



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

June 22, 2022

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

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

**RE: Liner Inspection and Closure Report
Thistle Unit #52H
API No. 30-025-41897
GPS: Latitude 32.2824745 Longitude -103.5799866
UL- C, Section 28, Township 23S, Range 33E
NMOCD Reference No. NJXK1619355827**

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to perform a liner inspection and prepare this closure report for a crude oil release that happened at the Thistle Unit #52H (Thistle). An initial C-141 was submitted on July 11, 2016, and can be found in Appendix B. This incident was assigned Incident ID NJXK1619355827, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Thistle is located approximately twenty-eight (28) miles West of Eunice, NM. This spill site is in Unit C, Section 28, Township 23S, Range 33E, Latitude 32.2824745 Longitude -103.5799866, 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 400 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 471 feet BGS. See Appendix A for referenced water surveys. The Thistle is in a low karst area (Figure 3). A Topographic Map can be found in Figure 2.

Release Information

NJXK1619355827: On July 10, 2016, an equalizer line was closed and developed a released from the thief hatch of crude oil into lined containment. Approximately 6 barrels (bbls) of crude oil was released. A vacuum truck was dispatched and recovered all 6 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 June 17, 2022, 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, NJXK1619355827 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.

Respectfully,

Tom Bynum

Tom Bynum
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

Thistle Unit 52H

Devon Energy
P#30-025-41897
Lea County, NM
Location Map

Released to Imaging: 10/26/2022 9:41:15 AM

Legend

Thistle Unit 52H

Thistle Unit 52H

Oil Center

Eunice

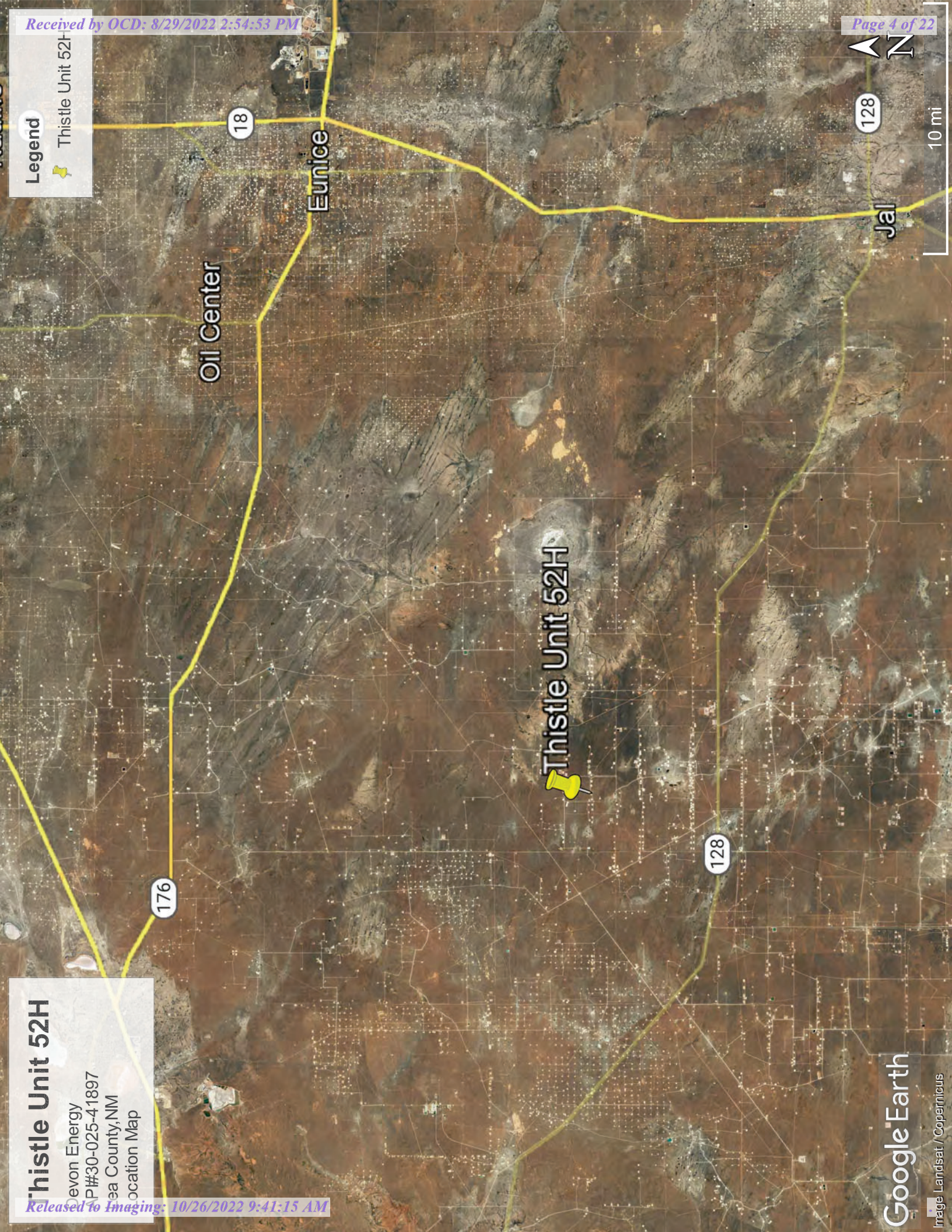
Jalisco

Google Earth

Image Landsat / Copernicus



10 mi



Thistle Unit 52H

Devon Energy
P#30-025-41897
Lea County, NM
Topographic Map

Released to Imaging: 10/26/2022 9:41:15 AM

Legend

Thistle Unit 52H

Thistle Unit 52H

Google Earth

4000 ft

Legend

- High Karst
- Low Karst
- Medium Karst
- Thistle Unit 52H

Thistle Unit 52H

Devon Energy
P#30-025-41897
Lea County, NM
Karst Map

Released to Imaging: 10/26/2022 9:41:15 AM

Thistle Unit 52H

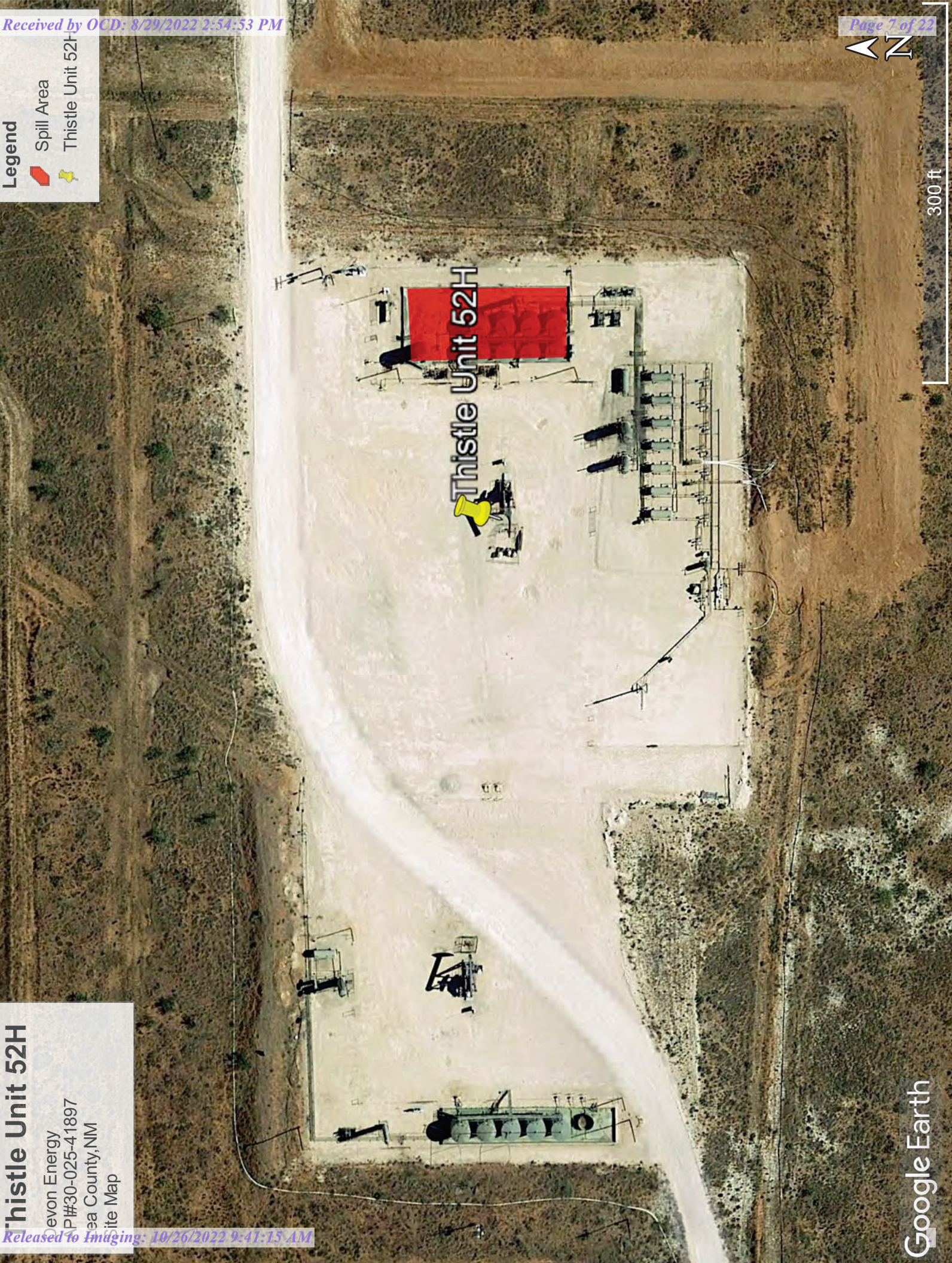
Thistle Unit 52H

Devon Energy
PI#30-025-41897
Lea County, NM
Site Map

Released to Imaging: 10/26/2022 9:41:15 AM

Legend

- Spill Area
- Thistle Unit 52H





Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS



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
C 02278		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	996	650	400	250
C 02277		CUB	LE	2	3	4	20	23S	33E	632663	3572970*	1111	550	400	150
C 02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	1296	650	400	250
C 02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	1458	650	400	250
C 02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	1641	545	400	145
C 02276		CUB	LE	3	1	4	19	23S	33E	630848	3573154*	2920	650	400	250
C 02275		CUB	LE	3	3	2	19	23S	33E	630843	3573557*	3024	650	400	250
C 04595 POD1		CUB	LE	4	3	3	34	23S	33E	635150	3569564	3382	55		
C 03582 POD1		C	LE	4	1	1	14	23S	33E	636583	3575666	4171	590		
