

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

January 10, 2023

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 Gaucho Unit 6H CTB API No. N/A GPS: Latitude 32.386298 Longitude -103.485981 UL- P, Section 17, Township 22S, Range 34E, Lea County, NM NMOCD Reference No. NAPP2230630561

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 Gaucho Unit 6H CTB (Gaucho). An initial C-141 was submitted on November 15, 2022, and can be found in Appendix B. This incident was assigned Incident ID NAPP2230630561, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Gaucho is located approximately nineteen (19) miles west of Eunice, NM. This spill site is in Unit P, Section 17, Township 22S, Range 22E, Latitude 32.386298 Longitude -103.485981, 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 605 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is greater than 388 feet BGS. See Appendix A for referenced water surveys. The Gaucho is in a low karst area (Figure 3). A Topographic Map can be found in Figure 2.

Release Information

NAPP2230630561: On November 11, 2022. A connection to a tank developed a leak. Approximately 52 barrels (bbls) of produced water was released from tank connection. A vacuum truck was dispatched and recovered all 52 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 December 31, 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, NAPP2230630561 be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 575-964-7740 or Gio@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

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Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map











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 (R=POD has POD suffix indicates the been replaced, POD has been replaced O=orphaned, & no longer serves a (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is water right file.) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) closed) POD Sub-Q Q QWater DistanceDepthWellDepthWater Column basin County 64 16 4 Sec Tws Rng **POD** Number Y Code Х CP 00865 POD1 CP LE 2 2 3 20 22S 34E 641845 3583118 🦲 1288 885 605 280 CP 01722 POD1 CP LE 4 4 2 18 22S 34E 640964 3584949 🧰 1633 1122 785 337 34E 3584182 🦲 CP 01362 POD1 CP LE 4 4 18 22S 640809 1637 1032 613 419 3 3584515 🦲 CP 01455 POD1 CP LE 4 1 4 18 22S 34E 640574 1887 1033 615 418 CP 01723 POD1 CP LE 4 1 18 22S 34E 640117 3584905 🦲 2415 1140 785 355 4 CP 01721 POD1 CP LE 2 18 228 34E 640181 3585244 🧲 1108 820 288 4 1 2468 CP 01720 POD1 CP LE 1 3 2 08 22S 34E 642003 3586723 🧧 2502 1190 824 366 CP 00597 POD1 CP LE 2 2 08 22S 34E 642410 3587074* 🧲 2814 35 CP 01725 POD1 CP 1 2 18 22S 34E 639914 3585521 🦲 2827 800 337 LE 1 1137 <u>CP 00744</u> CP LE 1 2 09 22S 34E 643618 3587091* 🧧 3065 460 CP 01724 POD1 CP LE 1 1 18 22S 34E 639475 3585260 🦲 3133 1172 800 372 3 <u>CP 00704</u> CP 22 22S 34E 3583097* 🧉 3439 600 LE 2 4 645681 CP 00592 POD1 CP ED 3 2 13 22S 33E 638834 3585015* 🧧 3688 427 CP 01803 POD1 CP LE 34 22S 34E 644357 3580786 🦲 240 180 60 1 1 1 3964 CP 01826 POD1 3580778 🧲 CP 22S 34E 698 LE 1 1 1 34 644379 3982 180 518 CP 01740 POD1 CP LE 1 1 1 34 22S 34E 644402 3580765 🧲 4004 600 560 40 CP 01706 POD1 CP LE 4 2 32 22S 34E 642603 3580185 🧧 4076 340 282 58 4 CP 01705 POD1 CP 2 22S 34E 3580179 🧲 700 305 LE 4 4 32 642588 4082 395 CP 01829 POD1 CP 4 4 2 32 22S 34E 1410 1150 260 LE 642559 3580172 4088 CP 00598 POD1 CP LE 4 1 23 22S 34E 646480 3583511* 🦲 4104 70 CP 01683 POD1 CP 2 3 2 34F LE 23 22S 646949 3583562 🦲 4558 300 CP 03 22S 34E 109 70 39 CP 00944 POD1 LE 3 1 644531 3588351 🧲 4592 CP 01684 POD1 CP LE 2 1 4 23 22S 34E 646932 3583129 🧧 4628 300 34E 3583992 🦲 CP 01682 POD1 CP 294 LE 1 2 2 23 22S 647164 4726 42 252 CP 00622 CP 34E LE 3 4 2 14 228 647164 3585030* 🧰 4782 Average Depth to Water: 553 feet Minimum Depth: 42 feet Maximum Depth: 1150 feet Record Count: 25 UTMNAD83 Radius Search (in meters): Easting (X): 642444.33 Northing (Y): 3584259.37 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.



