



July 26, 2019

Vertex Project #: 19E-00575-007

**Spill Closure Report:** Mean Green 27 Federal #1H (Section 22, Township 26 South, Range 34 East)  
API: 30-025-41433  
County: Lea  
Incident Report: RP# Unassigned

**Prepared For:** **Devon Energy**  
6488 Seven Rivers Highway  
Artesia, New Mexico 88210

**New Mexico Oil Conservation Division – District #1 Hobbs**  
1625 North French Drive  
Hobbs, New Mexico 88240

Devon Energy retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release of approximately 140 barrels (bbl) of produced water caused by water storage tanks to overflow into the lined containment on the well pad at Mean Green 27 Federal #1H, API 30-025-41433, Incident RP#-Unassigned (hereafter referred to as “site”). The letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.0218811, W -103.4508286.

## Background Information

The site is located approximately 16 miles west of Jal, New Mexico. The legal location for the site is Section 22, Township 26 South and Range 34 East in Lea County, New Mexico. The spill area is located on Bureau of Land Management (BLM) property. An aerial photograph and site schematic are included in Attachment 1.

*The Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2014 – 2017) indicates the site’s surface geology is comprised primarily of Qep ---- Eolian and piedmont deposits (Holocene to middle Pleistocene). Predominant soil texture on the site is fine sand.

## Incident Description

A spill occurred on June 23, 2017, due to water storage tanks overflowed into the lined containment. A water hauling company was notified to come to the facility and haul water but did not respond as requested causing the tanks to fill up and overflow into lined secondary containment. The spill was reported June 23, 2017 and involved the release of approximately 140 bbl of produced water into lined containment. All fluid remained inside the lined containment and was removed during initial spill clean-up. The New Mexico Oil Conservation Division (NMOCD) C-141 Report: RP#-Unassigned is included in Attachment 2. The Daily Field Reports (DFRs) and site photographs are included in Attachment 3.

[vertex.ca](http://vertex.ca)

201 S Mesa Street, Carlsbad, New Mexico 88220, USA | P 575.725.5001

Devon Energy  
Mean Green 27 Federal #1H, RP# - Unassigned

2019 Spill Assessment and Closure  
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## Closure Criteria Determination

The depth to groundwater was determined using information from Oil and Gas Drilling records and the New Mexico Office of the State Engineer Water Column/Average Depth to Water report. An 8,000-meter search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be 200 feet below ground surface (bgs) and 24,560 feet from the site. Documentation used in Closure Criteria Determination research is included in Attachment 4.

<b>Table 1. Closure Criteria Determination</b>			
<b>Site Name: Mean Green 27 Fed #1</b>			
<b>Spill Coordinates:</b>		<b>X: 32.0218811</b>	<b>Y: -103.4508286</b>
<b>Site Specific Conditions</b>		<b>Value</b>	<b>Unit</b>
1	Depth to Groundwater	200	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	No records within 300	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	144446	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	59300	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, <b>or</b>	24560	feet
	ii) Within 1000 feet of any fresh water well or spring	24560	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	5788	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	500	year
<b>NMAC 19.15.29.12 E (Table 1) Closure Criteria</b>		>100'	<50' 51-100' >100'

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The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

### Remedial Actions Taken

An initial site inspection of the spill area was completed by Vertex on April 13, 2019, which identified the area of the spill specified in the initial C-141 Report and estimated the approximate volume of the spill. The impacted area was determined to be approximately 150 feet long and 60 feet wide; the total affected area was determined to be 9,000 square feet. The DFR associated with the site inspection is included in Attachment 3.

Notification that a liner inspection was scheduled to be completed was provided to the NMOCD on July 3, 2019. Visual observation of the liner was completed on all sides and the base of the containment, around equipment, and of all seams in the liner. As evidenced in the DFR (Attachment 3), liner integrity was confirmed. The Liner Inspection Notification email is presented included in Attachment 5.

