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	nJMW1321251559
District RP	2RP-1787
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>>100 (ft bgs)</u>
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 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.

\boxtimes	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
\boxtimes	Field data
	Data table of soil contaminant concentration data
\boxtimes	Depth to water determination
\boxtimes	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
	Boring or excavation logs
\boxtimes	Photographs including date and GIS information
\boxtimes	Topographic/Aerial maps
	Laboratory data including chain of custody

Received by OCD:	1/11/2023 9:02:21 AM State of New Mexico			Page 2 of 2
			Incident ID	nJMW1321251559
Page 2	Oil Conservation Divisio	on	District RP	2RP-1787
			Facility ID	
			Application ID	
plan. That plan mu and methods, antici 19.15.29.12 NMAC I hereby certify tha regulations all oper public health or the failed to adequately addition, OCD acc and/or regulations. Printed Name: Signature: Date		e remediated, the propose e remediation. The closur and release-specific param the best of my knowledge an notifications and perform co he OCD does not relieve the threat to groundwater, surface	ed remediation techn re criteria for a releas neters. Ind understand that purs prective actions for rele operator of liability sh ce water, human health iance with any other fe essional 23	ique, proposed sampling plan se are contained in Table 1 of uant to OCD rules and eases which may endanger ould their operations have or the environment. In
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	Jocelyn Harimon	Date:1/11	/2023	

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 mus	t 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 lin must be notified 2 days prior to liner inspection)	er integrity if applicable (Note: appropriate OCD District office
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 b and regulations all operators are required to report and/or file certain releases may endanger public health or the environment. The acceptance of a C-141 is should their operations have failed to adequately investigate and remediate co- human health or the environment. In addition, OCD acceptance of a C-141 r compliance with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions t accordance with 19.15.29.13 NMAC including notification to the OCD where	notifications and perform corrective actions for releases which eport by the OCD does not relieve the operator of liability ontamination that pose a threat to groundwater, surface water, eport does not relieve the operator of responsibility for e responsible party acknowledges they must substantially nat existed prior to the release or their final land use in
Printed Name: Dale Woodall Title:	Env. Professional
Signature: Dale Woodall Date:	1/11/2023
email: dale.woodall@dvn.com Telephone	575-748-1838
OCD Only	
	Date: 1/11/2023
Closure approval by the OCD does not relieve the responsible party of liabilit remediate contamination that poses a threat to groundwater, surface water, hus party of compliance with any other federal, state, or local laws and/or regulat	nan health, or the environment nor does not relieve the responsible
Closure Approved by: Ashley Maxwell	Date:1/12/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist



P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com Page 4 of 22

July 8, 2020

Mr. Tom Bynum Devon Energy Production Company 6488 Seven Rivers Highway Artesia, New Mexico 88210 Email: tom.bynum@dvn.com

Subject: Liner Inspection and Closure Report Cotton Draw 13 Fed 1H 2RP-1787 Eddy County, New Mexico

Dear Mr. Bynum:

Devon Energy Production Company (Devon) (Client) retained HRL Compliance Solutions, Inc. (HRL) to conduct a liner inspection and prepare this closure report for the July 2013 release at the Cotton Draw 13 Fed 1H well pad (Site). The Site is in Eddy County, New Mexico (Figure 1).

Release Summary and Initial Response

On July 24, 2020, a release of 100 barrels (bbls) of produced water was observed at the Site. The release occurred when a water truck backed into a load line which subsequently broke the fiberglass water tank. The entire release was contained within the lined secondary containment. Initial response activities included shutting in the well, recovering 100 bbls of produced water, and repairing the tank. On July 29, 2013, the C-141 (Attachment A) was submitted to the New Mexico Oil Conservation Division (NMOCD).

Item	Discussion
Site Name	Cotton Draw 13 Fed 1H
Latitude	32.12393209
Longitude	-103.73801156
Township/Range/Section/Unit	Township 25 South/ Range 31 East/ Section 13/Unit M
Date Release Discovered	July 24, 2013
Cause of Release	A truck backed into a water line which subsequently broke the fiberglass water tank
Type of Material Released	Produced Water
Volume Release	100 barrels
Volume Recovered	100 barrels

INNOVATIVE SOLUTIONS DELIVERED

Mr. Tom Bynum Page 2



Liner Inspection

On June 22, 2020, after the released fluid was removed, HRL conducted an inspection to evaluate the integrity of the liner (Attachment B, Photographs). No tears or holes were observed in the liner and the liner was retaining a small amount of oil. Based on this inspection, HRL has determined that the liner remains intact and had the ability to contain the release (Attachment C, Inspection Form).

New Mexico Administrative Code (NMAC) Site Characterization Criteria

Title 19, Chapter 15, Part 29, Section 11 of the New Mexico Administrative Code (NMAC) provides requirements for release characterization once the free liquids and recoverable materials have been removed from the Site.

Site Map

A scaled diagram depicting the site and nearby significant features has been prepared (Figure 1).

Depth to Groundwater

Depth to groundwater at the release was estimated by evaluating data from the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) (Figure 2). The nearest groundwater well was approximately 2.5 miles from the Site; the depth to water in this well was 390.25 feet below ground surface (bgs).

Wellhead Protection Area

There are no sources of water, including springs, wells, or other sources of fresh water, within one-half mile of the release.

