

P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

August 6, 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

Ichabod 7 Federal #001H

Incident Number: nOY1726845335

Lea County, New Mexico

Dear Mr. Bynum:

HRL Compliance Solutions, Inc. (HRL) is pleased to submit this liner inspection and closure report for the August 10th, 2017 release at the Ichabod 7 Federal #001H well pad (Site). The Site is at latitude 32.0511932 and longitude -103.5014954 in Lea County, New Mexico (Figure 1).

Release Summary and Initial Response

On August 10th, 2017, a release of 32 barrels of oil was observed at the Site. The release was due to overflow of the oil tank. The released oil remained within the lined steel secondary containment. Initial response activities included stopping the source of the release, securing the impacted area, containing the released materials, and removing free liquids within the secondary containment. 32 barrels of oil were recovered. Devon reported the release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141) (Attachment A). The release was assigned incident number nOY1726845335.

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.

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 the United States Geological Survey (USGS) (Figure 2). The nearest groundwater well was approximately 1 mile from the Site; the depth to water in this well was 200 feet below ground surface (bgs).

INNOVATIVE SOLUTIONS DELIVERED

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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 (Figure 2).

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) (Figure 2). There are no significant watercourses within one-half mile of the lateral extents of the release.

Additional Site Characterization Criteria

The following is additional information related to characterization of the Site.

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

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Site Characterization	Response/Discussion
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

Liner Inspection

On February 5, 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 precipitation. Based on this inspection, HRL has determined that the liner remains intact and had the ability to contain the release (Attachment C, Inspection Form).

Conclusions and Recommendations

The August 10th, 2017 release of 32 barrels of oil at the Site remained within the lined containment. HRL has determined that the liner integrity remains 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.

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 Linn, PG, RG Project Manager

Figures:

Figure 1: Site Location

Ichabod 7 Federal #001H August 6, 2020 Mr. Tom Bynum Page 4



Figure 2: Depth to Groundwater

Attachments:

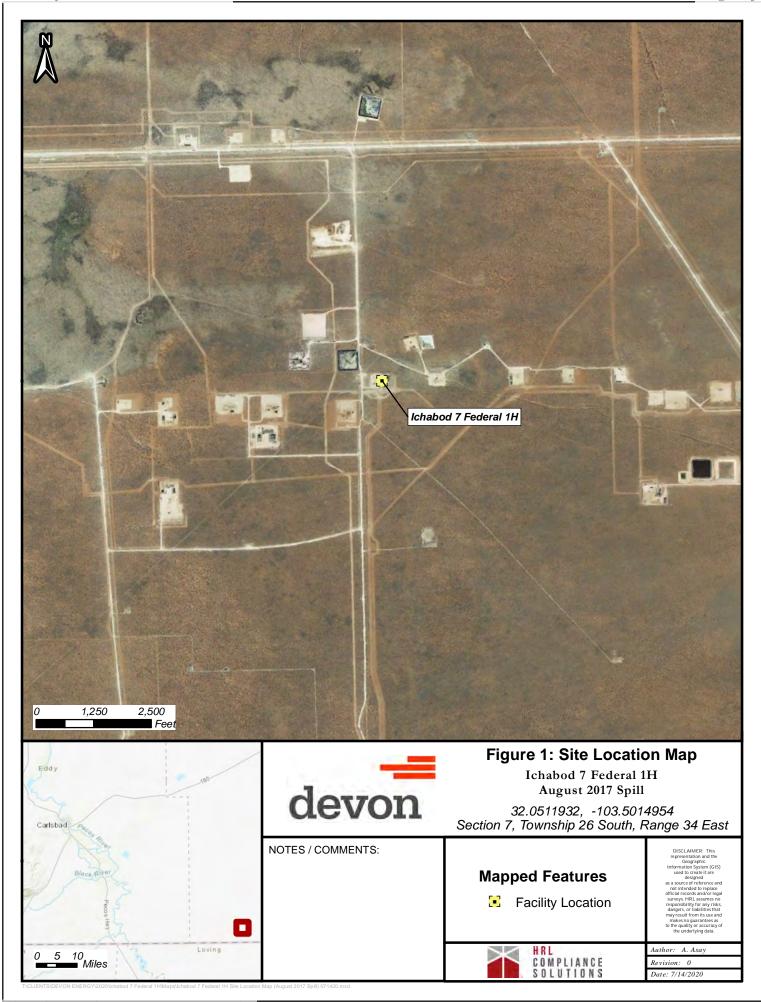
Attachment A: NMOCD Form C-141

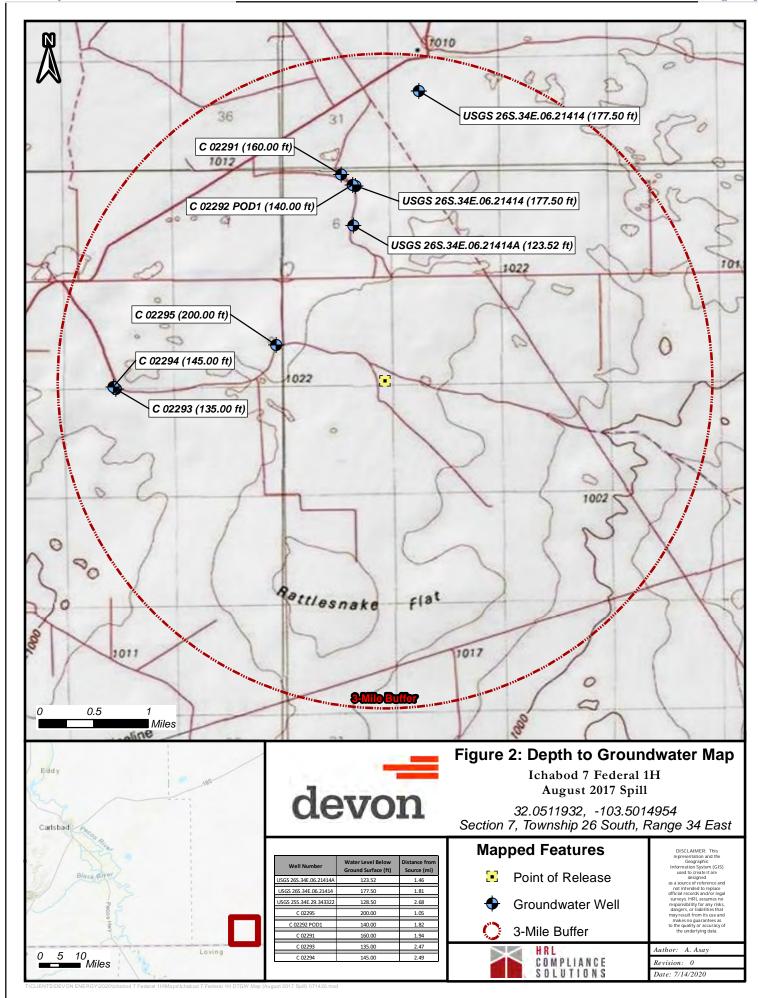
Attachment B: Photographs

Attachment C: Liner Inspection Field Form



Figures







Attachment A

NMOCD Form C-141

Form C-141

Revised August 8, 2011

4441District 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

7

26S

34E

Latitude: 32.0511932

P

State of New Mexico **Energy Minerals and Natural Resources**

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

Lea

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

Release Notification and Corrective Action

	OPERATOR		Final Repor
Name of Company Devon Energy Production Company	Contact Rebecca Jamison, Prod	uction Foreman	
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-5538		
Facility Name Ichabod 7 Federal 1H	Facility Type Oil		

API No 30-025-40043 Surface Owner Federal Mineral Owner Federal LOCATION OF RELEASE East/West Line Unit Letter Section Township Range Feet from the North/South Line Feet from the County

