

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

June 24, 2022

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

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

**RE:** Liner Inspection and Closure Report

Thistle Unit 22 CTB 2

API No. N/A

GPS: Latitude 32.295396 Longitude -103.554493 UL- A, Section 22, Township 23S, Range 33E NMOCD Reference No. NRM2033639744

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/produced water mixed release that happened at the Thistle Unit 22 CTB 2 (Thistle). An initial C-141 was submitted on November 19, 2020, and can be found in Appendix B. This incident was assigned Incident ID NRM2033639744, by the New Mexico Oil Conservation Division (NMOCD).

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

The Thistle is located approximately twenty-five (25) miles West of Eunice, NM. This spill site is in Unit A, Section 22, Township 23S, Range 33E, Latitude 32.295396 Longitude -103.554493, 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 225 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 146 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**

NRM2033639744: On November 12, 2020, A tank ran over causing fluid release into lined containment. Approximately 162.20 barrels (bbls) of produced water and 21 barrels (bbls) of Crude Oil was released. A vacuum truck was dispatched and recovered all 183.2 bbls of total 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 9, 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, NRM2033639744 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

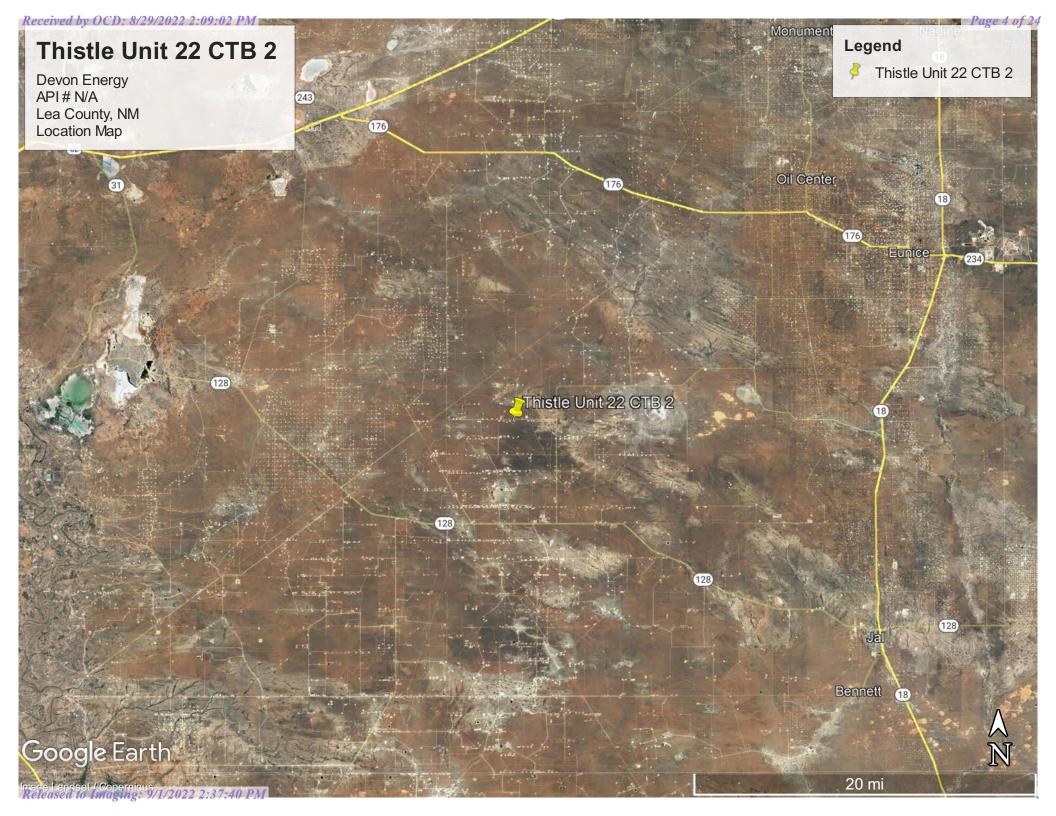
Appendix B- C-141 Form & 48 Hour Notification

