

March 1, 2021

SMA #5E29915, BG4

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

# RE: LINER INSPECTION REPORT SALADO DRAW 6 CTB (NAPP2104140937)

To Whom it May Concern:

Souder, Miller & Associates (SMA) is pleased to submit this letter report on behalf of Devon Energy Production (Devon) summarizing the liner inspection that occurred due to the Salado Draw 6 Federal 1H release. The site is located in Unit Letter M, Section 06, T26S, R34E (N32.065401, W103.514801) Lea County, New Mexico, on Federal land.

#### **Site Characterization**

On January 23, 2021, a release occurred due to a pin hole developing on a water line within the secondary containments. This resulted in a release of 240 bbls of produced water inside the lined secondary containment of the tank battery. Initial response activities were conducted by the operator and included source elimination and site stabilization, which recovered approximately 240 bbls of produced water.

## Depth to Groundwater

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 166 feet below grade surface (bgs).

#### Wellhead Protection Area

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 March 1, 2021; Appendix C).

## Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed playa, located approximately 2,818 feet to the southwest.

Due to a lack of supportable groundwater data, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of <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 February 23, 2020-that the liner inspection was to occur, and the inspection was conducted on February 26, 2020-that the liner appeared to be intact and had the ability to

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contain the release in question. The location from which the release occurred was identified, and SMA verified that the release did not occur outside of the lined containment. A photo log and field notes of the inspection is included in Appendix A.

SMA recommends no further action for this release and requests the closure of NAPP2104140937.

Souder, Miller and Associates appreciates the opportunity to provide environmental services to you. If you have any questions or comments concerning this report, please 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: Vicinity and Well Head Protection Map

Figure 2: Surface Water Protection Map

Figure 3: Site and Photograph Location Map

## **Appendices**

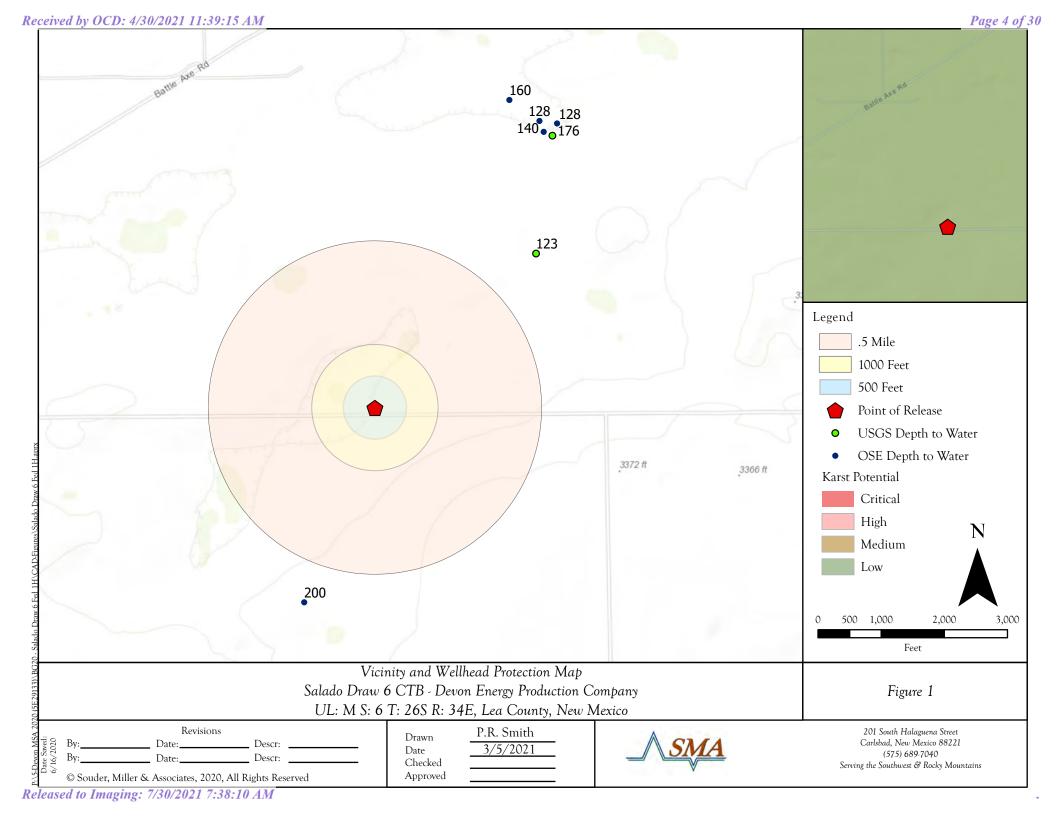
Appendix A: Liner Inspection Form, Field Notes & Photo Log

