

October 13, 2020

SMA #5E29133, BG67

NMOCD District 1 1625 N. French Dr. Hobbs, NM 88240

RE: LINER INSPECTION REPORT BILLIKEN CENTRAL TANK BATTERY (NRM2026543414)

To Whom it May Concern:

Souder, Miller & Associates (SMA) is pleased to submit this letter report on behalf of Devon Energy Production Company (Devon) summarizing the liner inspection that occurred due to the Billiken Central Tank Battery site. The site is located in Unit letter M, Section 6, T26S, R35E (N32.0658564 /W-103.41413200) Lea County, New Mexico, on Federal land.

Site Characterization

On September 5, 2020, there was a release of 39 bbls of produced water due to a leak from the gunbarrel within the facility. All fluid was contained within the lined secondary containment structure surrounding the storage tanks. Initial response activities were conducted by the operator and included source elimination and site stabilization, which recovered approximately 39 bbls of produced water.

Based upon New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) well data, depth to groundwater in the area is estimated to be 300 feet (bgs). There are no water sources within ½-mile of the location, according to the NMOSE and USGS water well databases (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed October 13, 2020; Appendix C). The nearest significant watercourse is an unnamed spring located approximately 3,952 feet to the northwest of the Billiken Central Tank Battery.

Due to a lack of supportable groundwater data, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

Liner Integrity

At the request of Devon, SMA conducted a liner integrity inspection per requirements of 19.15.29.11.A(5)(a) NMAC. NMOCD was notified on September 8, 2020 that the liner inspection was to occur, and the inspection was conducted on October 13, 2020. After a thorough visual inspection of the liner within the tank battery containment, the liner appeared to be intact and had the ability to contain the leak in question. The location where the release occurred was identified, and SMA verified that the release did not occur outside of the lined containment. A photo log of the inspection is included in Appendix A.

SMA recommends no further action for this release and requests the closure of NRM2026543414.

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Souder, Miller and Associates appreciates the opportunity to provide environmental services to you. If you have any questions or comments concerning this report, please feel free to call Ashley Maxwell at (505) 325-7535.

Sincerely,

Souder, Miller & Associates

Reviewed by:

Ashley Maxwell Project Scientist Shawna Chubbuck Senior Scientist

Attachments:

Figures

Figure 1: Site Map

Figure 2: Surface Water Protection Map Figure 3: Site and Sample Location Map

Appendices

Appendix A: Photo Log, Field Notes & Liner Inspection Form

Appendix B: C141

Appendix C: Water Well Data

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FIGURES

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Appendix A PHOTO LOG, FIELD NOTES & LINER INSPECTION FORM

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Souder, Miller & Associates	A 63.64
Liner Inspection Form	_/\SMA
Project Name: Billine CTB Inspec	etion Date: 10/13/2020
Client Name: Devon Enry	1,2020
Client Representative(s): Lipe Carrasco SMA Inspector(s): This Smith	
SMA Inspector(s):	
Project Location. Latitude	=: 32.0658564 Longitude: _103.41413200
Inspection Parameters as Outlined in 19.15.29.11.A(5) NN	MAC
PRIOR TO INSPECTION: Two (2) Business Day Notification of Inspection to Appropri Date of Notice: 10/08/220	iate Division Office (Y/N): Y
Material Covering Liner Removed by Client	(Y/N): Y
Affected Areas Exposed by Client	(Y/N): <u>Y</u>
INSPECTION:	2.00
Liner Thoroughly Inspected for Damage	(Y/N): <u>Y</u>
All Damaged Areas Observed Marked in White Paint on Lir Photos and Field Notes Detailing Failures Attached to	
To Be Completed by Client Representative: Can Responsible Party Demonstrate:	
Liner Integrity Was Maintained (per SMA Inspection) (Y/N): ∨
Release Was Contained to Lined Containment Area) (Y/N): <u>√</u> (Y/N): <u>√</u>
Liner Was Able to Contain the Leak	(Y/N): <u>y</u>
If YES:	
Certify on Form C-141 That Liner Remains In	itact
If NO to Any of Above: Responsible Party Must Delineate Horizontal of Depending on Release: See Table 1 19.15.29.12 NMAC See Subparagraph (e) Paragraph (5) o	* *
Additional Comments:	
SMA INSPECTOR SIGNATURE	CLIENT REPRESENTATIVE
this with	
Date: 10/13/2020	Date:

Scale: 1 square =___

Rite in the Rain .





























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APPENDIX B C141 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

Responsible Party

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	NRM2026543414
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Name	e	Contact Tele		elephone		
Contact emai	1	Incident #		(assigned by OCD)		
Contact maili	ng address					
			Location 6	of Release So	ource	
Latitude			(NAD 83 in deci	Longitude _	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	ity	1
Surface Owner	: State	Federal Tri	ibal Private (N	'ame:		
9 41 1 40 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	= = = = =		,		.	
				Volume of I		
Crude Oil	Materia	Volume Released		calculations or specific		ne volumes provided below) overed (bbls)
Produced	Water	Volume Released				overed (bbls)
		Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?			Yes 1	No
Condensat	te	Volume Released		•	Volume Rec	overed (bbls)
Natural G	as	Volume Released (Mcf)		Volume Rec	overed (Mcf)	
Other (des	scribe)	Volume/Weight Released (provide units)		Volume/Wei	ght Recovered (provide units)	
Cause of Rele	ease					

Page	26	21	923
1 uge	40	vj	90

Incident ID	NRM2026543414
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	I otice given to the OCD? By whom? To when	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediated	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 o	likes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
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 blease 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 notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD 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	DeHoyos	
email:		Telephone:
OCD Only		
Received by: Ramona	Marcus	Date: 9/21/2020

Received by OCD: 12/18/2020 11539:26/AM State of New Mexico Oil Conservation Division Page 3

Incident ID NRM2026543414 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?	(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		

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.

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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:Lupe Carrasco	Title:EHS Professional
Signature: Lups Carrasco	Date:10/21/20
email: _Lupe.Carrasco@dvn.com	Telephone:575-748-0165
OCD Only	
Received by:	Date:

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Incident ID	NRM2026543414
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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.

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: Lupe Carrasco Title: EHS Professional Signature: Lupe.Carrasco@dvn.com Telephone:575-748-0165 Telephone:575-748-0165		
OCD Only		
Received by:Cristina Eads 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: Date:		
Printed Name: Cristina Eads Title: Environmental Specialist		

NRM2026543414

Spills In Lined Containment Measurements Of Standing Fluid		
Width(Ft)	15.3	
Depth(in.)	1	
Total Capacity without tank displacements (bbls)	61.31	
No. of 500 bbl Tanks In Standing Fluid No. of Other Tanks In Standing Fluid	8	
OD Of Other Tanks In Standing Fluid(feet)		
Total Volume of standing fluid accounting for tank displacement.	38.92	

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APPENDIX C WATER WELL DATA



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 DistanceDepthWellDepthWater Column

POD Number

basin County 64 16 4 Sec Tws Rng Code

X Y 649517

350

C 02299

4 2 4 24 25S 34E

3554125

Average Depth to Water:

300 feet

Minimum Depth:

300 feet

Maximum Depth:

300 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 649694.946

Northing (Y): 3548835.428

Radius: 5500

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.

10/13/20 3:34 PM

WATER COLUMN/ AVERAGE DEPTH TO

WATER

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

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 10783

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	6137	10783	C-141

OCD Reviewer	Condition
ceads	None