

July 21, 2020

SMA #5E29133, BG25

NMOCD District 1 1625 N. French Drive Hobbs, New Mexico 88240

RE: LINER INSPECTION REPORT CHILES 28 WELLPAD 1 (NRM2017058536)

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 Chiles 28 Wellpad 1 release. The site is located in Unit Letter O Section 28, Township 21S, Range 34E (N32.443174/W-103.472999) Lea County, New Mexico, on private land.

Site Characterization

On June 7, 2020, the line on the transfer pump broke causing a fluid release into the lined containment at the Chiles 28 Wellpad 1 location. This caused a fluid release of 22.5 barrels 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 22 barrels of produced water.

Based upon New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) well data, average depth to groundwater in the area is estimated to be at 138 feet below grade surface (bgs). There are five (5) 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 July 16, 2020; Appendix C). The nearest significant watercourse is an unnamed intermittent stream, located approximately 433 feet to the north.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of >100 feet bgs.

Liner Integrity

At the request of Devon Energy, SMA conducted a liner integrity inspection per the requirements of 19.15.29.11.A(5)(a) NMAC on July 3, 2020. NMOCD was notified on June 30, 2020 that the liner inspection was to occur. 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 transfer pump 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.

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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 Lynn A. Acosta at 505-516-7469.

Sincerely, Souder, Miller & Associates

Lynn A. Acosta

Lynn A. Acosta Staff Geoscientist

hanna Chubbuck

Shawna Chubbuck Senior Scientist

Attachments

Figures Figure 1: Site Map Figure 2: Surface Water Protection Map

Appendices Appendix A: Photo Log & Field Notes Appendix B: C141 Appendix C: Water Well Data

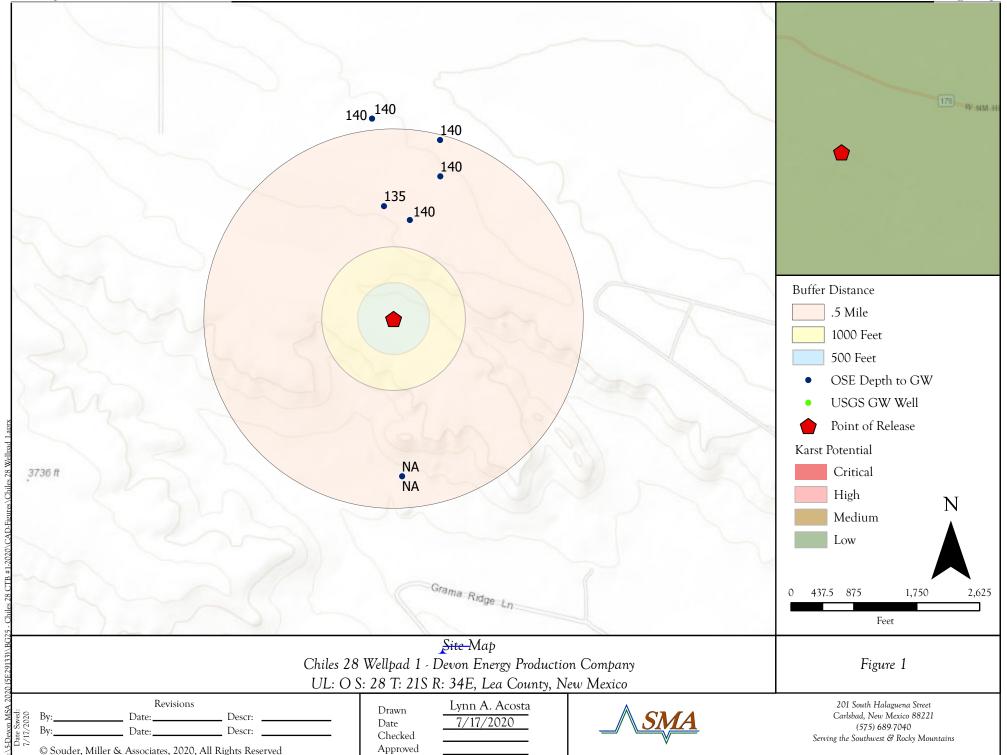
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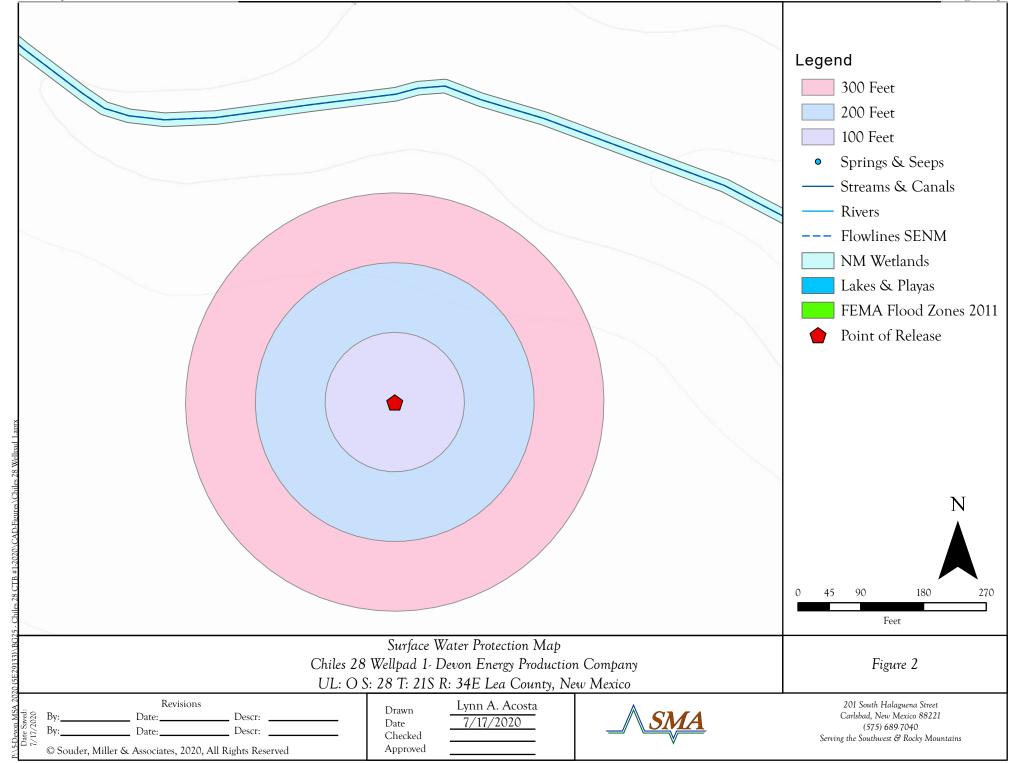
Devon Energy Production Company Chiles 28 CTB #1 (NRM2017058536)

