307 POD 1
-  RA 12307-POD 1- 2.48 Miles



Google Earth

2 mi



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 324724104082301

Minimum number of levels = 1

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

USGS 324724104082301 17S.28E.35.42233

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°47'24", Longitude 104°08'23" NAD27

Land-surface elevation 3,659 feet above NGVD29

The depth of the well is 280.00 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

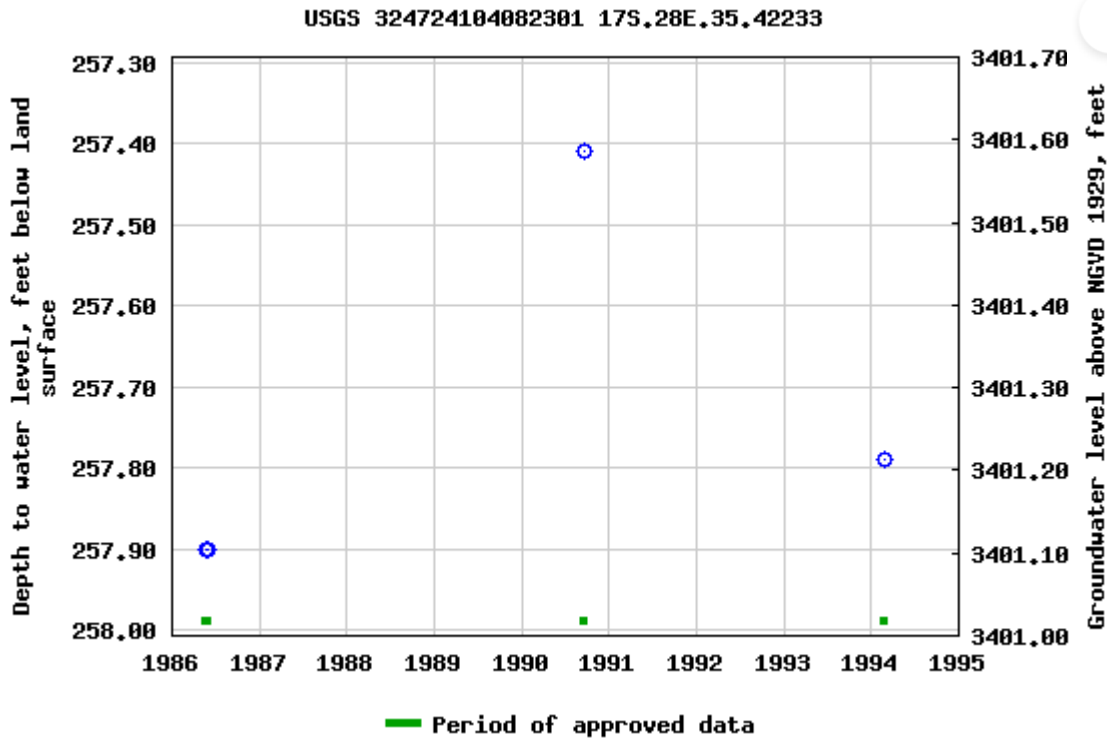
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



