



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-7040

October 31, 2020

SMA #5E29133, BG68

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

**RE: LINER INSPECTION REPORT
BELL LAKE 19 CTB 3 (NRM2028130276)**

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 Bell Lake 19 CTB 3 release. The site is located in Unit Letter J, Section 19, T24S, R33E (N32.199655 /W-103.608708) Lea County, New Mexico, on State land.

Site Characterization

On September 27, 2020, a cooling line on the water pump developed a leak. This resulted in a release of 60.70 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 60.70 bbls of produced water.

Depth to Groundwater

Based upon New Mexico Office of the State Engineer (NMOSE) well data, average depth to groundwater in the area is estimated to be 415 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 October 26, 2020; Appendix C).

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed spring, located approximately 1.7 miles to the south.

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 October 26, 2020 that the liner inspection was to occur, and the inspection was conducted on October 28, 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 release in question. The location from which the release occurred was identified, and SMA verified

Devon Energy
Bell Lake 19 CTB 3 (NRM2028130276)

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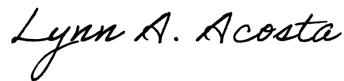
that the release did not occur outside of the lined containment. A photo log and field notes of the inspection is included in Appendix A.

SMA recommends no further action for this release and requests the closure of NRM2028130276.

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 contact Lynn Acosta at (505) 516-7469.

Sincerely,
Souder, Miller & Associates

Reviewed by:



Lynn A. Acosta
Staff Geoscientist



Shawna Chubbuck
Senior Scientist

Attachments:

Figures

Figure 1: Site Map

Figure 2: Surface Water Protection Map

Figure 3: Site and Photograph Location Map

Appendices

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

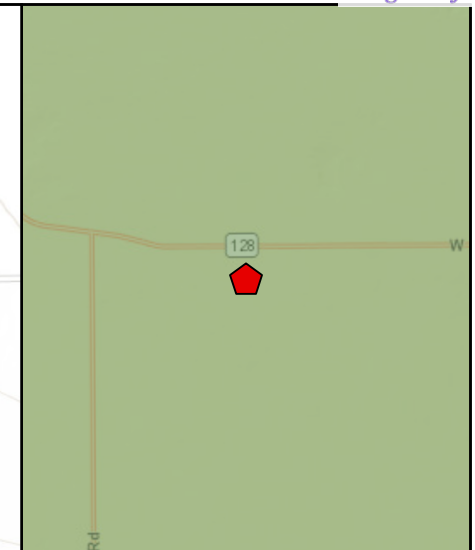
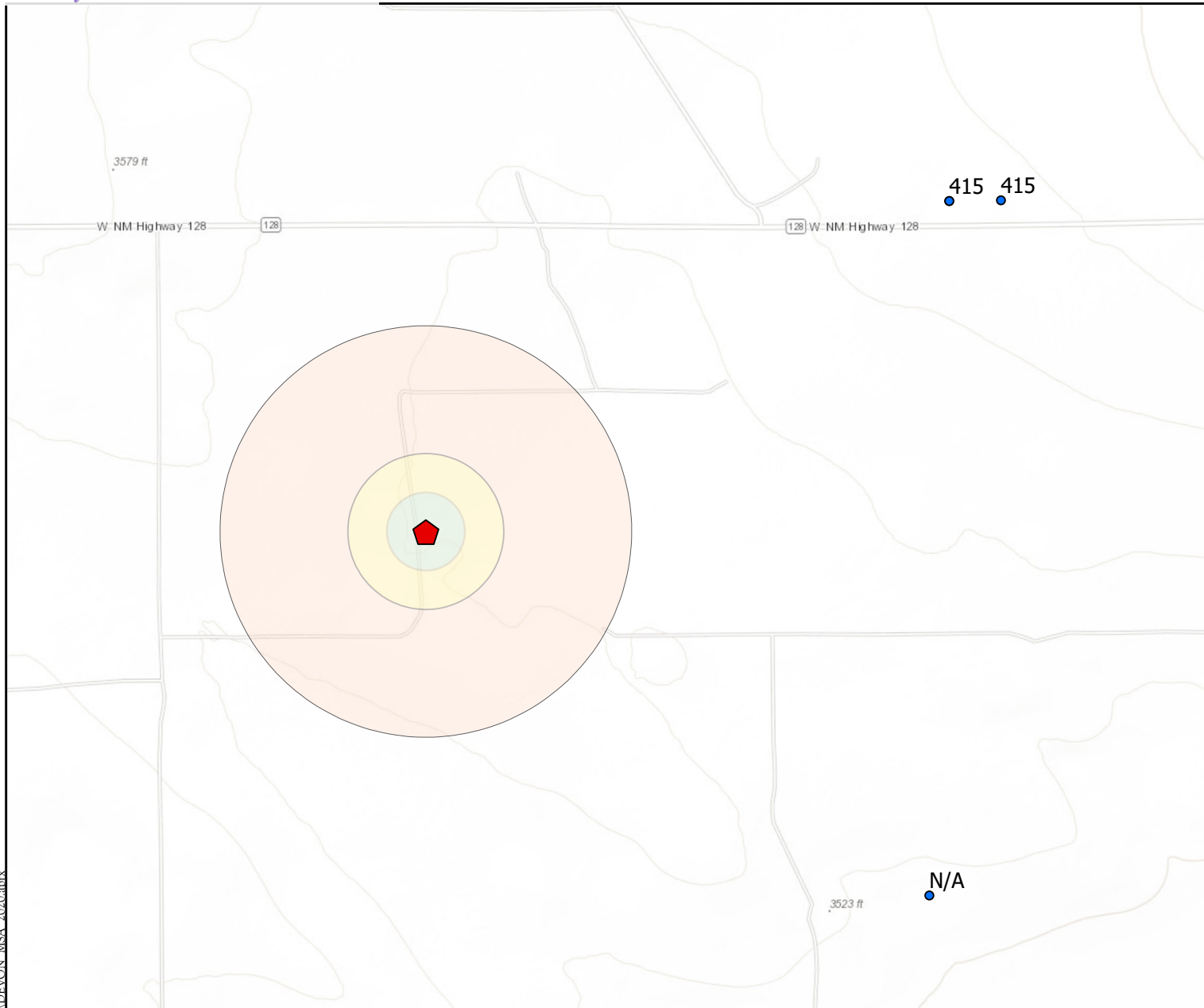
Appendix B: C141

