

Incident ID	nAPP2111341246
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>196</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 <b>not</b> 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

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Printed Name: Dale Woodall Title: Environmental Professional

Signature: *Dale Woodall* Date: 11/9/2022

email: dale.woodall@dn.com Telephone: 405-318-4697

**OCD Only**

Received by: Jocelyn Harimon Date: 11/09/2022

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## 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

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Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



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

September 22, 2022

Bureau of Land Management  
620 East Green St  
Carlsbad, NM, 88220

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

**RE: Liner Inspection and Closure Report**  
**Boundary Raider 7 CTB 2**  
**API No. N/A**  
**GPS: Latitude 32.314042 Longitude -103.709243**  
**UL P, Section 7, Township 23S, Range 32E**  
**NMOCD Reference No. NAPP2111341246**

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to perform a liner inspection and prepare this closure report for a produced water release that happened at the Boundary Raider 7 CTB 2 (Boundary). An initial C-141 was submitted on May 11, 2021, and can be found in Appendix B. This incident was assigned Incident ID NAPP2111341246, by the New Mexico Oil Conservation Division (NMOCD).

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

The Boundary is located approximately thirty-one (31) miles east of Carlsbad, NM. This spill site is in Unit P, Section 7, Township 23S, Range 32E, Latitude 32.314042 Longitude -103.709243, Lea County, NM. A Location Map can be found in Figure 1.

Based upon New Mexico Office of the State Engineer well water data, depth to the nearest groundwater in this area is 713 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 195 feet BGS. See Appendix A for referenced water surveys. The Boundary is in a low karst area (Figure 3). A Topographic Map can be found in Figure 2.

#### **Release Information**

**NAPP2111341246:** On April 18, 2021, it was discovered that the water transfer pump had developed a leak. Approximately 44.33 barrels (bbls) of produced water was released from the pump. A vacuum truck was dispatched and recovered all 44.33 bbls of fluid from the lined SPCC containment ring. Once fluids were removed, the liner was visually inspected by Devon field staff for any pinholes or punctures, and none were found. Based on this inspection there is no evidence that the spilled fluids left containment.

A Site Map can be found in Figure 4.

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

On September 22, 2022, after sending the 48-hour notification 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, NAPP2111341246 be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or [tom@pimaoil.com](mailto:tom@pimaoil.com).