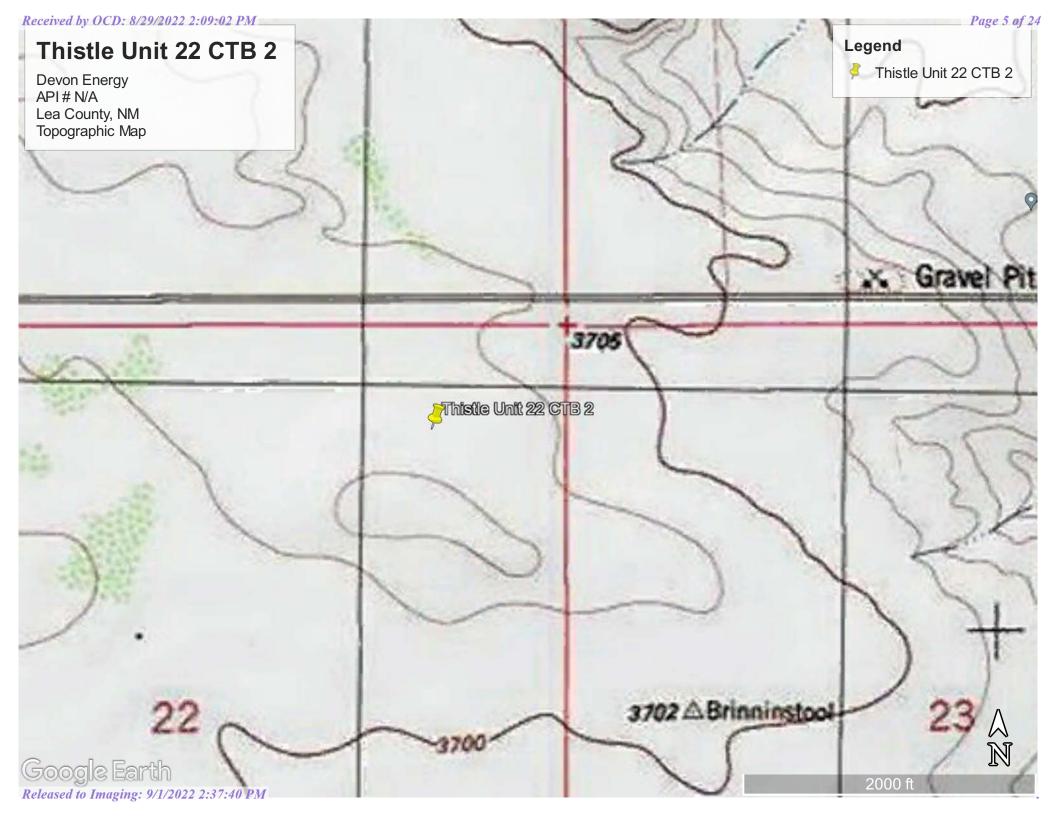
Appendix C- Liner Inspection Form & Photographic Documentation