Appendix C: Water Well Data

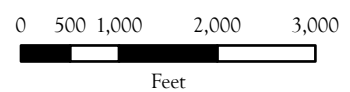
Devon Energy
Bell Lake 19 CTB 3 (NRM2028130276)

5E28395 BG68

FIGURES



- Buffer Distance**
- .5 Mile
 - 1000 Feet
 - 500 Feet
 - Point of Release
 - USGS Wells
 - OSE Wells
- Karst Potential**
- Critical
 - High
 - Medium
 - Low



Site Map
 Bell Lake 19 CTB 3 - Devon Energy
 UL: J S: 19 T: 24S R: 33E, Lea County, New Mexico

Figure 1

Revisions

By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

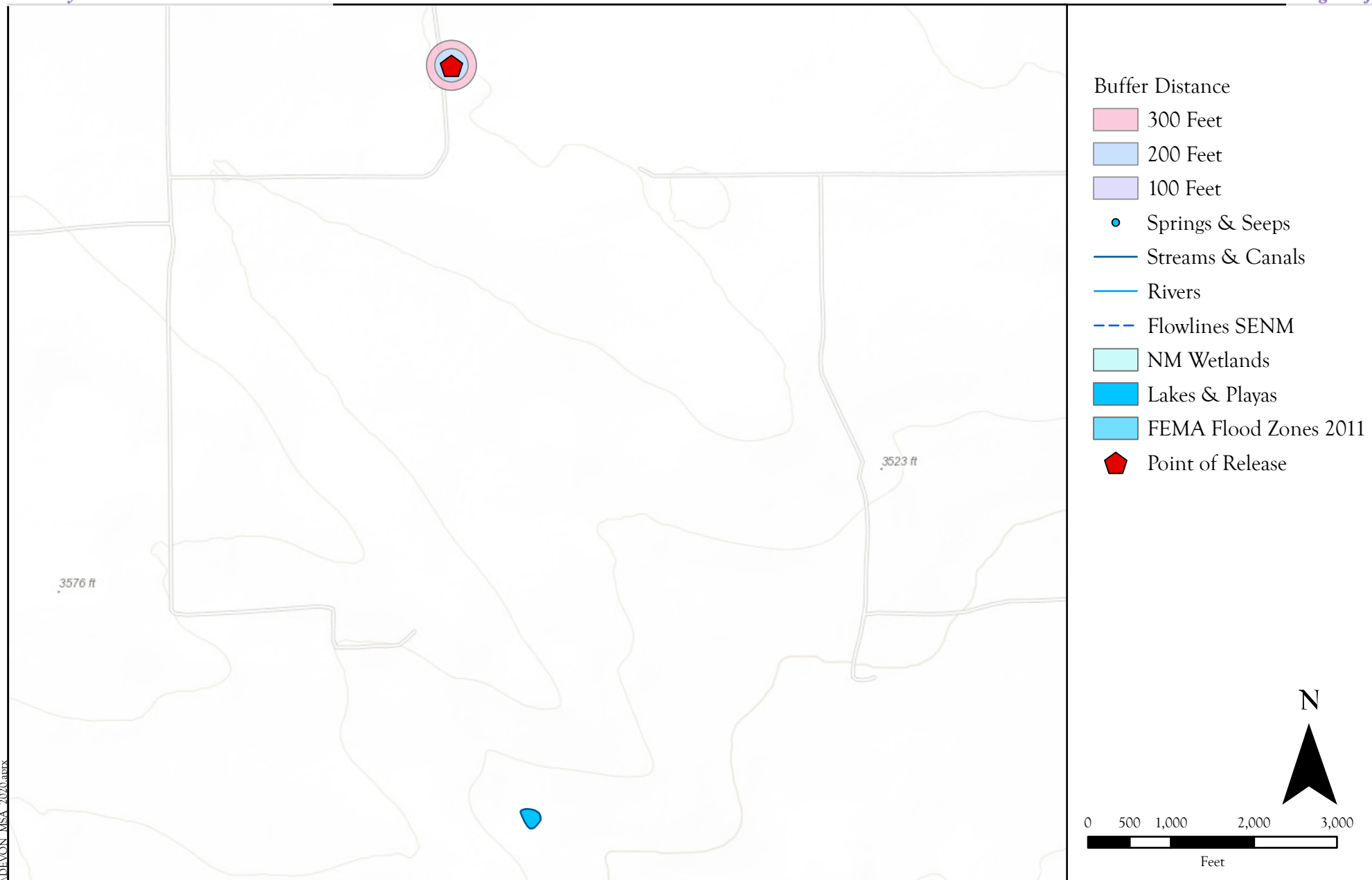
Drawn	P.R Smith
Date	10/26/2020
Checked	_____
Approved	_____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
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P:\5 Devon MSA 2020\5E291131\GIS\DEVON MSA 2020.aprx
 Date Saved: 10/26/2020



Surface Water Protection Map
 Bell Lake 19 CTB 3 - Devon Energy
 UL: J S: 19 T: 24S R: 33E, Lea County, New Mexico

Figure 2

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

Drawn
 Date
 Checked
 Approved

P.R. Smith

10/26/2020



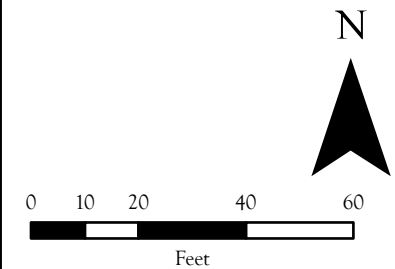
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Legend

- ◆ Point of Release
- Photograph Location



Site and Photograph Location Map
 Bell Lake 19 CTB 3 - Devon Energy Production Company
 UL: J S: 19 T: 24S R: 33E - Lea County, New Mexico