C 02283		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	4178	325	225	100
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518	4230			
C 02284		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	4304	325	225	100
C 04551 POD1		CUB	LE	4	4	3	31	23S	33E	630671	3569556	4331			
C 02282		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	4380	325	225	100

Average Depth to Water: **347 feet**

Minimum Depth: **225 feet**

Maximum Depth: **400 feet**

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 633721.81

Northing (Y): 3572631.11

Radius: 5000

*UTM location was derived from PLSS - see Help

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

6/15/22 11:35 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 =

- 321746103352301

Minimum number of levels = 1

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

USGS 321746103352301 23S.33E.17.42331

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°17'46", Longitude 103°35'23" NAD27

Land-surface elevation 3,699 feet above NAVD88

The depth of the well is 550 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

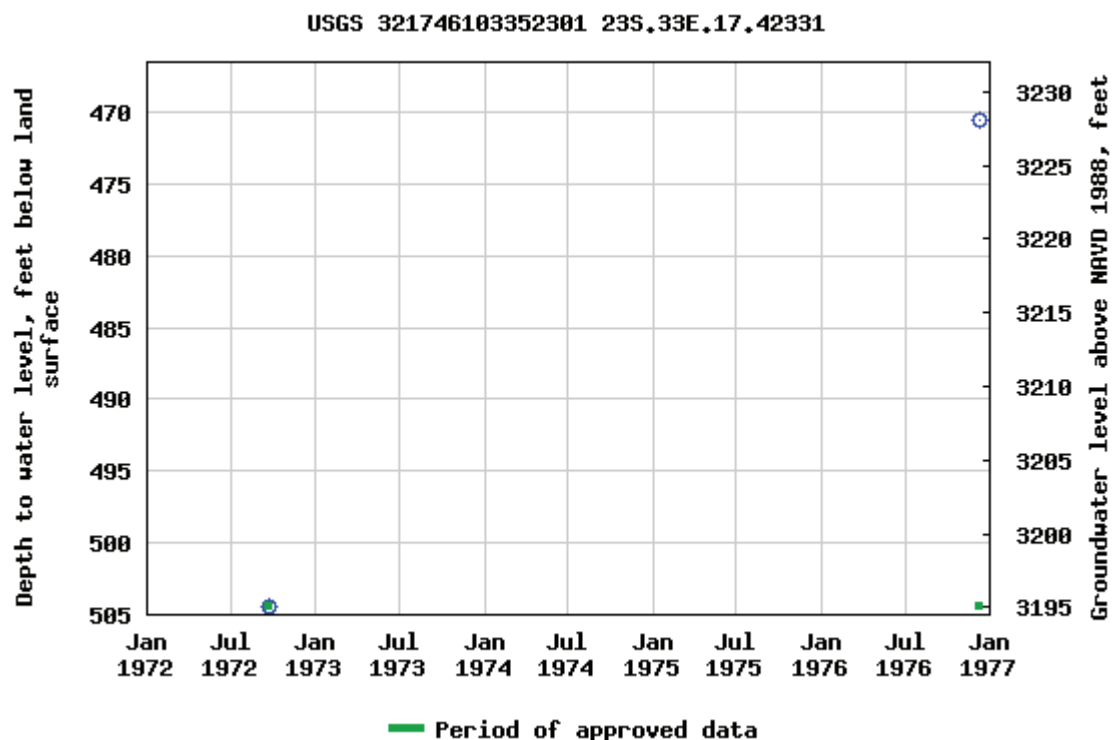
Output formats

[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: 2022-06-15 13:36:49 EDT

0.62 0.5 nadww02





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



Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report

☒ Final Report

Name of Company Devon Energy Production Company	Contact Randall Gladden, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-9463
Facility Name Thistle Unit #52H	Facility Type Oil
Surface Owner Private	Mineral Owner Federal
API No 30-025-41897	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	28	23S	33E	180	North	1795	West	Lea