### Closure Request

The lined spill area was thoroughly inspected for any rips, tears, holes, etc., and it has been confirmed that the liner was not compromised, and no fluids left the lined containment area. Based on these findings, Devon Energy requests that this spill be closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.645.3111 or [dwilliams@vertex.ca](mailto:dwilliams@vertex.ca).

Sincerely,



Dennis Williams  
ENVIRONMENTAL EARTHWORKS ADVISOR

[vertex.ca](http://vertex.ca)

201 S Mesa Street, Carlsbad, New Mexico 88220, USA | P 575.725.5001

**Devon Energy**  
Mean Green 27 Federal #1H, RP# - Unassigned

**2019 Spill Assessment and Closure**  
July 2019

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## Attachments

- Attachment 1. Site Schematic
- Attachment 2. NMOCD C-141 Report
- Attachment 3. Daily Field Report(s) with Pictures
- Attachment 4. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 5. Liner Inspection Notification to the NMOCD

## References

- Water Column/Average Depth to Water Report*. New Mexico Water Rights Reporting System, (2019). Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>
- Assessed and Impaired Waters of New Mexico*. New Mexico Department of Surface Water Quality Bureau, (2019). Retrieved from <https://gis.web.env.nm.gov/oem/?map=swqb>
- New Mexico Bureau of Geology and Mineral Resources. (2014 – 2017). *The Geologic Map of New Mexico*. Retrieved from <http://geoinfo.nmt.edu>
- Measured Distance from the Subject Site to Residence*. Google Earth Pro, (2019). Retrieved from <https://earth.google.com>
- Point of Diversion Location Report*. New Mexico Water Rights Reporting System, (2019). Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html>
- Measured Distance from the Subject Site to Municipal Boundaries*. Google Earth Pro, (2019). Retrieved from <https://earth.google.com>
- National Wetland Inventory Surface Waters and Wetland*. United State Fish and Wildlife Service, (2019). Retrieved from <https://www.fws.gov/wetlands/data/mapper.html>
- Coal Mine Resources in New Mexico*. NM Mining and Minerals Division, (2019). Retrieved from <http://www.emnrd.state.nm.us/MMD/gismapminedata.html>
- New Mexico Cave/Karsts*. United States Department of the Interior, Bureau of Land Management, (2019) Retrieved from <https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico>
- Flood Map Number 35015C1875D*. United States Department of Homeland Security, FEMA Flood Map Service Center, (2010). Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>
- Well Log/Meter Information Report*. NM Office of the State Engineer, New Mexico Water Rights Reporting System. (2019). Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html>
- Natural Resources and Wildlife Oil and Gas Releases*. New Mexico Oil Conservation Division, (2019). Santa Fe, New Mexico.
- Soil Survey, New Mexico*. United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). Retrieved from

**Devon Energy**

Mean Green 27 Federal #1H, RP# - Unassigned

**2019 Spill Assessment and Closure**

July 2019

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[http://www.wipp.energy.gov/library/Information\\_Repository\\_A/Supplemental\\_Information/Chugg%20et%20al%201971%20w-map.pdf](http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf)

**Devon Energy**  
Mean Green 27 Federal #1H, RP# - Unassigned

**2019 Spill Assessment and Closure**  
July 2019

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## Limitations

This report has been prepared for the sole benefit of Devon Energy. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

## **ATTACHMENT 1**





## LEGEND

- |  |          |  |            |
|--|----------|--|------------|
|  | WELLHEAD |  | SPILL AREA |
|  | TANK     |  | WELL PAD   |
|  | ROAD     |  |            |

Notes: Aerial Image from ESRI Digital Globe 2016

0 25 50 100ft

SCALE 1:1,100

Site Schematic  
Mean Green  
Federal #001

DRAWN: NM	FIGURE: <b>1</b>
APPROVED: KM	
DATE: JUL 11/19	

VERSATILITY. EXPERTISE.