**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

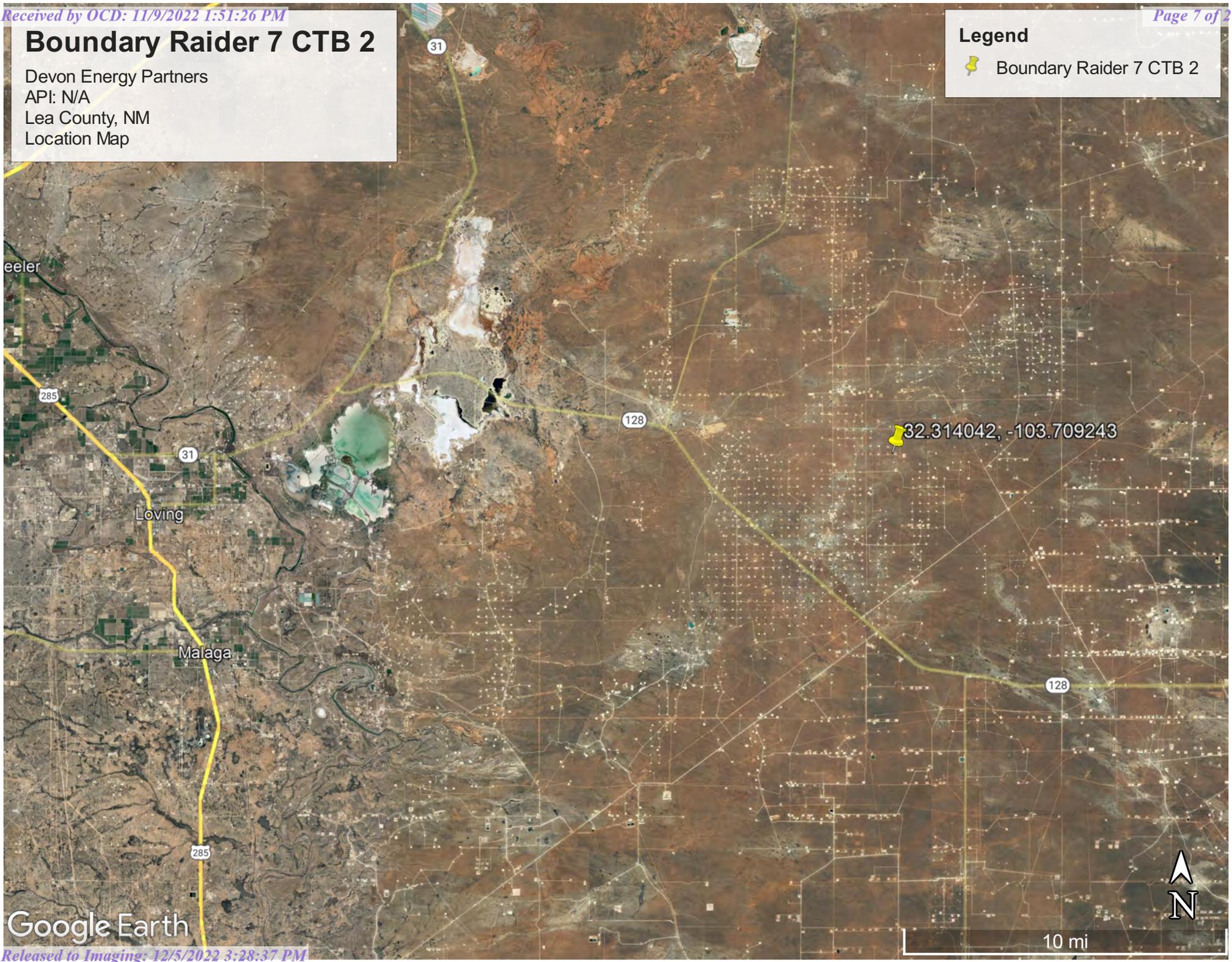
4-Site Map

# Boundary Raider 7 CTB 2

Devon Energy Partners  
API: N/A  
Lea County, NM  
Location Map

**Legend**

-  Boundary Raider 7 CTB 2



 32.314042, -103.709243

Google Earth



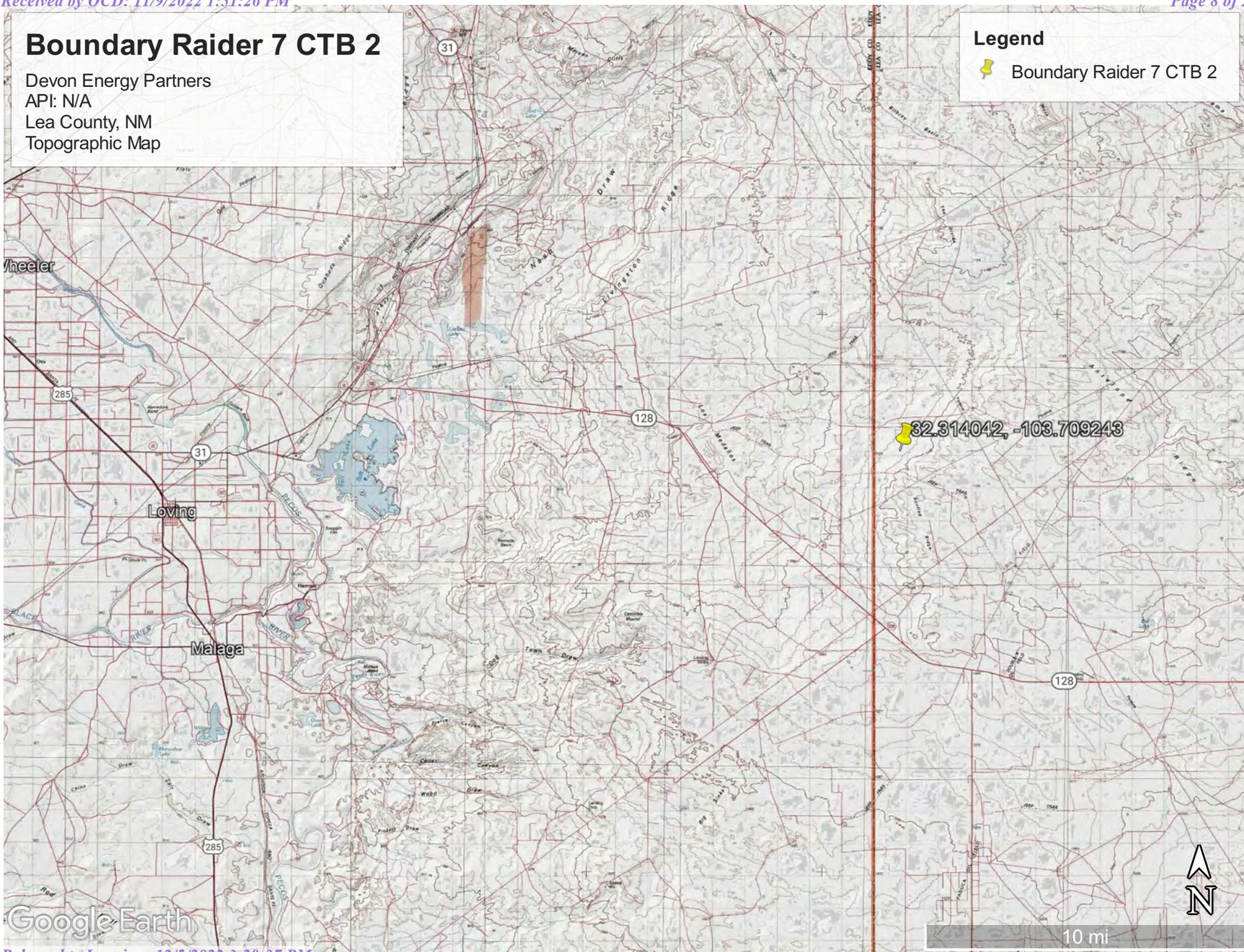
10 mi

# Boundary Raider 7 CTB 2

Devon Energy Partners  
API: N/A  
Lea County, NM  
Topographic Map

**Legend**

-  Boundary Raider 7 CTB 2



Google Earth



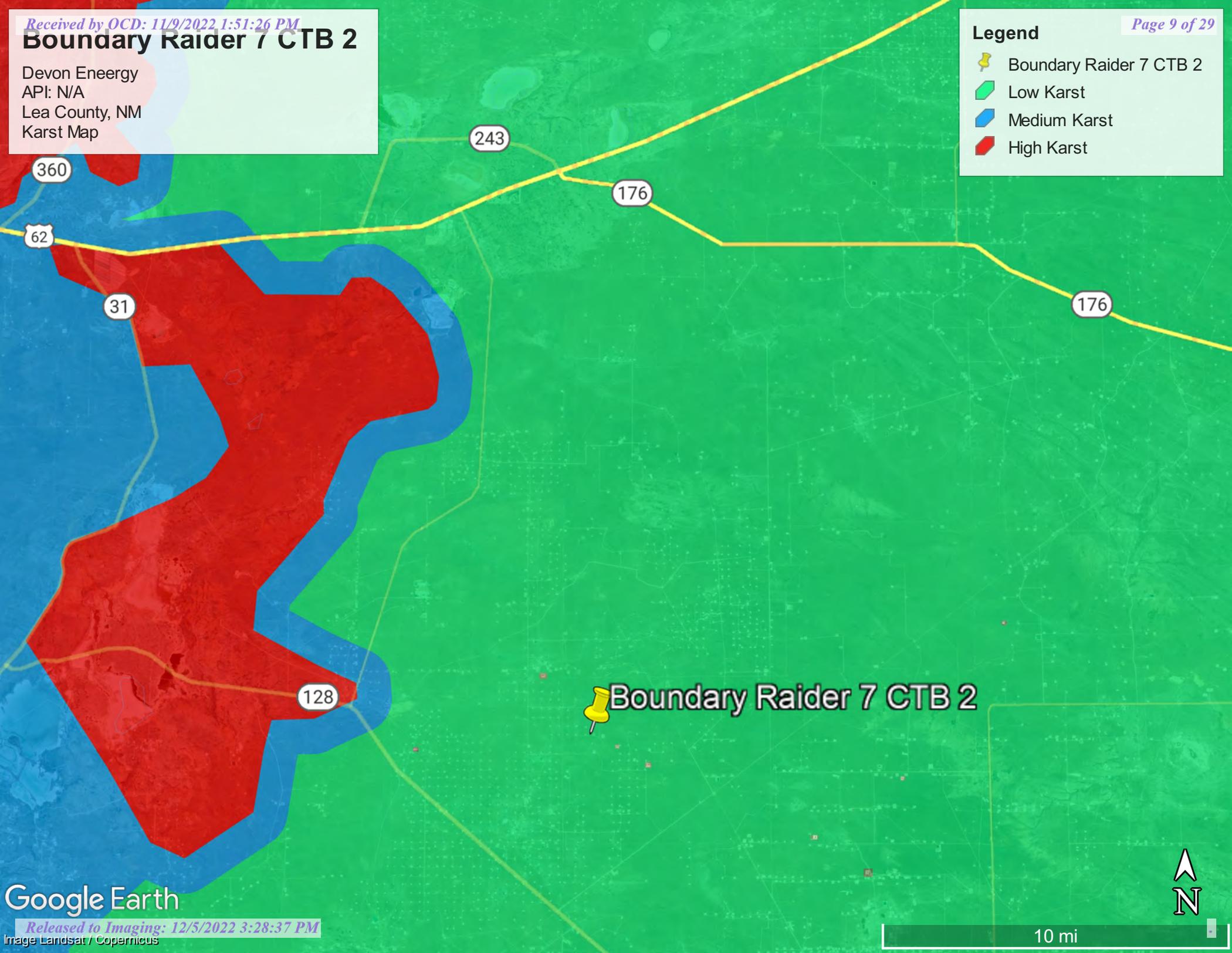
10 mi

# Boundary Raider 7 CTB 2

Devon Energy  
API: N/A  
Lea County, NM  
Karst Map

## Legend

-  Boundary Raider 7 CTB 2
-  Low Karst
-  Medium Karst
-  High Karst



 Boundary Raider 7 CTB 2