Distance to Nearest Significant Watercourse

A significant watercourse is defined as "...a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank" (19.15.17.7 NMAC). There are no significant watercourses within one –half mile of the Site.

Additional Site Characterization Criteria

The following additional site characterization criteria were evaluated for the release.

Cotton Draw 13 Fed 1H July 8, 2020 Mr. Tom Bynum Page 3



Site Characterization	Response/Discussion		
What is the shallowest depth to groundwater beneath the area affected by the release?	Greater than 100 feet		
Did the release impact groundwater or surface water?	No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or other significant watercourse?	No		
Are the lateral extents of the release within 200 feet of a lakebed, sinkhole, or playa lake?	No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital institution, or church?	No		
Are the lateral extents of the release within 500 feet of a spring or private, domestic fresh water well used by less than five households for domestic or stock watering purposes?	No		
Are the lateral extents of the release within 1,000 feet of any fresh water well or spring?	No		
Are the lateral extents of the release within any incorporated municipal boundaries?	No		
Are the lateral extents of the release within a defined municipal fresh water well field?	No		
Are the lateral extents of the release within 300 feet of a wetland?	No		
Are the lateral extents of the release overlying a subsurface mine?	No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	The Site is in an area of low potential for karst topography		
Are the lateral extents of the release within the 100-year floodplain?	No		
Did the release impact areas not on an exploration, development, production, or storage site?	No		

Conclusions and Recommendations

The July 24, 2013 release of 100 barrels of produced water was contained within the lined containment structure. HRL has determined that the liner integrity was intact and had the ability to contain the release; therefore, additional characterization of the soil and/or groundwater at the Site is not necessary. HRL recommends closure of this release.

Cotton Draw 13 Fed 1H July 8, 2020

Page 7 of 22

Mr. Tom Bynum Page 4

Scope and Limitations

The scope of HRL's services consists of performing a liner integrity inspection and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin.

If you have any questions or concerns, please do not hesitate to contact me at (970) 243-3271 or via email at jlinn@hrlcomp.com.

Sincerely,

HRL Compliance Solutions, Inc.

julie (

Julie Linn, PG, RG Project Manager

Figures:

Figure 1: Site Location Map Figure 2: Depth to Groundwater Map

Attachments:

Attachment A: NMOCD Form C-141 Attachment B: Photographs Attachment C: Liner Inspection Field Form

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Figures

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Attachment A

NMOCD Form C-141

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000 Rio Brazos Road, Aztec, NM 87410				Submit 1 Copy to appropriate District Office i accordance with 19.15.29 NMAC								
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that was kep	t within the	lined containi	ment. Shu	t in well recovere	d all 10	00 barrels of wa	ater and repaired	tank.				
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		bustamante@c	<u>lvn.com</u>			Conditions o	f Approval:			Attached		
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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	nJMW1321251559
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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>>100 (ft bgs)</u>
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 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.

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

Received by OCD: 1/11/2023 9:0 Form C-141	02:21 AM			Page 14 of 22
			Incident ID	nJMW1321251559
Page 2	Oil Conservation Division		District RP	2RP-1787
			Facility ID	
			Application ID	
and methods, anticipated timeline 19.15.29.12 NMAC, however, use I hereby certify that the informatio regulations all operators are require public health or the environment. ' failed to adequately investigate and	loes not include completed efforts a estimated volume of material to b s for beginning and completing the e of the table is modified by site- a n given above is true and complete to ed to report and/or file certain release The acceptance of a C-141 report by t d remediate contamination that pose a 41 report does not relieve the operato	e remediated, the propose e remediation. The closur and release-specific param the best of my knowledge ar notifications and perform co he OCD does not relieve the threat to groundwater, surface	d remediation technic re criteria for a release teters. Ind understand that purs rrective actions for release operator of liability sh ce water, human health	ique, proposed sampling plan se are contained in Table 1 of uant to OCD rules and eases which may endanger ould their operations have or the environment. In
and/or regulations. Printed Name: Dale W	/oodall		essional	
Signature: Dale Wood				
email: <u>dale.woodall@</u>	dvn.com	Telephone: 575-7	48-1838	
OCD Only				
Received by:		Date:		

Page 3

Oil Conservation Division

Incident ID	nJMW1321251559
District RP	2RP-1787
Facility ID	
Application ID	

Page 15 of 22

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: Dale Woodall Title: Env. Professional
Signature: Dale Woodall Date: 1/11/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838
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:



Attachment B

Photographs





View of the southern half of the containment

View to the north of the containment





View of the northwest corner

View along the southern-most tank, view to the east





View of the northwestern corner

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Attachment C

Liner Inspection Field Form



Liner Inspection Form

Client	Devon Energy
Date of Inspection	6-22-2020
Site Name	Cotton Draw 13 Fed 1 H
Latitude	32.12383100
Longitude	-103.73753499

Observations	Yes	No	Comments		
Is the liner present?	\checkmark				
Is the liner torn?	1		Surficial layer torn- Bottom layer intact		
Are there visible holes in the liner?		\checkmark	0		
Is the liner retaining any liquids?		1			
Does it appear the liner had the ability to contain the leak?					
Type of Liner: Poly Earthen Metal Other (describe below):					

Earthen Poly

Other (describe below): Poly

Other Concerns or Observations:

Inspector Name	Julie Linn	4
Inspector Signature	Julie	

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	174973
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	1/12/2023

Page 22 of 22

Action 174973