Figure 3

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

Drawn Lynn A. Acosta
 Date 10/31/2020
 Checked _____
 Approved _____



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Appendix A

LINER INSPECTION FORM, FIELD NOTES & PHOTO LOG

Souder, Miller & Associates
Liner Inspection Form

Project Name: Bell Lake 19 CTB3 Inspection Date: 10/28/20
Client Name: Devon Energy
Client Representative(s): Lupe Carrasco
SMA Inspector(s): Phil Smith
Project Location: Rural Lea Latitude: 32.199655 Longitude: -103.608708

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 (Y/N): Y
Date of Notice: 10/26/20

Material Covering Liner Removed by Client (Y/N): Y

Affected Areas Exposed by Client (Y/N): Y

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): Y
Release Was Contained to Lined Containment Area (Y/N): Y
Liner Was Able to Contain the Leak (Y/N): Y

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**

Phil Smith
Date: 10/28/20

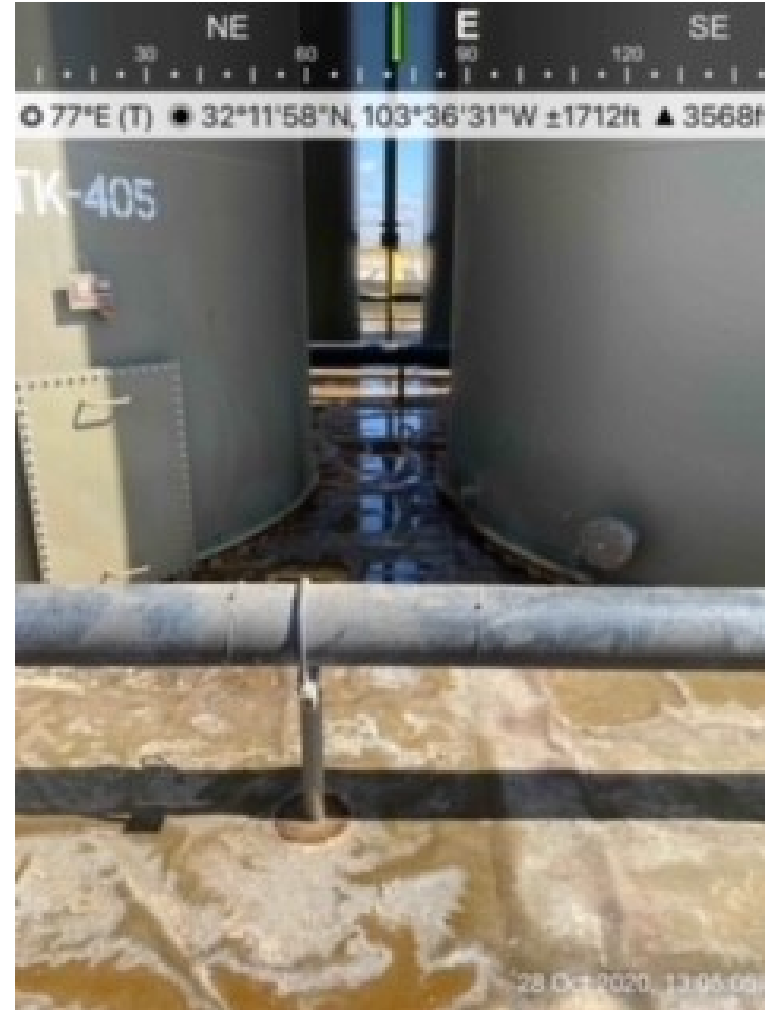
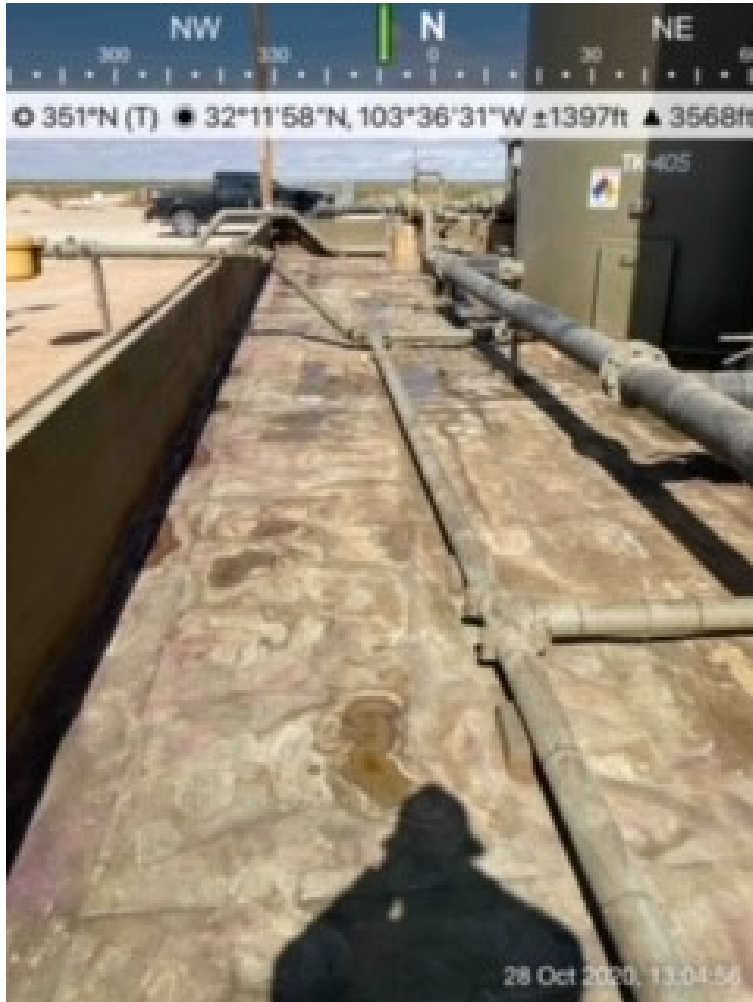
CLIENT REPRESENTATIVE