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


Page Last Modified: 2023-11-06 11:26:55 EST


0.58 0.51 nadww01


Halberd 27 State 3H Battery

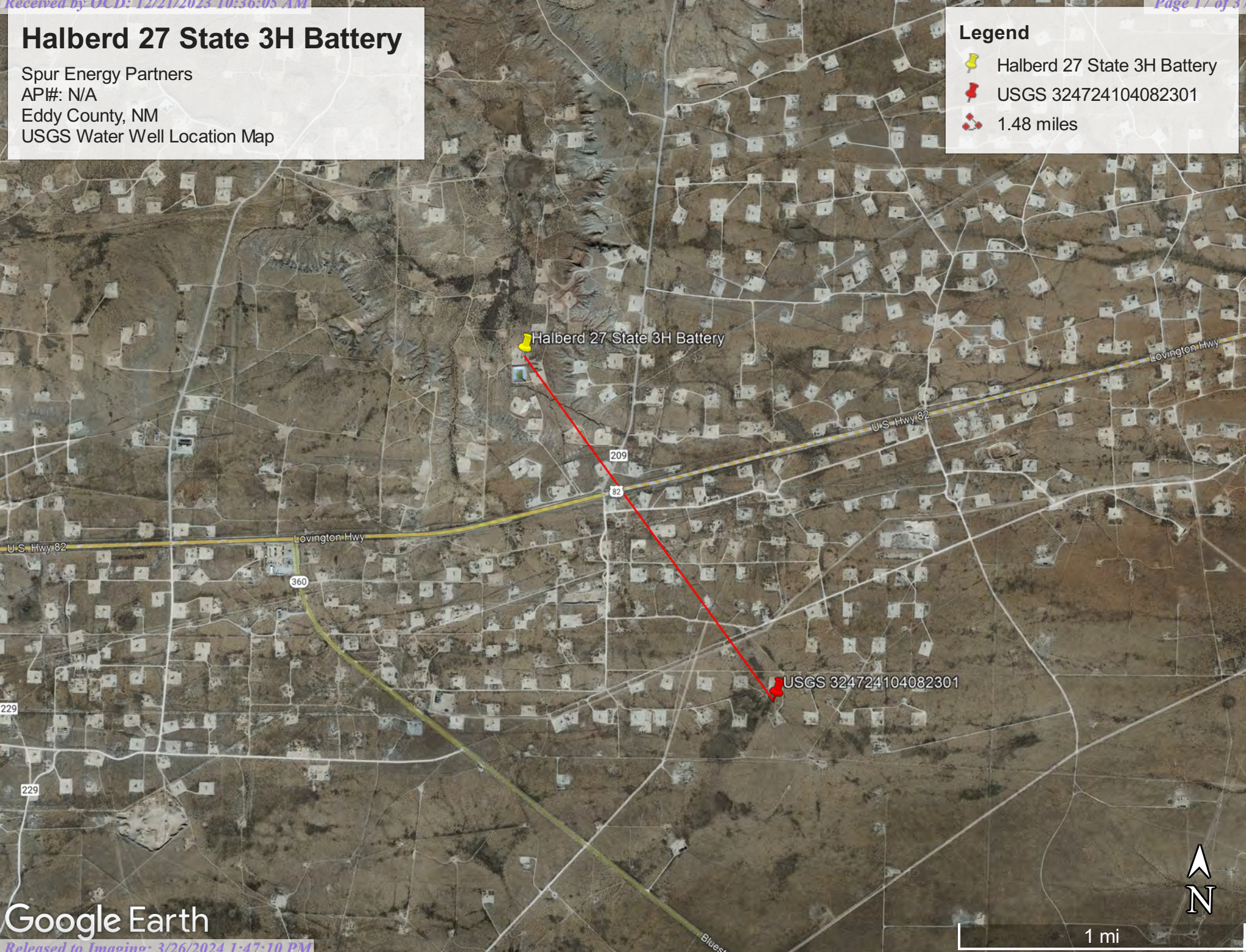
Spur Energy Partners
API#: N/A
Eddy County, NM
USGS Water Well Location Map