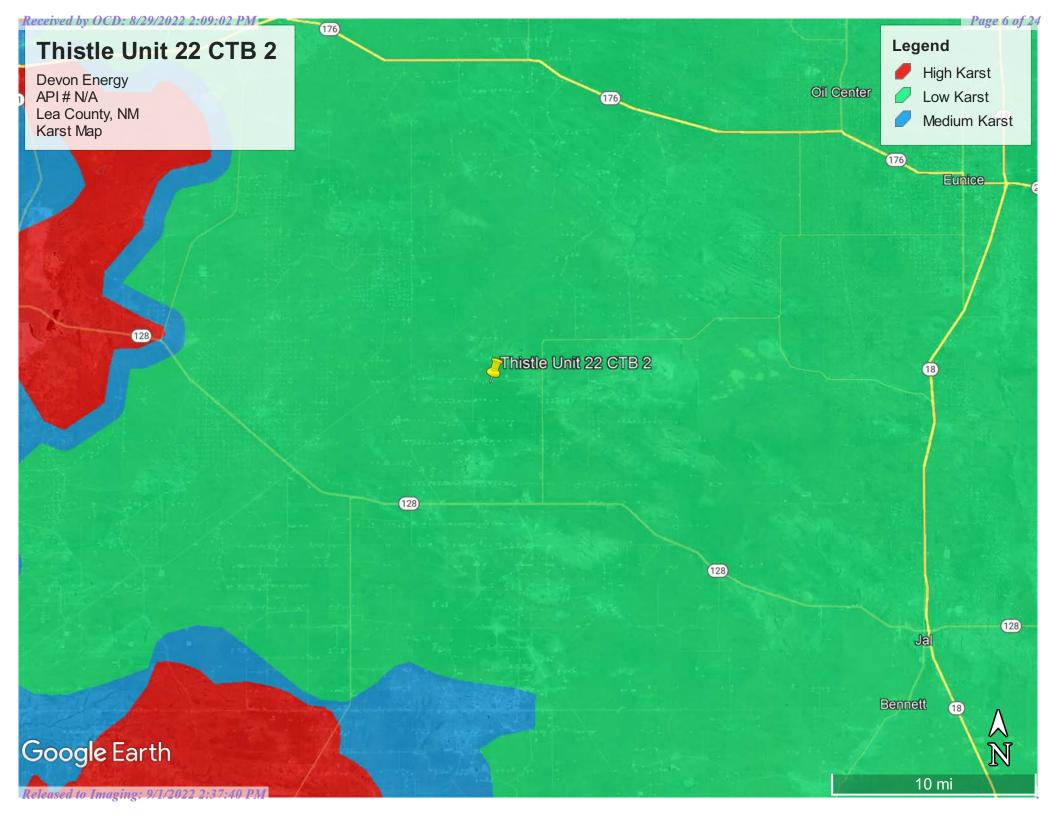


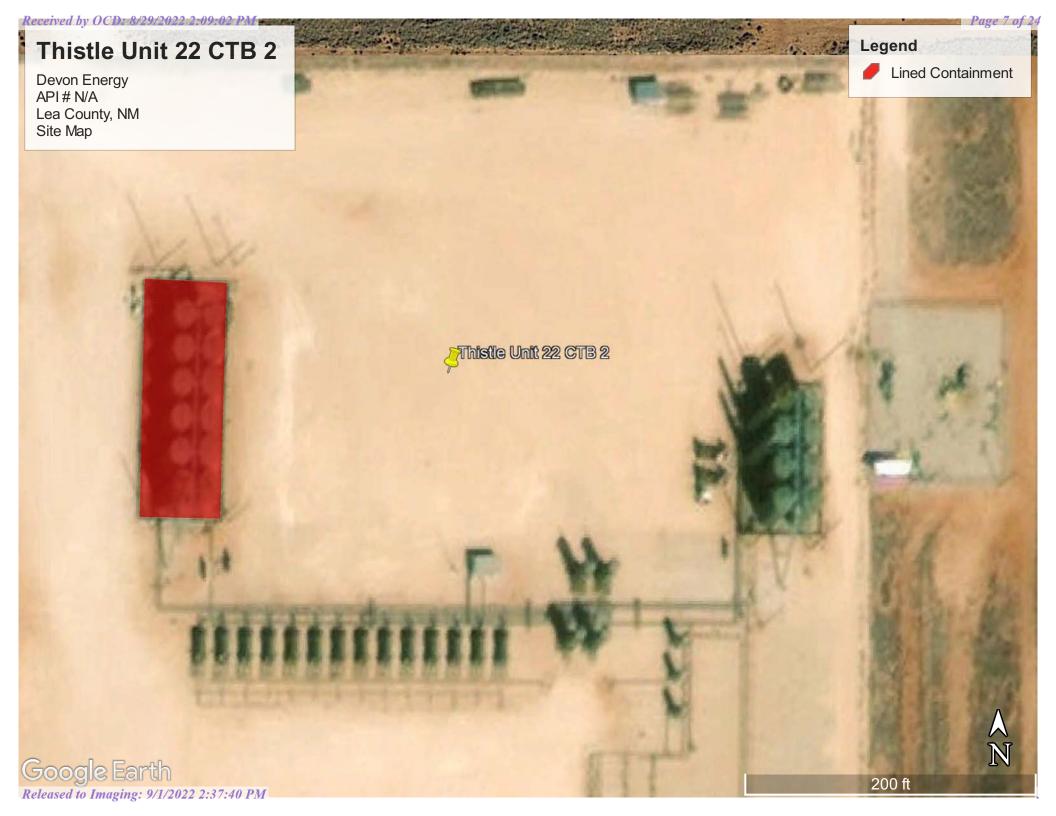
# Figures:

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











# 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													
		Sub-		Q	Q	Q								•	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDep	thWater C	olumn
<u>C 03582 POD1</u>		C	LE	4	1	1	14	23S	33E	636583	3575666	1650	590		
<u>C 02283</u>		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	2447	325	225	100
<u>C 02282</u>		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	2596	325	225	100
<u>C 02278</u>		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	2648	650	400	250
<u>C 02280</u>		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	2975	650	400	250
<u>C 02284</u>		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	3057	325	225	100
<u>C 02281</u>		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	3318	545	400	145
C 04353 POD1		CUB	ED	4	2	2	24	23S	33E	639474	3574098	3377	603	330	273
<u>C 02277</u>		CUB	LE	2	3	4	20	23S	33E	632663	3572970*	3611	550	400	150
<u>C 02279</u>		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	3780	650	400	250
C 04595 POD1		CUB	LE	4	3	3	34	23S	33E	635150	3569564 🌑	4622	55		

Average Depth to Water:

333 feet

Minimum Depth:

225 feet

Maximum Depth: 400 feet

Record Count: 11

UTMNAD83 Radius Search (in meters):

**Easting (X):** 636096.72 **Northing (Y):** 3574089.51 **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.

6/10/22 2:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

### **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

■ Important: <u>Next Generation Monitoring Location Page</u>

### Search Results -- 1 sites found

site\_no list =

• 321609103321701

### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

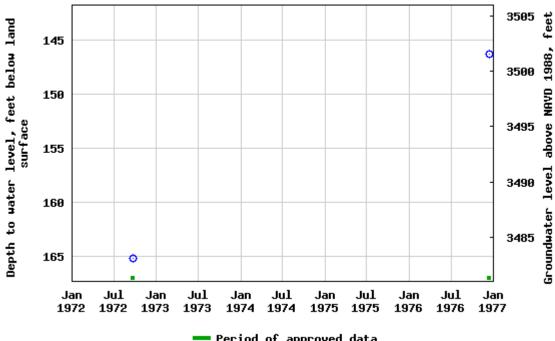
### USGS 321609103321701 23S.33E.26.421342

Available data for this site	Groundwater:	Field measurements	<b>✓</b> [ GO ]	
Lea County, New Mexico				
Hydrologic Unit Code 1307	0007			
Latitude 32°16'09", Longit	tude 103°3	2'17" NAD27		
Land-surface elevation 3,6	48 feet abo	ve NAVD88		
The depth of the well is 17	3 feet belov	w land surface.		
This well is completed in th	ne Other aq	uifers (N9999OTh	HER) nationa	al aquifer.
This well is completed in th	ne Chinle Fo	rmation (231CHI	NL) local aqu	uifer.