# Boundary Raider 7 CTB 2

Devon Energy  
API: N/A  
Lea County, NM  
Site Map

## Legend

 Boundary Raider 7 CTB 2

 Boundary Raider 7 CTB 2





Pima Environmental Services

**Appendix A**

Water Surveys:

OSE

USGS

Wetlands Map

Surface Water 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
<a href="#">C_03851 POD1</a>		CUB	LE	3	3	4	20	23S	32E	622880	3572660	3589	1392	713	679
<a href="#">C_02216</a>		CUB	LE	2	2	4	21	23S	32E	625035	3573261*	4452	585	400	185
<a href="#">C_02777</a>		CUB	ED	4	4	4	10	23S	31E	616974	3575662	4543	890		
<a href="#">C_03749 POD1</a>		CUB	ED	2	2	15	23S	31E	616974	3575662	4543	865		639	226
<a href="#">C_02349</a>		CUB	ED	2	3	03	23S	32E	625678	3578004*	4637	525			
<a href="#">C_03529 POD1</a>		C	LE	2	4	3	29	23S	32E	622651	3571212	4899	550		

Average Depth to Water: **584 feet**  
 Minimum Depth: **400 feet**  
 Maximum Depth: **713 feet**

**Record Count:** 6

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

**Easting (X):** 621506.82

**Northing (Y):** 3575976.85

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/24/22 11:39 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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 =

- 321950103400601

Minimum number of levels = 1

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

### USGS 321950103400601 23S.32E.03.31110

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°19'50", Longitude 103°40'06" NAD27