Legend

 Halberd 27 State 3H Battery



 USGS 324724104082301

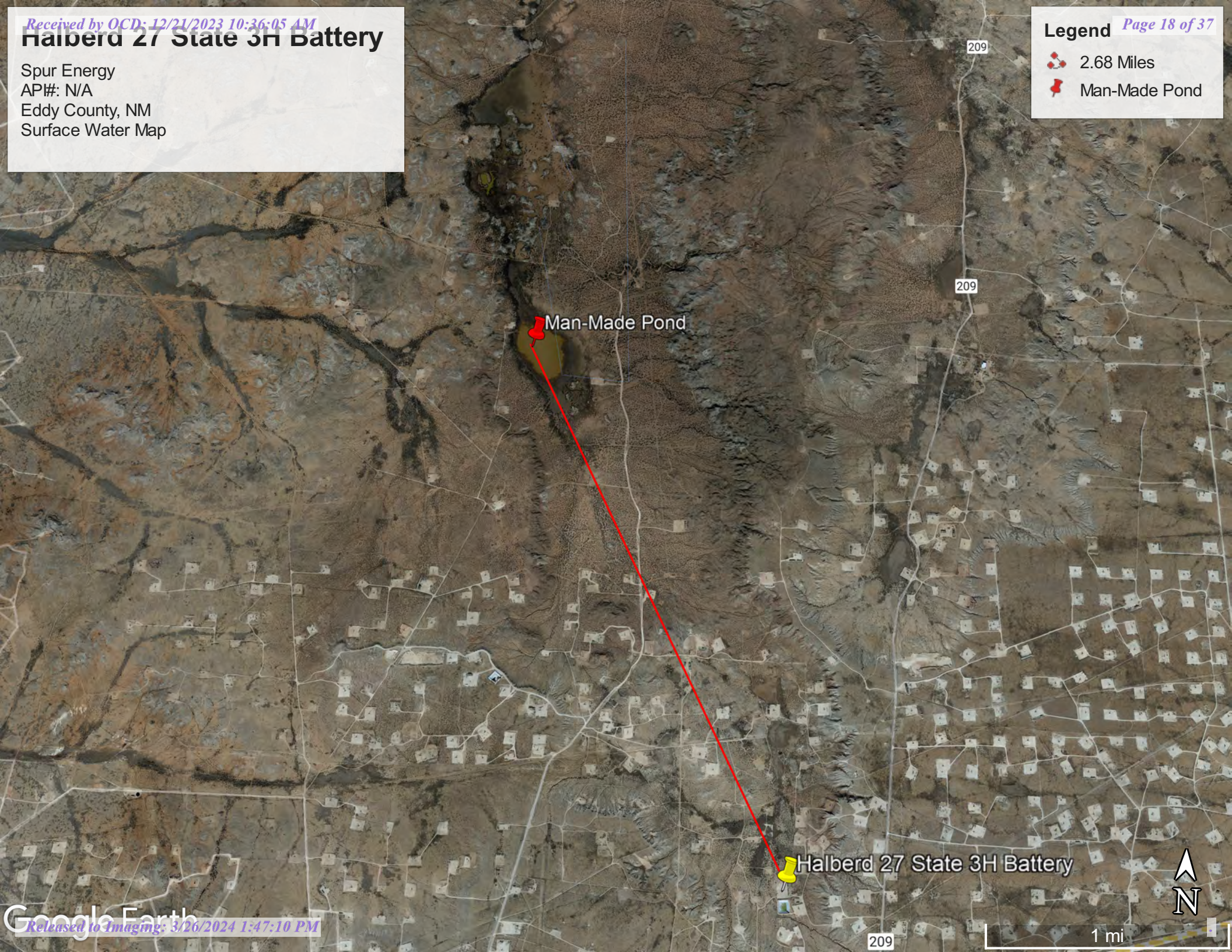
 1.48 miles



Halberd 27 State 3H Battery

Spur Energy
API#: N/A
Eddy County, NM
Surface Water Map

-  2.68 Miles
-  Man-Made Pond



Man-Made Pond

Halberd 27 State 3H Battery



1 mi



December 6, 2023

Wetlands

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

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



Pima Environmental Services

Appendix B

C-141 Form

48-Hour Notification

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2330733832
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Spur Energy Partners LLC	OGRID	328947
Contact Name	Katherine Purvis	Contact Telephone	(575) 441-8619
Contact email	katherine.purvis@spurenergy.com	Incident # (assigned by OCD)	nAPP2330733832
Contact mailing address	9655 Katy Freeway; Houston, TX 77024		

Location of Release Source

Latitude 32.80720 Longitude -104.15500
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	HALBERD 27 STATE 3H BATTERY	Site Type	BATTERY
Date Release Discovered	11/02/2023	API# (if applicable)	N/A