Latitude: 32.2824745 **Longitude:** -103.5799866

NATURE OF RELEASE

Type of Release Oil	Volume of Release 6 BBLS	Volume Recovered 6 BBLS
Source of Release Thief hatch	Date and Hour of Occurrence 7/10/2016 @ 9:05pm	Date and Hour of Discovery 7/10/2016 @ 9:05pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM-Shelly Tucker OCD-Jamie Keyes	
By Whom? David Simmons, Assistant Production Foreman	Date and Hour BLM - 7/10/2016 @ 9:30pm OCD - 7/10/2016 @ 9:36pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* 6 BBLS oil overflowed from the Thief hatch on the top of the oil tank due to a closed Equalizer line. The Equalizer line was opened so oil could flow through line to other oil tank to prevent further release. All tanks returned to operation.		
Describe Area Affected and Cleanup Action Taken.* 6 BBLS of oil was released from the Thief hatch on top of oil tank into lined containment. All 6 BBLS oil remained in lined containment. Liner was checked for holes, no holes were found in the liner. Vacuum truck recovered all 6 BBLS of the released oil. No further action is necessary.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: Sarah Gallegos-Troublefield	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: Sarah Gallegos-Troublefield		
Title: Field Admin Support	Approval Date: 07/11/2016	Expiration Date: ///
E-mail Address: Sarah.Gallegos-Troublefield@dv.com	Conditions of Approval: ///	Attached <input type="checkbox"/> IRP 4346
Date: 7/11/2016 Phone: 575.748.1864		

* Attach Additional Sheets If Necessary

nJXK1619355827
pJXK1619355912

Incident ID	NJXK1619355827
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>400</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.

Incident ID	NJXK1619355827
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: Wes Mathews Title: EHS Professional
Signature: Wesley Mathews Date: 6/20/2022
email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Received by: Jocelyn Harimon Date: 08/29/2022

Incident ID	NJXK1619355827
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: Wes Mathews

Title: EHS Professional

Signature: Wesley Mathews

Date: 6/20/2022

email: wesley.mathews@dvn.com

Telephone: 575-513-8608

OCD Only

Received by: Jocelyn Harimon

Date: 08/29/2022

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: Brittany Hall

Date: 10/26/2022

Printed Name: Brittany Hall

Title: Environmental Specialist



Gio PimaOil <gio@pimaoil.com>

Thistle Unit 52H Liner Inspection

1 message

Gio PimaOil <gio@pimaoil.com>

Tue, Jun 14, 2022 at 3:49 PM

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

Good Afternoon,

Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Thistle Unit 52H for incident NJXK1619355827. Pima personnel are scheduled to be on site for this Inspection event at approximately 6:00 a.m. On Friday, June 17, 2022. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez
Environmental 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 FormCompany Name: Devon EnergySite: Thistle Unit 52HLat/Long: 32.2824745, -103.5799866NMOCD Incident ID
& Incident Date: NJXK1619355827 7/10/20162-Day Notification
Sent: via Email by Gio Gomez 6/14/2022Inspection Date: 6/17/2022

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

Other: _____

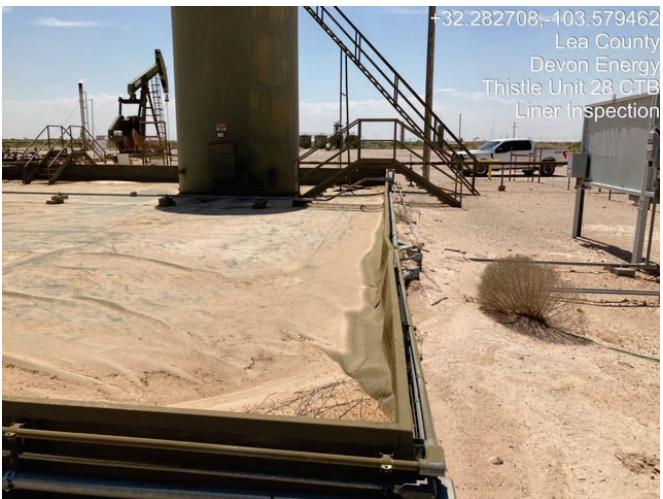
Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?		X	
Does the liner have integrity to contain a leak?	X		

Comments: _____

Inspector Name: Ned Rogers Inspector Signature: Ned Rogers



SITE PHOTOGRAPHS DEVON ENERGY – LINER INSPECTION





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 139048

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 139048
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	10/26/2022