Appendix B: C141

Appendix C: NMOSE Well Report

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# **FIGURES**



Approved

Released to Imaging: 7/30/2021 7:38:10 AM

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# Appendix A LINER INSPECTION FORM, FIELD NOTES & PHOTO LOG

Souder,	Miller &	Associates
Liner In	spection	Form

Liner Inspection Form	/\ SMA
Project Name: Salarlo Day 6 CTB Inspection Date: 2/26/2	21
Client Name: Devon Grund	
Client Representative(s): Life Conso	
SMA Inspector(s): TR. Sm.+th	
	Longitude: -103 514801
Inspection Parameters as Outlined in 19.15.29.11.A(5) NMAC	
PRIOR TO INSPECTION:	
Two (2) Business Day Notification of Inspection to Appropriate Division Office  Date of Notice: 2/23/21	(Y/N): <u>\</u>
Material Covering Liner Removed by Client	(Y/N): <u>√</u>
Affected Areas Exposed by Client	(Y/N): <u>\</u>
INSPECTION: Liner Thoroughly Inspected for Damage	(Y/N): <u></u>
All Damaged Areas Observed Marked in White Paint on Liner Photos and Field Notes Detailing Failures Attached to This Form	
To Be Completed by Client Representative:	
Can Responsible Party Demonstrate:	WAD.
Liner Integrity Was Maintained (per SMA Inspection) Release Was Contained to Lined Containment Area	(Y/N):
Liner Was Able to Contain the Leak	(Y/N): <u>Y</u>
If YES:	·
Certify on Form C-141 That Liner Remains Intact	
If <b>NO</b> to Any of Above:	
Responsible Party Must Delineate Horizontal & Vertical Extent	
Depending on Release:	
See Table 1 19.15.29.12 NMAC	
See Subparagraph (e) Paragraph (5) of Subsection A 19.15	.29.11 NMAC
Additional Comments:	
SMA INSPECTOR SIGNATURE CI	LIENT REPRESENTATIVE
Date: 2/26/21 Da	te:

SUBJECT LINE Inspection PROJECT Steels Drule PAGE CLIENT Deven Engy DAYE 2/26/21 BY Wallack to POR and examined it release Was Bully Contancel. Revese de Stey in Served Cor tars and other potential Comprom Ses - throughou No FalureS remarked intext verticed that attack of was not compromised. Dratos OF Contenment with GPS date 1 time Costolners and mapped contoment and photograph Location Sites. o Left Site























• 99°E (T) ● 32.065411, -103.514905 ±1 m ▲ 984 m



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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

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	NAPP2104140937
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