Unit Letter	Section	Township	Range	County
E	26	17S	28E	EDDY

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 23 BBLS	Volume Recovered (bbls) 17 BBLS
	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"/> 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 (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

4" WATER DOME LINE DEVELOPED A PINHOLE RELEASING PRODUCED WATER INTO LINED CONTAINMENT

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2330733832
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: N/A	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: Katherine Purvis	Title: EHS Coordinator
Signature: <u>Katherine Purvis</u>	Date: 11/03/2023
email: katherine.purvis@spurenergy.com	Telephone: (575) 441-8619
<u>OCD Only</u>	
Received by: Shelly Wells	Date: 11/3/2023

Incident ID	NAPP2330733832
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information.
- ☒ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2330733832
District RP	
Facility ID	
Application ID	

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.

Printed Name: Katherine Purvis

Title: EHS Coordinator

Signature: Katherine Purvis

Date: 12/21/23

email: Katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2330733832
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Katherine Purvis

Title: EHS Coordinator

Signature: Katherine Purvis

Date: 12/21/23

email: Katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

lynsey@pimaoil.com

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, November 27, 2023 3:22 PM
To: sebastian@pimaoil.com
Cc: tom@pimaoil.com; 'Lynsey Coons'; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Halberd 27 State 3H Battery Liner Inspection - 48 Hour Notification

Good afternoon Sebastian,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: sebastian@pimaoil.com <sebastian@pimaoil.com>
Sent: Monday, November 27, 2023 3:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: tom@pimaoil.com; 'Lynsey Coons' <lynsey@pimaoil.com>
Subject: [EXTERNAL] Halberd 27 State 3H Battery Liner Inspection - 48 Hour Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

Pima Environmental has scheduled a liner inspection at the Halberd 27 State 3H Battery (Napp2330733832) on Thursday November 30, 2023. Our personnel will be on-site starting at 6 am. Thank you.

Respectfully,
Sebastian Orozco
Project Manager
5614 N Lovington Hwy,
Hobbs, NM 88240
Sebastian@pimaoil.com
619-721-4813 cell





Pima Environmental Services

Appendix C

Liner Inspection Form

Photographic Documentation



Pima Environmental Services, LLC

Liner Inspection FormCompany Name: Spur EnergySite: Halberd 27 State 3HLat/Long: 32.80720, -104.15500NMOCD Incident ID
& Incident Date: NAPP2330733832 11/02/20232-Day Notification
Sent: via Email by Sebastian Orozco 11/27/2023Inspection Date: 11/30/2023

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

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?	X		The inspection images of the liner reveal residual fluid resulting from the remediation event involving power washing.
Does the liner have integrity to contain a leak?	X		