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 =

• 322331103312701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322331103312701 22S.33E.13.14242

Available data for this site Groundwater: Field measurements V GO

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°23'31", Longitude 103°31'27" NAD27 Land-surface elevation 3,507 feet above NAVD88 The depth of the well is 490 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Chinle Formation (231CHNL) 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. <u>Download a presentation-quality graph</u>

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: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-06-15 16:54:51 EDT 0.52 0.46 nadww02



U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands Map



January 11, 2023

Wetlands

- Estuarine and Marine Deepwater

 - Estuarine and Marine Wetland
- - - **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other 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.

Released to Imaging: 2/10/2023 2:47:39 PM

Legend^{Page 13 of 27} Received by OCD: 1/25/2023 1:32:26 PM Gaucho Unit 6 \$ Gaucho Unit 6 Devon Energy API#30-025-34789 Playa 26 miles Lea County,NM Surface Water Map 62 Nac 18 176 Oil Center Eunice Gaucho Unit 6 . i.e. 128 Google Earth Released to Imaging: 2/10/2023 2:47:39 PM Image Landsat / Copernicus 10 mi

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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

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Longitude

Latitude		

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

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)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Incident ID	
District RP	
Facility ID	
Application ID	

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

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.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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.

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:	Title:
Signature: Kendra Ruiz	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:11/15/2022

Spills In Lined Containment		
Measurements Of Standing Fluid		
Length (Ft)	110	
Width(Ft)	30	
Depth(in.)	1.63	
Total Capacity without tank displacements (bbls)	79.84	
No. of 500 bbl Tanks In Standing Fluid	6	
No. of Other Tanks In Standing Fluid	0	
OD Of Other Tanks In Standing Fluid(feet)		
Total Volume of standing fluid accounting for tank displacement.	52.46	

Received by OCD: 1/25/2023 1:32:26 PM Form C-141 State of New Mexico

Oil Conservation Division

	1 450 10 01
Incident ID	NAPP2230630561
District RP	
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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?	(ft bgs)
Did this release impact groundwater or surface water?	Yes X 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 д 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 X 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 д No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes ᡵ No
Did the release impact areas not 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 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.

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

Received by OCD: 1/25/202	3 1:32:26 PM			Page 19 of 27
Page 4	Oil Conservation Divisi	ion	Incident ID District RP Facility ID	NAPP2230630561
			Application ID	
I hereby certify that the infor regulations all operators are public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Dale W Signature: Dale Wood	mation given above is true and complete to required to report and/or file certain release nent. The acceptance of a C-141 report by the and remediate contamination that pose of a C-141 report does not relieve the operator oodall	o the best of my knowledge a e notifications and perform c the OCD does not relieve the a threat to groundwater, surfa for of responsibility for comp Title: <u>EHS Profe</u> Date: <u>1/25/2023</u>	and understand that pursy prrective actions for rele e operator of liability sho ice water, human health liance with any other feo essional	uant to OCD rules and cases which may endanger ould their operations have or the environment. In deral, state, or local laws
email: <u>dale.woodall@c</u>	lvn.com	Telephone: 405-3	18-4697	
OCD Only Received by: Jocel	yn Harimon	Date:01	//03/2023	

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Oil Conservation Division

Incident ID	NAPP2230630561
District RP	
Facility ID	
Application ID	

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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.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

 \mathbf{x} 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)

x Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

x 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: Dale Woodall	Title: EHS Professional			
Dale Woodall Signature:	Date: <u>1/25/2023</u>			
email:dale.woodall@dvn.com	Telephone: 405-318-4697			
<u>OCD Only</u>				
Received by: Jocelyn Harimon	Date:01/30/2023			
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:02/10/2023			

Title: Environmental Specialist A

Printed Name: Jennifer Nobui



Gio PimaOil <gio@pimaoil.com>

Gaucho Unit 6H Liner Inspection

1 message

Gio PimaOil <gio@pimaoil.com> To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com> Wed, Dec 28, 2022 at 9:14 AM

Good Morning,

Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Gaucho Unit 6H for incident NAPP2230630561. Pima personnel are scheduled to be on site for this Inspection event at approximately 7:00 a.m. On Saturday, December 31, 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.**



Appendix C

Liner Inspection Form

Photographic Documentation

.



Liner Inspection Form

Company Name:	Devon Energy		
Site:	Gaucho Unit 6H CTB		
Lat/Long:	32.386298, -103.485981		
NMOCD Incident ID & Incident Date:	NAPP2230630561	11/1/2022	
2-Day Notification Sent:	<u>via Email by Gio Gomez</u>	12/28/2022	
Inspection Date:	12/31/2022		
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?		Х	
Are there holes in the liner?		Х	
Is the liner retaining any fluids?	Х		Rainwater
Does the liner have integrity to contain a leak?	Х		

Comments:

Inspector Name: <u>Ned Rogers</u>	Inspector Signature:	<u>Ned Rogers</u>	
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SITE PHOTOGRAPHS DEVON ENERGY

GAUCHO UNIT 6H CTB

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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	179590
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	2/10/2023

CONDITIONS

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Action 179590