					Г	
Responsible Party Devon Energy						37
Contact Name Lupe Carrasco						lephone 575-748-0165
Contact email lupe.carrasco@dvn.com					Incident # (	(assigned by OCD)
Contact mai	ling address	6488 Seven F	Rivers Highwa	ay Arte	esia, NM 8	38210
			Location	1 of R	elease So	ource
Latitude 3	2.065401				Longitude	-103.514801
			(NAD 83 in d		grees to 5 decim	
Site Name	Salado Di	raw 6 CTB			Site Type	Battery
Date Release					API# (if appl	licable) 30-025-41293
<u> </u>						
Unit Letter	Section	Township	Range		Coun	ty
М	6	26S	34E	Lea		
Surface Owne	r: State		ribal Drivata	(Nama:		,
Surface Owne	ı. 🔝 State	V rederar 11	iloai Filvate	(wame.		)
			Nature an	d Vol	lume of F	Release
	Materia	ıl(s) Released (Select a	ll that apply and attac	ch calculat	ions or specific	justification for the volumes provided below)
Crude Oi		Volume Release			•	Volume Recovered (bbls)
☑ Produced	Water	Volume Release	ed (bbls) 240			Volume Recovered (bbls) 240
			tion of dissolved	chloride	e in the	☐ Yes ☐ No
Condensa	ate	Produced water Volume Release				Volume Recovered (bbls)
Natural C						,
		Volume Release				Volume Recovered (Mcf)
Other (describe) Volume/Weight Released (provide units)					)	Volume/Weight Recovered (provide units)
Cause of Rel	1110	release was o	caused by a	oin hol	le on a wa	ter line within the secondary containment.
	All flu	id was contair	ned within the	e seco	ndary con	itainment.

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Incident ID	NAPP2104140937
District RP	
Facility ID	
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Was this a major release as defined by	If YES, for what reason(s) does the responsible >25 barrels	nsible party consider this a major release?
19.15.29.7(A) NMAC?	7 -0 000.0	
☑ Yes ☐ No		
If VFS, was immediate n	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
		r email portal by Wes Mathews on 1/23/21.
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
✓ The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
☑ Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:
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 lease attach all information needed for closure evaluation.
regulations all operators are	required to report and/or file certain release noti	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Lupe	Carrasco	Title: EHS Professional
Signature: Lupe C	arrasco	Date: 2/10/21
email: Lupe.Carı		Telephone: 575-748-0165
OCD Only		
Received by: Ramona	a Marcus	Date: 2/16/2021
received by.		

e of New Mexico

Incident ID	NAPP2104140937
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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?						
Did this release impact groundwater or surface water?						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?						
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?						
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?						
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?						
Are the lateral extents of the release within 300 feet of a wetland?						
Are the lateral extents of the release overlying a subsurface mine?						
Are the lateral extents of the release overlying an unstable area such as karst geology?						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No					
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No					
	Yes No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data</li> <li>□ Data table of soil contaminant concentration data</li> <li>□ Depth to water determination</li> <li>□ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>□ Boring or excavation logs</li> <li>□ Photographs including date and GIS information</li> <li>□ Topographic/Aerial maps</li> <li>□ Laboratory data including chain of custody</li> </ul>	ls.					

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: 4/30/2021 11:39:15 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 20 0f 3
Incident ID	NAPP2104140937
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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: Wes Mathews

Title: EHS Professional

Date: 4/27/2021

email: wesley.mathews@dvn.com

Telephone: 575-513-8608

Date: \_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_

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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 must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C 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 should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Operator Name: Wes Mathews	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.  Title: EHS Professional
Signature: Wesley Mathews	Date: 4/27/2021
email: wesley.mathews@dvn.com	Telephone: <u>575-513-8608</u>
OCD Only	
Received by: Chad Hensley	Date: 07/30/2021
remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date: _07/30/2021
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced

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# APPENDIX C NMOSE WELL REPORT

Engineering • Environmental • Surveying

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## 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								W	ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDep	thWater Co	lumn
<u>C 02295</u>		CUB	LE	2	2	4	12	26S	33E	639865	3547624	1076	250	200	50
C 02292 POD1		CUB	LE	4	1	2	06	26S	34E	640992	3549987	1558	200	140	60
C 03441 POD1		C	LE	4	1	2	06	26S	34E	640971	3550039	1593	250		
<u>C 02291</u>		CUB	LE	1	1	2	06	26S	34E	640825	3550140*	1619	220	160	60
C 03442 POD1		C	LE	4	1	2	06	26S	34E	641056	3550028	1626	251		

Average Depth to Water:

166 feet

Minimum Depth:

140 feet

Maximum Depth:

200 feet

**Record Count:** 5

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 640192.22 **Northing (Y):** 3548649.69 **Radius:** 2000

\*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.

3/1/21 11:44 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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 26469

## **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	26469
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/30/2021