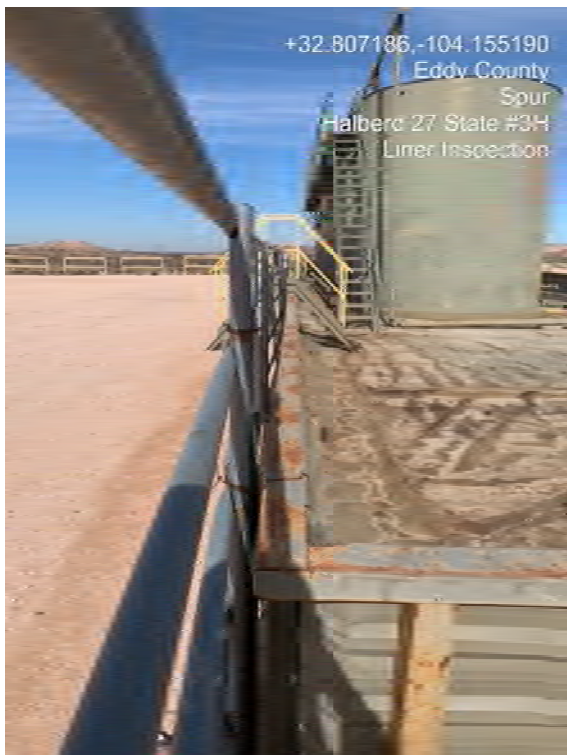
Comments: _____

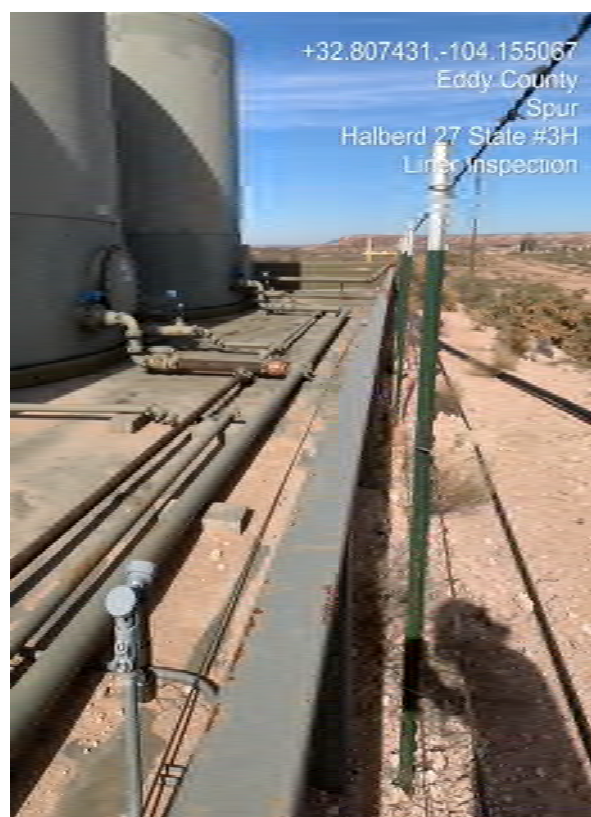
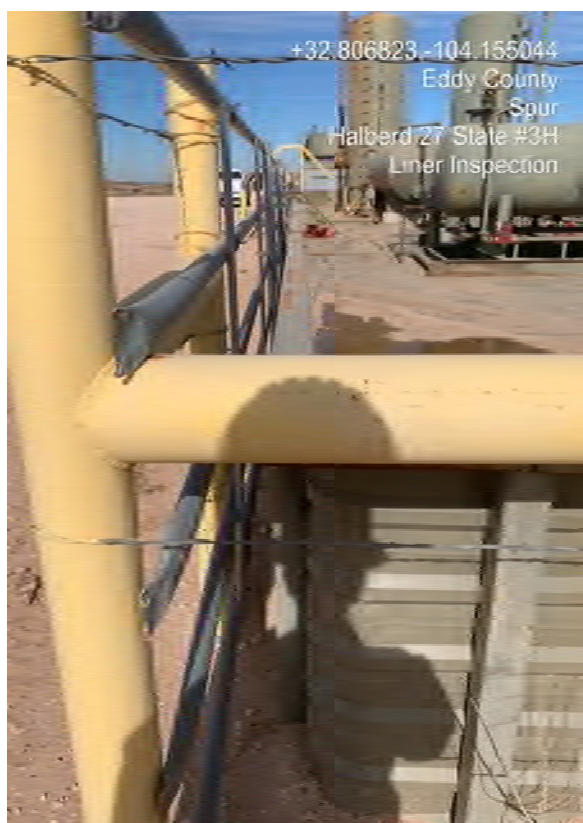
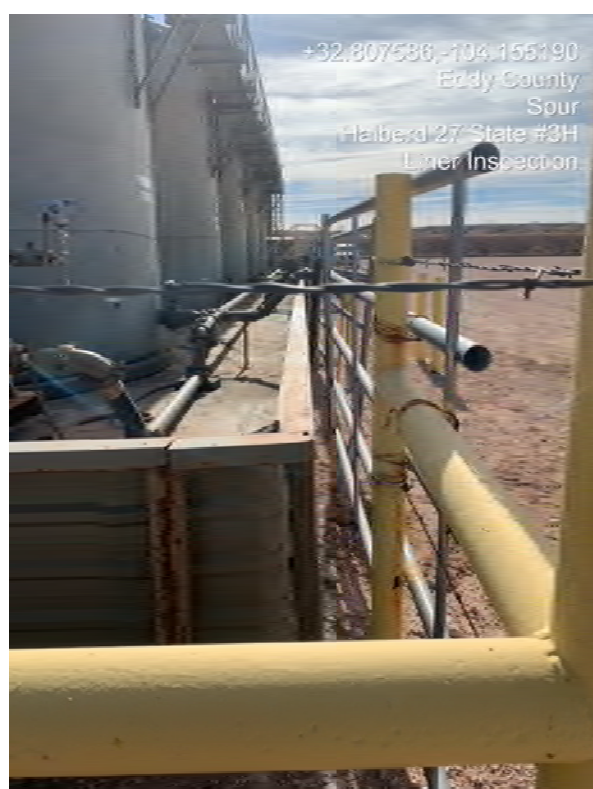
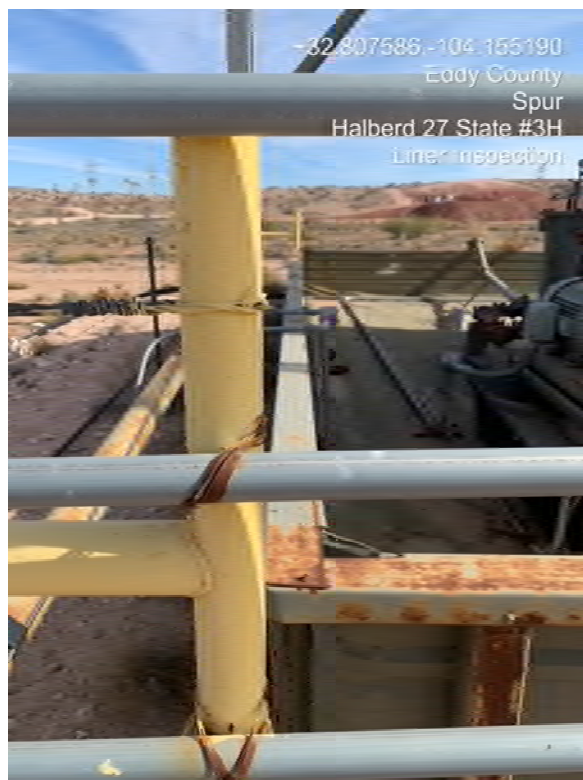
Inspector Name: Andrew Franco Inspector Signature: Andrew Franco