South

330

Longitude:-103.5014954

East

NATURE OF RELEASE				
Type of Release Oil	Volume of Release 32BBLS	Volume Recovered 32BBLS		
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery		
Hole in Oil Storage tank Was Immediate Notice Given?	8/10/2017 @ 5:30 PM If YES, To Whom?	8/10/2017 @5:30 PM		
Yes No Not Required	OCD-Olivia Yu			
-	BLM-Shelly Tucker			
By Whom? Aaron Pina, Asst. Production Foreman	Date and Hour BLM-9/7/2017 @ 2:00 PM			
	OCD-9/7/2017 @ 2:00 PM			
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse		
☐ Yes ⊠ No	DECEIVED			
If a Watercourse was Impacted, Describe Fully.*	RECEIVED			
N/A	By Olivia Yu a	at 12:28 pm, Sep 25, 2017		
Describe Cause of Problem and Remedial Action Taken.* A hole in the oil storage tanks was discovered and resulted in oil release.				
A note in the on storage tanks was discovered and resulted in on release.	on storage tanks overnowed into the	med contamment.		
Describe Area Affected and Cleanup Action Taken.*	ttom of the oil storage tonly. Ammeric	mataly 22DDI C was massyamed via the		
Approximately 32BBLS of oil was released as a result of a hole in the bo dispatched vacuum truck. All fluid stayed inside the lined SPCC contains				
field staff for any pinholes or punctures and none were found. Bas				
containment.	F			
I haraby cartify that the information given above is true and complete to t	he heet of my knowledge and underete	and that pursuant to NMOCD rules and		
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 of federal, state, or local laws and/or regulations.	loes not relieve the operator of respons	sibility for compliance with any other		
reactar, state, or local laws and/or regulations.	OIL CONSERV	VATION DIVISION		
Signature: Dana DeLaRosa	<u>OIL CONSER</u>	VATION BIVISION		
		M,		
Printed Name: Dana DeLaRosa	Approved by Environmental Specialis	st:		
Title: Field Admin Support	Approval Date: 9/25/2017	Expiration Date:		
Title. I feld / tellinii Support	Approvar Date.	Expiration Bate.		
E-mail Address: dana.delarosa@dvn.com	Conditions of Approval:	Attached		
D . 0/00/0015 D1	Please inspect liner in question	. Provide		
(Attack Additional Chapta If Managagemy)	NMOCD with a concise report of			
Attach Additional Sheets II Necessary	inspection with affirmation the			
	and will continue to contain liq	uids. nOY1726845335		

. Released to Imaging: 9/13/2022 11:06:23 AM

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	nOY1726845335
District RP	No-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?	>100 (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 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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical 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 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 			
L			

Received by OCD: 8/7/2020 10:37:52 AM State of New Mexico
Page 2 Oil Conservation Division

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5225			ı	

Incident ID	nOY1726845335
District RP	No-RP
Facility ID	
Application ID	

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.

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

public health or the environment. The acceptance of a C-141 report by the Gailed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Tom Bynum	Title: EHS Consultant
Signature: Tom Bynum	Date: 8/7/2020
email: tom.bynum@dvn.com T	Gelephone: 575-748-3371
OCD Only	
Received by:	Date:

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Incident ID	nOY1726845335
District RP	No-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 item	ns 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 must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC I	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 and regulations all operators are required to report and/or file certain report and/o	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially itions that existed prior to the release or their final land use in
Printed Name: Tom Bynum	Title: EHS Consultant
Signature: Tom Bynum I	Date: 8/7/2020_
email: tom.bynum@dvn.com Tel	ephone: 575-748-3371
OCD Only	
Received by:	Date:
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: Brittany Hall	Date: 9/13/2022
Printed Name: Brittany Hall	Title: _Environmental Specialist
	



Attachment B

Photographs





View of standing water between the tanks in the secondary containment.



View of standing water and ice in the corner of the secondary containment.





View of standing water and ice within the secondary containment.



View of frozen standing water in the corner of the secondary containment.



Attachment C Liner Inspection Field Form



Liner Inspection Form

Client	Dayon Energy				
Date of Inspection	2/5/20				
Site Name	ICHABOD 7	Fed	14		
Latitude	32.051257				
Longitude	-103.501414				
Observations		Yes	No	Comments	
Is the liner present?		V			
Is the liner torn?					
Are there visible holes	in the liner?		1		
Is the liner retaining ar	ny liquids?				
Does it appear the line the leak?	r had the ability to contain				
Type of Liner:	Poly	Earthen	Metal	Other (describe below):	
Other Concerns or Obs	servations:				
Motal Seco	nday Contain	ent			
Standing va	ster up to 2	nches	on no	orth and total	Center
1 ce in se	condary ontain	rent			
Photos Su-	-69				
Inspector Name	April Mc Coul	ey			
Inspector Signature	am				

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 9561

CONDITIONS

Operator:	OGRID:
Pima Environmental Services, LLC	329999
5614 N Lovington Hwy	Action Number:
Hobbs, NM 88240	9561
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create By		Condition Date
bha	I None	9/13/2022