**Output formats** 

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

#### USGS 321609103321701 235.33E.26.421342



- Period of approved data

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 <u>Help</u> **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: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-06-10 16:57:26 EDT

0.58 0.49 nadww02





# 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	NRM2033639744
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party				OGRID	OGRID			
Contact Nam	ne			Contact Te	Contact Telephone			
Contact email				Incident #	Incident # (assigned by OCD)			
Contact mail	ing address			1				
			T	an i				
			Location	of Release So	ource			
Latitude				Longitude _				
			(NAD 83 in de	cimal degrees to 5 decim	nal places)			
Site Name				Site Type				
Date Release	Discovered			API# (if app	licable)			
Unit Letter	Section	Township	Range	Coun	ntv	7		
Cint Ection	Section	10 wilsimp	range		,	1		
Surface Owner	r: State	☐ Federal ☐ Tr	ribal Private (A	Name:		)		
			Notare on	d Walssmaac f I	Dalaasa			
			Nature and	d Volume of I	Keiease			
				calculations or specific		e volumes provided below)		
Crude Oi		Volume Release			Volume Reco			
Produced	Water	Volume Release	• •		Volume Recovered (bbls)			
			tion of total dissol water >10,000 mg		☐ Yes ☐ No			
Condensa	ite	Volume Release		2/1:	Volume Reco	overed (bbls)		
Natural G	ias	Volume Release	ed (Mcf)		Volume Recovered (Mcf)			
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)			
,	,		· ·	,		<b>.</b>		
Cause of Rel	ease	l						

Received by OCD: 8/29/2022/2:09:02/PM1 State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NRM2033639744
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or c	ikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
D. 10.15.20.0 D. (4) NR		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	post of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature: Kendra	De Hoyos	
email:		Telephone:
OCD Only		
Received by: Ramona	Marcus	Date: 12/1/2020

Spills In Lined Co	ontainment
Measurements Of S	Standing Fluid
Length(Ft)	138
Width(Ft)	58
Depth(in.)	2.15
Total Capacity without tank displacements (bbls)	255.41
No. of 500 bbl Tanks In	
Standing Fluid	12
No. of Other Tanks In	
Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	183.20

te of New Mexico

Incident ID	NRM2033639744
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?	146 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🏻 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🛛 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🛛 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?	☐ Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🏻 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes 🛛 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	S.

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.

Received by OCD: 8/29/2022 2:09:02 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Incident ID NRM2033639744

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 Wesley Mathews Date: 6/24/2022 Signature:  $_{email:}\ we sley. mathews @ \ dvn. com$ Telephone: \_575-513-8608 **OCD Only** Jocelyn Harimon Received by: 08/30/2022

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Incident ID	NRM2033639744
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 is	tems must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC				
Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in				
Printed Name: Wes Mathews	EHS Professional				
Signature: Wesley Mathews	Date: 6/24/2022				
email: wesley.mathews@dvn.com	Telephone: 575-513-8608				
OCD Only					
Received by: Jocelyn Harimon	Date:08/30/2022				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.				
Closure Approved by: Jennifer Nobui	Date:09/01/2022				
Printed Name:Jennifer Nobui	Title:Environmental Specialist A				



Gio PimaOil <gio@pimaoil.com>

## Thisle Unit 22 CTB 2 Liner Inspection

1 message

Gio PimaOil <gio@pimaoil.com> To: ocdonline@state.nm.us

Mon, Jun 6, 2022 at 9:20 AM

Good Morning,

Pima Environmental would like to no fy you that we will be conduc ng a liner Inspec on at the Thistle Unit 22 CTB 2 for incident NRM2033369744. Pima personnel are scheduled to be on site for this Inspec on event at approximately 11:00 a.m. On Thursday, June 9, 2022. If you have any ques ons 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.



# Appendix C

Liner Inspection Form

Photographic Documentation



# **Liner Inspection Form**

Company Name:	D <u>evon I</u>	Energy				
Site:	This	tle Un	it 22 CTB			
Lat/Long:	32.2	32.295341, -103.554565				
NMOCD Incident ID & Incident Date:	NR	M203	3639744	11/12/2020		
2-Day Notification Sent:	via E	mail b	y Gio Gomez	_6/6/2022		
Inspection Date:	6/9/2	2022_				
Liner Type:	Earthen	w/line	r	Earthen no liner	Polystar	
	Steel w/	poly li	ner	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: <u>Ne</u>	d Roger	<u>s</u>	_ Inspector Si	gnature <u>: Ned Rogers</u>		











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

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 138972

### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	138972
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved.	9/1/2022