Received by OCD: 10/23/2020 9:34:26 AM



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

October 23, 2020

Ms. Amanda Davis Devon Energy Production Company 6488 Seven Rivers Highway Artesia, New Mexico 88210 Email: Amanda.davis@dvn.com

Subject: Liner Inspection and Closure Report Mean Green 23 Federal #1 Battery Lea County, New Mexico Incident # - NOY1823231809

Dear Ms. Davis:

Devon Energy Production Company (Devon) (Client) retained HRL Compliance Solutions, Inc. (HRL) to conduct a liner inspection and prepare this closure report for the release at the Mean Green 23 Federal #1 Battery pad (Site). The Site is located in Eddy County, New Mexico (Figure 1).

Release Summary and Initial Response

On July 27th, 2018, a power outage caused a water transfer pump to go down on high discharge. This caused a water tank to overflow and release produced water into the lined, secondary containment. Approximately 62 bbls of produced water was released, and all fluid was recovered via a vacuum truck. The liner was inspected for holes/rips and none were found. A 24-hour notification of this event was emailed to the NMOCD and the BLM on July 29th, 2018 at 9:42p.m. On August 2nd, 2018 the C-141 (Attachment A) was submitted to the New Mexico Oil Conservation Division (NMOCD).

Item	Discussion
Site Name	Mean Green 23 Federal #1 Battery
Latitude	32.0216446
Longitude	-104.4332657
Township/Range/Section	Township 26 South/ Range 34 East/ Section 23
Date Release Discovered	July 27, 2018
Cause of Release	Water tank overflowed
Type of Material Released	Produced Water
Volume Release	62 barrels

Ms. Amanda Davis Page 2



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

Based on research from the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS), the depth to groundwater is estimated to range from 51 to 100 feet below ground surface (bgs) (Figure 2).

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.

Additional Site Characterization Criteria	Response/Discussion
Is the Site within 300 feet of a continuously flowing water or other significant watercourse?	No
Is the Site within 200 feet of a lakebed, sinkhole, or playa lake?	No
Is the Site within 300 feet of an occupied permanent residence, school, hospital institution, or church?	No

Ms. Amanda Davis Page 3



Additional Site Characterization Criteria	Response/Discussion
Is the Site 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
Is the Site within 1,000 feet of any fresh water well or spring?	No
Is the Site within 300 feet of a wetland?	No
Is the Site within the area overlying a subsurface mine?	No
Is the Site within an unstable area?	No
Is the Site within the 100-year floodplain?	No

Conclusions and Recommendations

The July 27, 2018 release of 62 barrels of produced water at the Site remained within the lined containment area. 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 Annie McCawley at (970) 259-0926 Ext. 414 or via email at amccawley@hrlcomp.com.

Sincerely,

HRL Compliance Solutions, Inc.

A. McCarley

Annie McCawley Environmental Scientist

Copy: Julie Linn, PG, RG, HRL Compliance Solutions, Inc.

Mean Green 23 Federal #1 Battery February 2020 Ms. Amanda Davis Page 4



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

Mean Green 23 Federal #1 Battery February 2020 Received by OCD: 10/23/2020 9:34:26 AM



Figures

Received by OCD: 10/23/2020 9:31:34 AM







Attachment A

NMOCD Form C-141

State of New Mexico Energy Minerals and Natural Resources

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

Page 9 of 18

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

nOY1823231809

API No. 30-025-41292

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Devon Energy Production Company	Contact Aaron Pina, Production	n Foreman	
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-3371		
Facility Name Mean Green 23 Fed 1H Battery	Facility Type Battery		
	· · · · ·		

		Suri	tace	Owner	Federa	al
--	--	------	------	-------	--------	----

LOCATION OF RELEASE

Mineral Owner Federal

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Р	23	26S	34E	25'	FSL	330'	FEL	Lea

Latitude_32.0216446_Longitude_103.4332657_NAD83

NATURE OF RELEASE

Type of Release	Volume of Release 62bbls	Volume Recovered
Produced Water Source of Release	Date and Hour of Occurrence	62bbls Date and Hour of Discovery
Produced Water Tank	July 27, 2018 @ 8:00 PM	July 27, 2018 @ 8:00 PM
Was Immediate Notice Given?	If YES, To Whom?	July 27, 2018 (2) 8.00 FW
Yes No Not Required		
	Chistina Hernandez, BLM	
By Whom?	Date and Hour	
Brett Fulks, EHS Representative	July 29, 2018 @ 9:42 PM	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse
\square Yes \square No	N/A	
	RECEIVED	
If a Watercourse was Impacted, Describe Fully.*	ALCLIVLD	
N/A	By Olivia Yu a	t 8:56 am, Aug 20, 2018
	by china ra a	c 0.00 am, rug 20, 2010
Describe Cause of Problem and Remedial Action Taken.*		
Power outage caused pump to go down on high discharge, wells were sh	ut in but this well auto started and ran	tank levels over. Truck arrived on site and
immediately started pulling tank levels down.		
Describe Area Affected and Cleanup Action Taken.*		
Approximately 62bbls produced water was released into lined containme	ent. All 62bbls produced water was rec	covered from lined containment.
Containment liner was inspected for holes and none were found.		
I hereby certify that the information given above is true and complete to		
regulations all operators are required to report and/or file certain release		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remedia		
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of respons	sibility for compliance with any other
federal, state, or local laws and/or regulations.		
	<u>OIL CONSERV</u>	VATION DIVISION
		\sim 1
Signature: Sheíla Físher		G
	Approved by Environmental Specialis	st:
Printed Name: Sheila Fisher	г Т	N
	8/20/2018	
Title: Field Admin Support	Approval Date:	Expiration Date:
E-mail Address: Sheila.Fisher@dvn.com	Conditions of Approval:	Attached
	Please inspect liner in question	. Provide
Date: 8/2/18 Phone: 575.748.1829	NMOCD with a concise report of	
* Attach Additional Sheets If Necessary	with a concise report of	