Date: _____

Bell Lake 19 CTB 3 (NRM2028130276) Photo Log



Bell Lake 19 CTB 3 (NRM2028130276) Photo Log



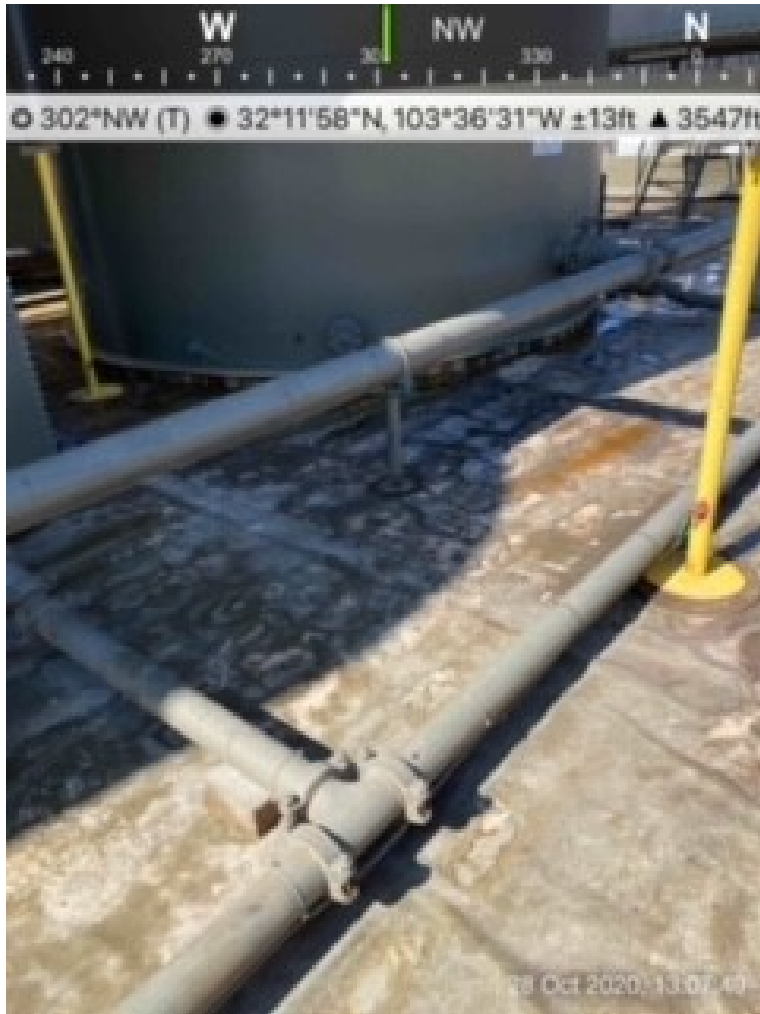
Bell Lake 19 CTB 3 (NRM2028130276) Photo Log