Land-surface elevation 3,668 feet above NAVD88

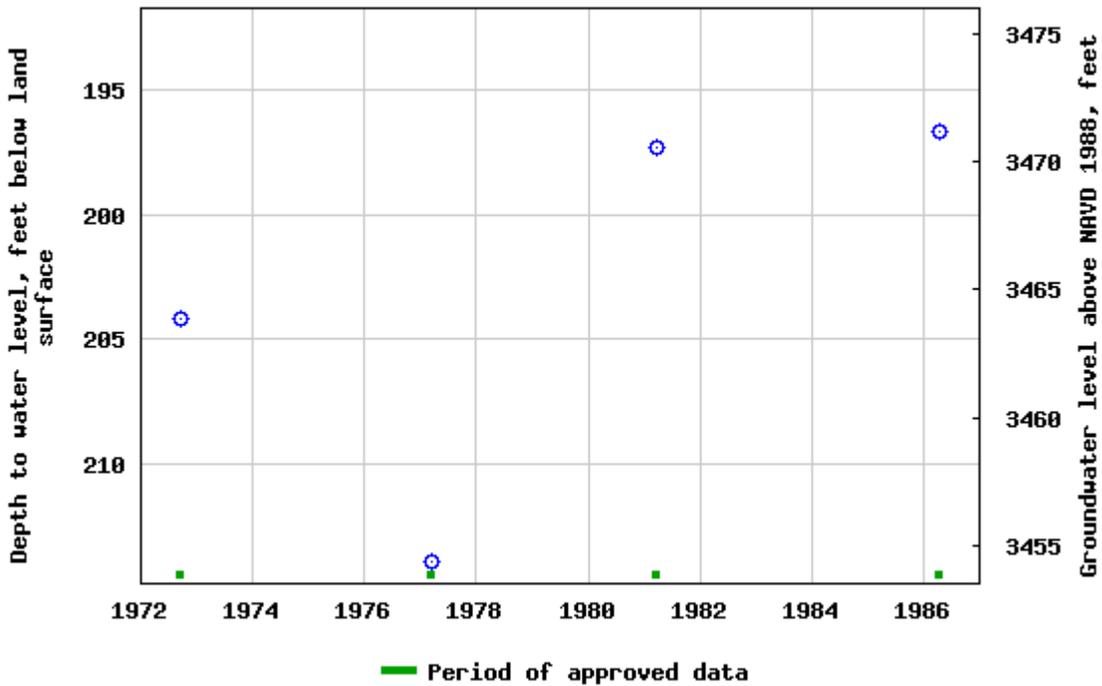
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

#### Output formats

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

USGS 321950103400601 23S.32E.03.31110



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

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

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

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

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



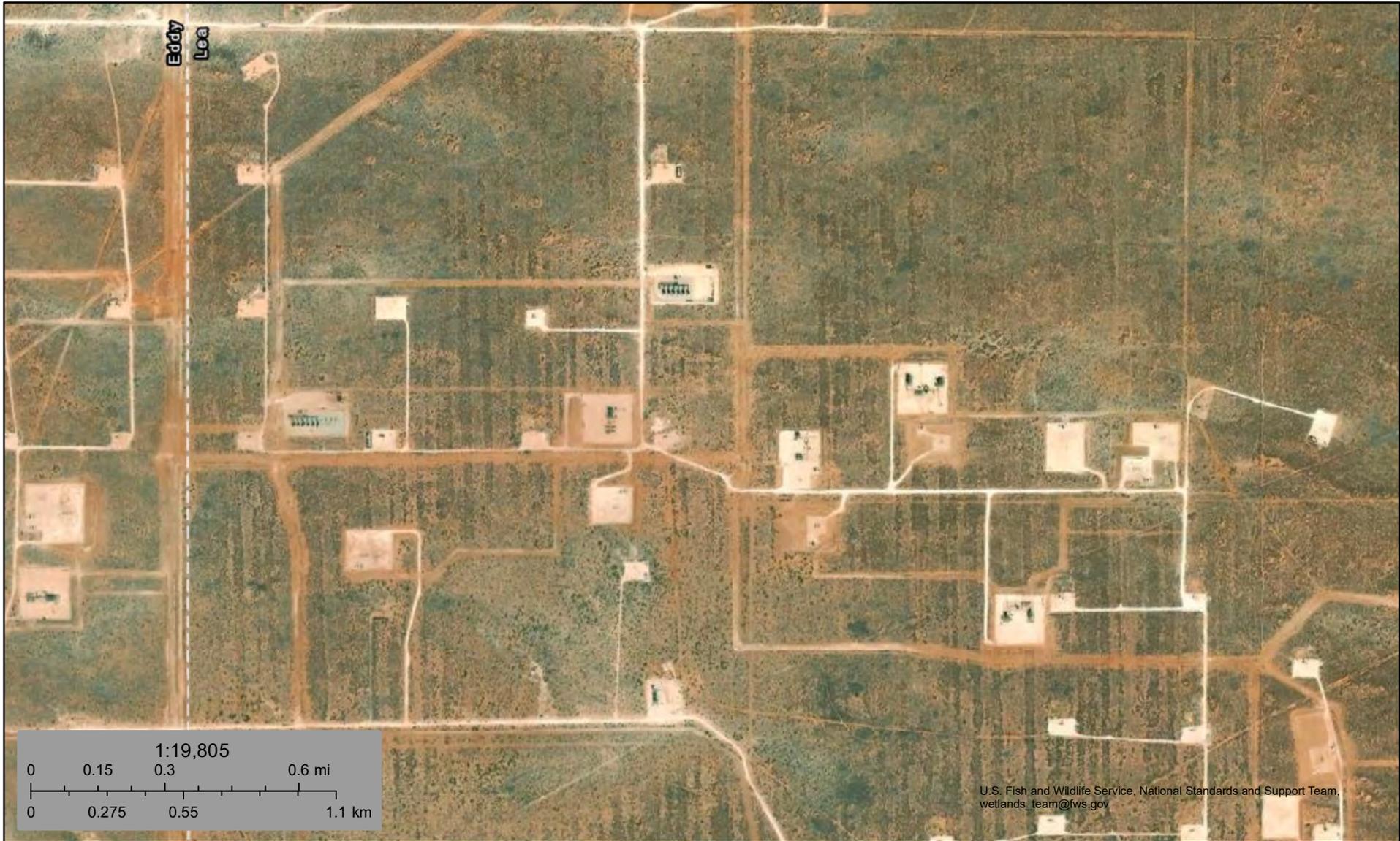
Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-08-24 13:35:33 EDT