FIGURES

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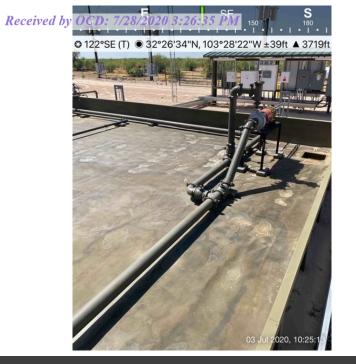


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> Appendix A PHOTO LOG & FIELD NOTES

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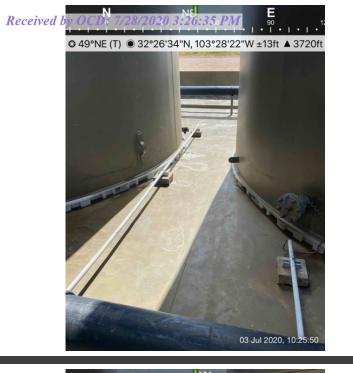


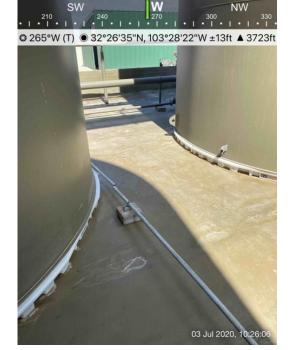




















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Souder, Miller & Associates

Liner Inspection	Form		SMA
Project Name:	Chiles 28 Welpart 1	Inspection Date: 7/3/20	
Client Name:	Deven Every		
Client Representative	e(s):		
SMA Inspector(s):	Schristian Occarc		
Project Location:	and the second se	Latitude: 32.443174	_Longitude: <u>-103.47259</u> 99

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: <u>6/30/202</u> 0	(Y/N): <u>¥</u>
Material Covering Liner Removed by Client	(Y/N): <u>Y</u>
Affected Areas Exposed by Client	(Y/N): <u> </u>
INSPECTION: Liner Thoroughly Inspected for Damage	(Y/N): Y