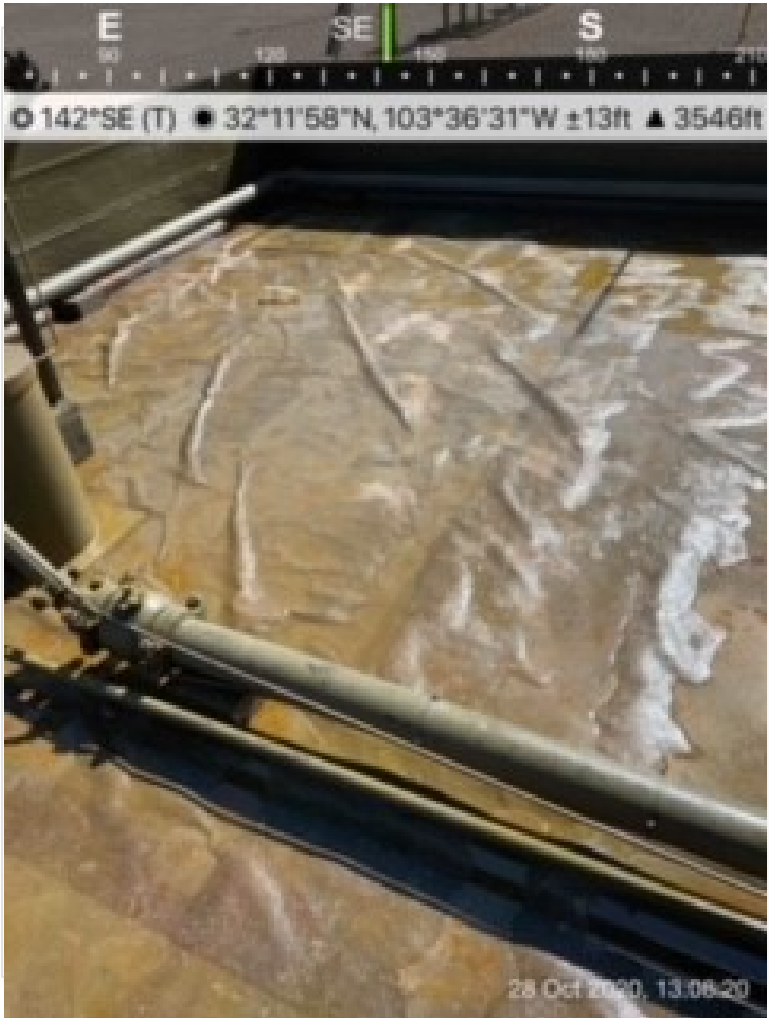
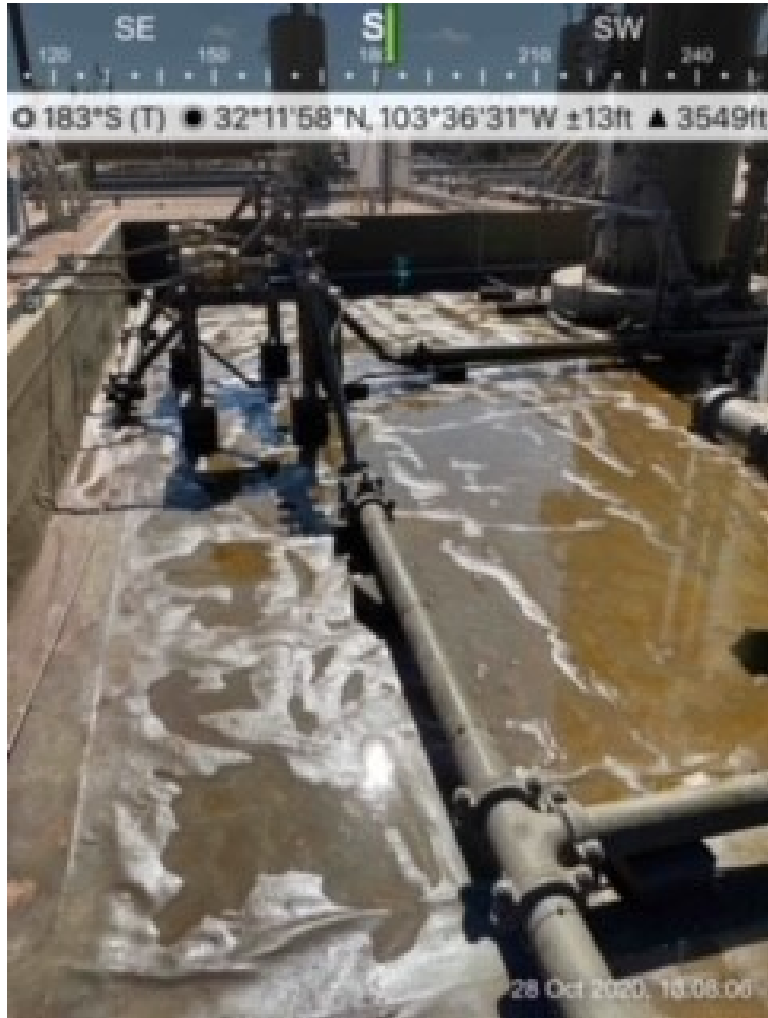
Bell Lake 19 CTB 3 (NRM2028130276) Photo Log