0.6 0.53 nadww02



# Wetlands Map



September 19, 2022

### Wetlands

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

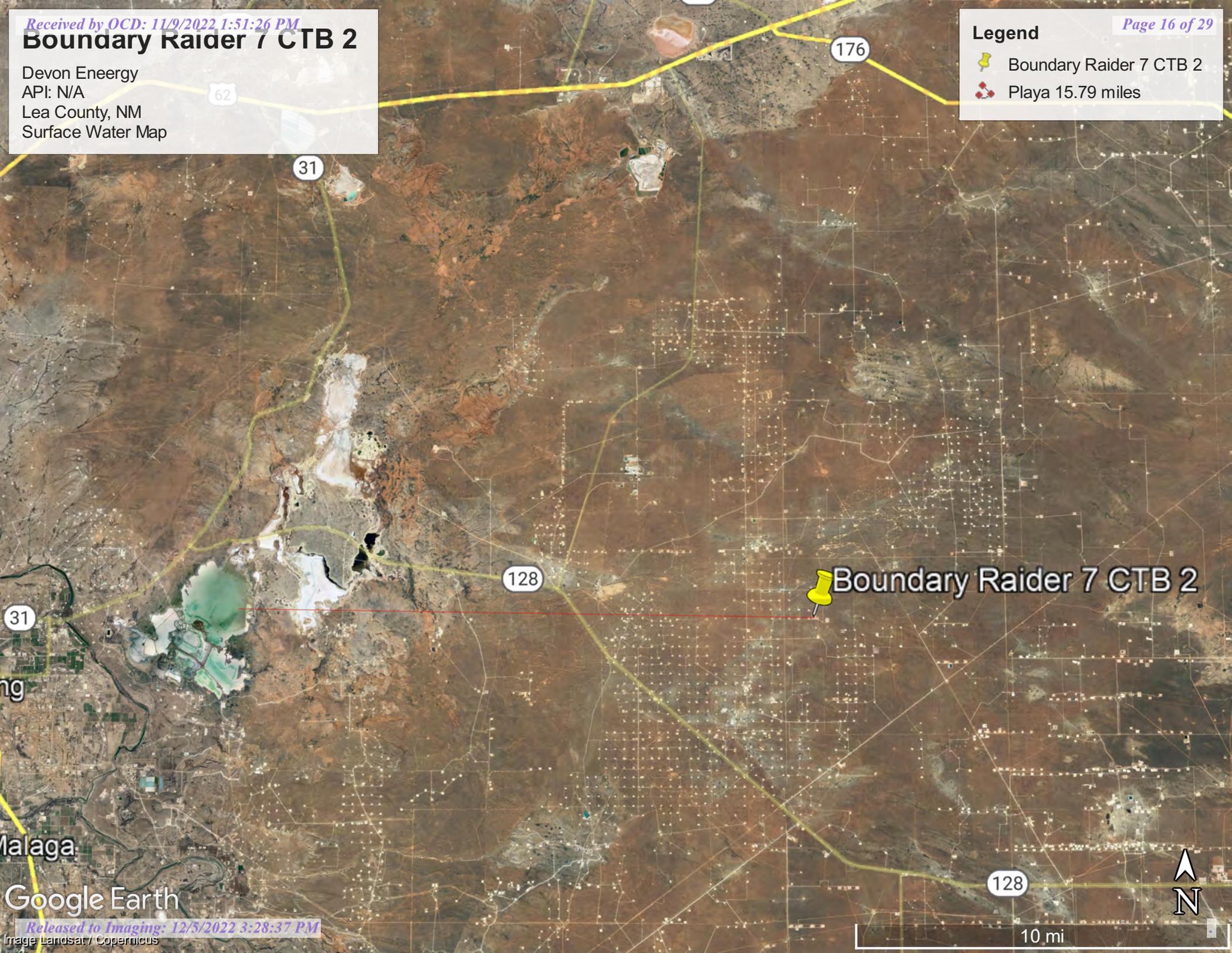
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Boundary Raider 7 CTB 2