SITE PHOTOGRAPHS
SPUR ENERGY PARTNERS
Halberd 27 State 3H Battery

Liner Inspection:







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

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

QUESTIONS

Action 296978

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 296978
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2330733832
Incident Name	NAPP2330733832 HALBERD 27 STATE 3H BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HALBERD 27 STATE 3H BATTERY
Date Release Discovered	11/02/2023
Surface Owner	State

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 Pipeline (Any) Produced Water Released: 23 BBL Recovered: 17 BBL Lost: 6 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)	4" WATER DOME LINE DEVELOPED A PINHOLE FROM CORROSION RELEASING PRODUCED WATER INTO LINED CONTAINMENT

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QUESTIONS, Page 2

Action 296978

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	296978
	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	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: 12/21/2023
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QUESTIONS, Page 3

Action 296978

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	296978
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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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	Yes
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	11/28/2023
On what date will (or did) the final sampling or liner inspection occur	11/30/2023
On what date will (or was) the remediation complete(d)	11/30/2023
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
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 296978

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	296978
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

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

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 12/21/2023
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 6

Action 296978

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number: 296978
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	296965
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/30/2023
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	6000

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	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	N/A

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: 12/21/2023
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CONDITIONS

Action 296978

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 296978
	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 #NAPP2330733832 HALBERD 27 STATE 3H BATTERY, thank you. This Remediation Closure Report is approved.	3/26/2024