Bell Lake 19 CTB 3 (NRM2028130276) Photo Log



Bell Lake 19 CTB 3 (NRM2028130276) Photo Log



Devon Energy
Bell Lake 19 CTB 3 (NRM2028130276)

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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	NRM2028130276
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

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

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

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)

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

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	NRM2028130276
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: _____
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>10/07/2020</u>	

Incident ID	NRM2028130276
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?	415 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- ☐ 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2028130276
District RP	
Facility ID	
Application ID	

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: Lupe Carrasco Title: EHS Professional

Signature: Lupe Carrasco Date: 11/12/20

email: Lupe.Carrasco@dvn.com Telephone: 575-748-0165

OCD Only

Received by:  Date: 01/29/2021

Incident ID	NRM2028130276
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.

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* Date: 11/12/20

email: Lupe.Carrasco@dvn.com Telephone: 575-748-0165

OCD Only

Received by: Cristina Eads Date: 01/29/2021

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: *Cristina Eads* Date: 01/29/2021

Printed Name: Cristina Eads Title: Environmental Specialist

NRM2028130276

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	106
Width(Ft)	53
Depth(in.)	1
Total Capacity without tank displacements (bbls)	83.38
No. of 500 bbl Tanks In Standing Fluid	8
No. of Other Tanks In Standing Fluid	1
OD Of Other Tanks In Standing Fluid(feet)	5
Total Volume of standing fluid accounting for tank displacement.	60.70

Devon Energy
Bell Lake 19 CTB 3 (NRM2028130276)

5E28395 BG68

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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02890	C	LE		2	4	29	24S	33E		633114	3562012*	2425	500		
C 02431	CUB	LE		4	4	4	17	24S	33E	633175	3564728*	2426	525	415	110
C 02432	CUB	LE		4	4	4	17	24S	33E	633175	3564728*	2426	640	415	225

Average Depth to Water: **415 feet**

Minimum Depth: **415 feet**

Maximum Depth: **415 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 631135

Northing (Y): 3563414.806

Radius: 2500

*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.

10/26/20 12:44 PM

Page 1 of 1

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
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

Action 11173

CONDITIONS OF APPROVAL

Operator: DEVON ENERGY PRODUCTION COMPAN 333 West Sheridan Ave. Oklahoma City, OK73102			OGRID: 6137	Action Number: 11173	Action Type: C-141
OCD Reviewer			Condition		
ceads			None		