Devon Energy  
API: N/A  
Lea County, NM  
Surface Water Map

## Legend

-  Boundary Raider 7 CTB 2
-  Playa 15.79 miles



 Boundary Raider 7 CTB 2





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

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

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

Incident ID	nAPP2111341246
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## Release Notification

### Responsible Party

Responsible Party Devon	OGRID 6137
Contact Name Amanda Davis	Contact Telephone 575-748-0176
Contact email Amanda.Davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

### Location of Release Source

Latitude 32.314042 Longitude -103.709243  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name Boundary Raider 7 CTB 2	Site Type Oil
Date Release Discovered 4/18/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	7	23S	32E	Lea

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) 44.33 BBLS	Volume Recovered (bbls) 44.33 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input 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 Transfer pump developed a leak inside lined containment.

State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>This is considered a major release because it is over 25 BBLs.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>NOR was done on the OCD portal on 4/20/2021 by Wesley Mathews</b>	

### 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:  
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.
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Printed Name: <u>Kendra DeHoyos</u> Title: <u>EHS Associate</u> Signature: <u>Kendra DeHoyos</u> Date: <u>5/11/2021</u> email: <u>Kendra.DeHoyos@dvn.com</u> Telephone: <u>575-748-0167</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____

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Signature: *Dale Woodall* Date: 11/9/2022

email: dale.woodall@dvn.com Telephone: 405-318-4697

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Signature: *Dale Woodall* Date: 11/9/2022  
 email: dale.woodall@dvn.com Telephone: 405-318-4697

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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Closure Approved by: *Jennifer Nobui* Date: 12/05/2022  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A



Gio PimaOil <gio@pimaoil.com>

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## Liner Inspection NAPP2111341246

1 message

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Gio PimaOil <gio@pimaoil.com>

Mon, Sep 19, 2022 at 10:42 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

*Good Morning,*

*Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Boundary Raider 7 CTB 2 for incident NAPP2111341246. Pima personnel are scheduled to be on site for this Inspection event at approximately 6:00 a.m. On Thursday, September 22, 2022. If you have any questions or concerns, please let me know. Thank you.*

Gio Gomez  
Project Manager  
cell-806-782-1151  
Office- 575-964-7740  
**Pima Environmental Services, LLC.**



Pima Environmental Services

**Appendix C**

Liner Inspection Form

Photographic Documentation



Pima Environmental Services, LLC

**Liner Inspection Form**

Company Name: Devon Energy

Site: Boundary Raider 7 CTB 2

Lat/Long: 32.314042, -103.709243

NMOCD Incident ID & Incident Date: NAPP2111341246 4/18/2021

2-Day Notification Sent: via Email by Gio Gomez 9/19/2022

Inspection Date: 9/22/2022

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		Rainwater
Does the liner have integrity to contain a leak?	X		