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: Liner Integrity Was Maintained (per SMA Inspection) (Y/N): Release Was Contained to Lined Containment Area (Y/N): Liner Was Able to Contain the Leak If YES: Certify on Form C-141 That Liner Remains Intact If **NO** 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

asteun Ongeo

CLIENT REPRESENTATIVE

Date:

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APPENDIX B C141

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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

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Incident ID	NRM2017058536
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Longitude

Latitude			

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	-	

Oil Conservation Division

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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:	Title:
Signature: <u>Kendra DeHoyos</u>	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>6/18/2020</u>

Received by OCD: 7/28/2020 3:26:35 PM State of New Mexico

Oil Conservation Division

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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?	<u>138</u> (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 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
- \mathbb{R}
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- X Topographic/Aerial maps
- X 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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nired to report and/or file certain release not. The acceptance of a C-141 report by the and remediate contamination that pose a th C-141 report does not relieve the operator of sco	otifications e OCD does meat to grou of responsit Title: Date:	and perform cc not relieve the indwater, surfa pility for compl EHS Profes 7/28/20	prrective actions for rel e operator of liability sl ace water, human health liance with any other for ssional	eases which may endanger hould their operations have h or the environment. In ederal, state, or local laws
	_	Date:		
	tion given above is true and complete to the tried to report and/or file certain release net. The acceptance of a C-141 report by the and remediate contamination that pose a the context of the context	aired to report and/or file certain release notifications a. The acceptance of a C-141 report by the OCD does and remediate contamination that pose a threat to grou c-141 report does not relieve the operator of responsite sco	tion given above is true and complete to the best of my knowledge a aired to report and/or file certain release notifications and perform co The acceptance of a C-141 report by the OCD does not relieve the and remediate contamination that pose a threat to groundwater, surfa C-141 report does not relieve the operator of responsibility for complex sco Title:EHS Profe AMAACO Date:7/28/20 n.com Telephone:57:	Oil Conservation Division District RP Facility ID Application ID tion given above is true and complete to the best of my knowledge and understand that pur bired to report and/or file certain release notifications and perform corrective actions for rel to the acceptance of a C-141 report by the OCD does not relieve the operator of liability sl and remediate contamination that pose a threat to groundwater, surface water, human health C-141 report does not relieve the operator of responsibility for compliance with any other for sco Title:EHS Professional m.com Date:7/28/20

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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 a	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 certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	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
OCD Only	
Received by:	Date:
	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:
Printed Name:	Title:

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NRM2017058536

Spills In Line	d Containment						
Measurements Of Standing Fluid							
Length(Ft)	118						
Width(Ft)	61						
Depth(in.)	0.25						
Total Capacity without tank displacements (bbls)	26.71						
No. of 500 bbl Tanks In Standing Fluid	6						
No. of Other Tanks In Standing Fluid	0						
OD Of Other Tanks In Standing Fluid(feet)	0						
Total Volume of standing fluid accounting for tank displacement.	22.51						

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APPENDIX C WATER WELL DATA

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(A CLW##### in the POD suffix indicates the POD has been replaced & no longer	(R=POE been rep O=orpha	placed,		1	au	arte	are a	ro 1–N	1\\\/ 2_N		1-SF)				
serves a water right file.)	a water right C=the file is closed)				(quarters are sma (quarters are sma largest)				IW 2=NE 3=SW 4=SE) Illest to (NAD83 UTM in meters)				(In feet)		
		POD Sub-		Q	Q	Q								w	later
POD Number	Code	basin	County	64	16	4	Sec	: Tws	Rng	Х	Y	DistanceDe	othWellDep		
CP 01068 POD1		CP	LE	4	1	4	28	21S	34E	643609	3591005 🌍	424	180	140	2
CP 00571 POD1		СР	LE	3	1	4	28	21S	34E	643499	3591063 🌍	479	170	135	3
CP 01069 POD1		CP	LE	2	1	4	28	21S	34E	643737	3591191 🌍	635	210	140	-
CP 00588 POD1		CP	LE		3	2	33	21S	34E	643583	3589918* 🌍	669	89		
CP 00589 POD1		CP	LE		3	2	33	21S	34E	643583	3589918* 🌍	669	84		
CP 01066 POD1		СР	LE	4	3	2	28	21S	34E	643735	3591345 🌍	782	210	140	7
											Aver	age Depth to W	138 feet		
	Minimum Depth:				pth:	135 feet									
											Maximum De	pth:	140 fee	ət	
Record Count:6															
UTMNAD83 Radiu	is Search	(in mete	ers):												
Easting (X): 64	3543		North	ning	g ()	():	359	0586			Radius: 806				

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WATER