De

inspection with affirmation the liner has

and will continue to contain liquids.

. Released to Imaging: 2/16/2021 2:26:20 PM



											TBYNUM (EF	IS SHARED SAFE	TY CON
											2	Searches 🗸	Opera
CD Permit	-												
	idents > Incident												
OY18232318		AJOR A S	SWS	@ 30-	025-412	92							
General Incident In	formation												
Site Name: Well:	[30-025-41292] N	IEAN GREEN 23 FE	EDERAL	#001H									
Facility:													
Operator: Status:	[6137] DEVON E Closure Not Appr	NERGY PRODUCT	ION COM	IPANY, LP					Severily:	Marian			
Type:	Produced Water								Surface Owner:	Major			
District:	Hobbs								County:	Lea (25)			
Incident Location: Lat/Long: Directions:	P-23-26S-34E 32.0216446,-103	25 FSL 330 FEL 1.4332657 NAD83	L										
Notes													
Source of Referral:	Industry Rep								Action / Escalation:				
Resulted In Fire:													
Endangered Public He	alth:								Will or Has Reached V				
Contact Details													
Contact Name:									Contact Title:				
Event Dates													
Date of Discovery:		08/20/2018							OCD Notified of Major	Release:	07/29/2018		
Extension Date:		11/15/2018							Cancelled Date:				
Initial C-141 Received													
Characterization Repo									Characterization Rep	ort Approved:			
Remediation Plan Rec	eived:								Remediation Plan Ap	proved:			
Closure Report Receiv	ved:								Remediation Due: Closure Report Appro	oved:			
Incidents Materials													
							_						
				١	olume								
Cause	Source	Material	Unk.	Spilled	Recovered	Lost	Units						
			UIIK.	opineu	Recovered	Loat							
Overflow - Tank, Pit, Et	c. Tank (Any)	Produced Water		62	62	0	BBL						
Incident Events													
Date								Detail				1	
											ver. Truck arrived on site and immediately		
	pulling tank levels (ere found.	down. Approx. 62 bb	ols produc	ed water w	as released into	lined con	tainment.	All 62 bbls produ	iced water was recovered	I from lined containmen	t. Containment was inspected for holes and		
Orders													

Received by OCD: 10/23/2020 9:34:26 AM Form C-141 State of New Mexico

Page 6

Oil Conservation Division

	Page 12 of 1	8
Incident ID	NOY1823231809	
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.

<u>Closure Report Attachment Checklist</u>: Each of the following it	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner 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	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signatural Take Burender	
Signature: <u>Tom Bynum</u> email: tom.bynum@dvn.com T	alarhanan 575 748 2662
	elephone: <u>373-748-2003</u>
OCD Only	
Received by: Chad Hensley	Date: 02/16/2021
remediate contamination that poses a threat to groundwater, surface we party of compliance with any other federal, state, or local laws and/or	•
Closure Approved by:	Date: 02/16/2021
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced



Attachment B

Photographs





View of standing water and snow within the secondary containment.



View of standing water and snow within the secondary containment.





View of standing water in the secondary containment.

View of standing water between the tanks and rust on the bottom of the tank.





Attachment C

Liner Inspection Field Form

Received by OCD: 10/23/2020 9:34:26 AM



Liner Inspection Form

Client	Devon Energy	
Date of Inspection	2/5/20	- AM 2128/20
Site Name	Mean Green 23 Federal IH + Sign says 2	5 Fed 1H
Latitude	32,021746	
Longitude	-103,433279	21

Observations	Yes	No	Comments
Is the liner present?	V		
Is the liner torn?			
Are there visible holes in the liner?		~	
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):

Other Concerns or Observations:

Metal Secondary Containment
Showing
Rust on metal to evidence of liner holding water
Photos 1-13
Inspector Name Annie McCauley
Inspector Signature a M

CONDITIONS

Action 10822

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

Bit S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

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 OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:	
PIMA ENVIRONMENTAL SERVICES, L 1601 N. Turner	329999	10822	C-141	
Suite 500 Hobbs, NM88240				
OCD Reviewer	Condition	Condition		
chensley	None	None		