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

Inspector Name: Ned Rogers                      Inspector Signature: Ned Rogers

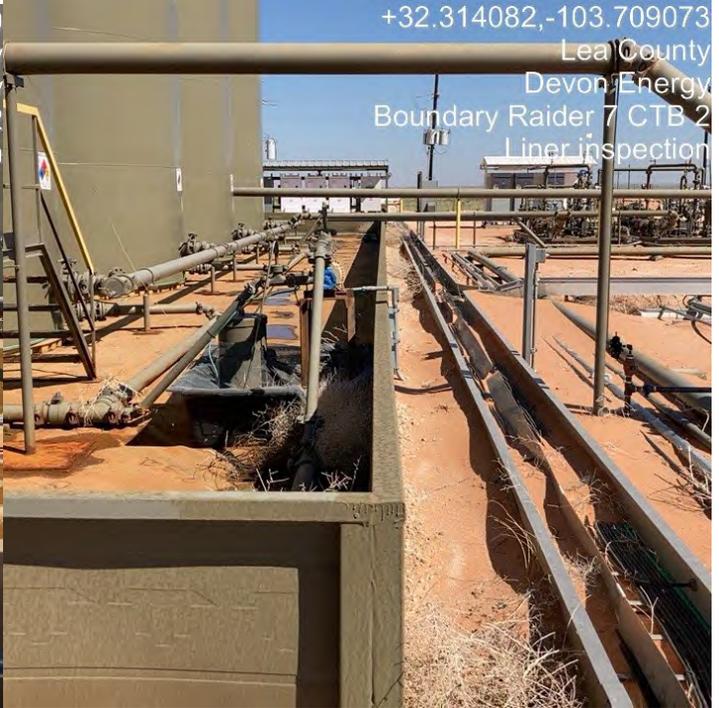


**SITE PHOTOGRAPHS**  
**DEVON ENERGY**  
**LINER INSPECTION**  
**BOUNDARY RAIDER 7 CTB 2**

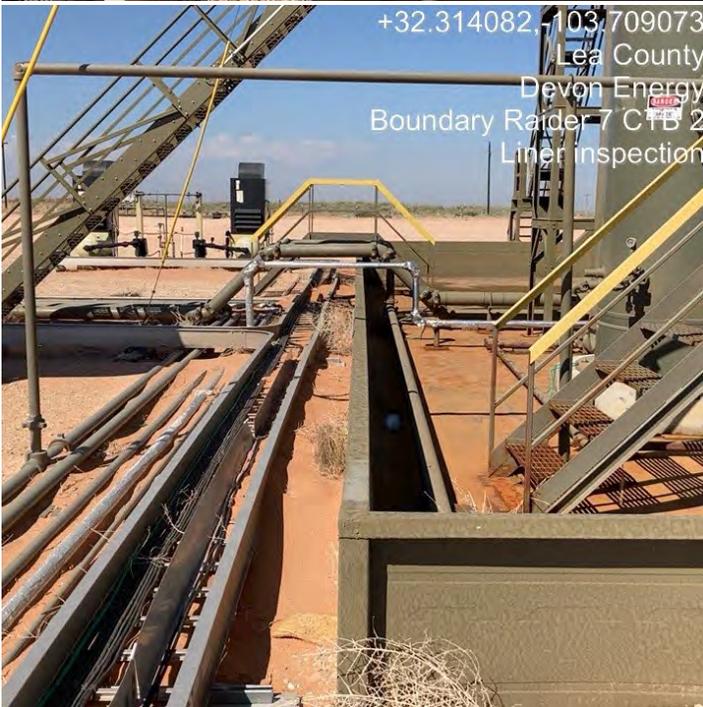




+32.314381,-103.709140  
Lea County  
Devon Energy  
Boundary Raider 7 CTB 2  
Liner inspection



+32.314082,-103.709073  
Lea County  
Devon Energy  
Boundary Raider 7 CTB 2  
Liner inspection



+32.314082,-103.709073  
Lea County  
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Liner inspection



+32.314066,-103.709286  
Lea County  
Devon Energy  
Boundary Raider 7 CTB 2  
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**

CONDITIONS

Action 157432

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 157432
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	12/5/2022