## **ATTACHMENT 2**

4441 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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☒ Final Report

<b>Name of Company</b> Devon Energy Production Company	<b>Contact</b> Randy Gladden, Production Foreman
<b>Address</b> 6488 Seven Rivers Hwy Artesia, NM 88210	<b>Telephone No.</b> 575-513-9463
<b>Facility Name</b> Mean Green 27 Fed 1	<b>Facility Type</b> Oil
<b>Surface Owner</b> Federal	<b>Mineral Owner</b> Federal
<b>API No</b> 30-025-41433	

### LOCATION OF RELEASE

Unit Letter P	Section 22	Township 26S	Range 34E	Feet from the 100	North/South Line South	Feet from the 480	East/West Line East	County Lea
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Latitude: 32.0218811"

Longitude: 103.4508286"

### NATURE OF RELEASE


<b>Type of Release</b> Produced Water (PW)	<b>Volume of Release</b> 140BBLS	<b>Volume Recovered</b> 140BBLS
<b>Source of Release</b> Water storage tank	<b>Date and Hour of Occurrence</b> 6/23/2017 @ 6:00pm	<b>Date and Hour of Discovery</b> 6/23/2017 @ 6:00pm
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> BLM-Shelly Tucker OCD-Olivia Yu	
<b>By Whom?</b> Chris West, Assistant Production Foreman	<b>Date and Hour</b> BLM-6/23/2017 @ 6:00 PM OCD-6/23/2017 @ 6:05 PM	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse</b>	

**RECEIVED**

By Olivia Yu at 2:15 pm, Jul 03, 2017

<b>If a Watercourse was Impacted, Describe Fully.*</b> N/A
<b>Describe Cause of Problem and Remedial Action Taken.*</b> Water storage tanks overflowed into the lined containment. A water hauling company was notified to come to the facility and haul water but did not respond as requested causing the tanks to fill up and overflow into lined secondary containment.
<b>Describe Area Affected and Cleanup Action Taken.*</b> Approximately 140BBLS of produced water was released as a result of the water storage tanks overflowing. Approximately 140BBLS was recovered via the dispatched vacuum truck. All fluid stayed inside the lined SPCC containment. Once fluids were removed the liner was visually inspected by Devon field staff for any pinholes or punctures and none were found. Based on this inspection there is no evidence that the spill fluids left containment.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

<b>Signature:</b> Dana DeLaRosa	<b>OIL CONSERVATION DIVISION</b>	
<b>Printed Name:</b> Dana DeLaRosa	<b>Approved by Environmental Specialist:</b> 	
<b>Title:</b> Field Admin Support	<b>Approval Date:</b> 7/3/2017	<b>Expiration Date:</b>
<b>E-mail Address:</b> dana.delarosa@dvn.com	<b>Conditions of Approval:</b>	<b>Attached</b> <input type="checkbox"/>
<b>Date:</b> 6/29/2017 <b>Phone:</b> 575.746.5594	Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.	

\* Attach Additional Sheets If Necessary

nOY1718451495



Mean Green 27 Feb 1  
140BBLS PW \_6.23.2017



This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
Prepared by: Dana DeLaRosa  
Map is current as of: 29-Jun-2017



Miles  
0 0.00 0.01 0.02 1:889

S22<T26S,R34E

140BBLS PW



## **ATTACHMENT 3**



## Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	7/5/2019
Site Location Name:	Mean Green 27 Fed #1	Report Run Date:	7/26/2019 8:22 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	30.025-41433
Client Contact Name:	Amanda Davis	Reference	Multiple Spills
Client Contact Phone #:	(575) 748-0176		

### Summary of Times

Left Office	7/5/2019 11:00 AM
Arrived at Site	7/5/2019 12:47 PM
Departed Site	7/5/2019 1:45 PM
Returned to Office	7/5/2019 3:30 PM

### Summary of Daily Operations

**12:48** Mobilize to site  
Fill out arrival and safety forms  
Perform liner inspection  
Take pictures  
Fill out DFR  
Return to office

### Next Steps & Recommendations

1

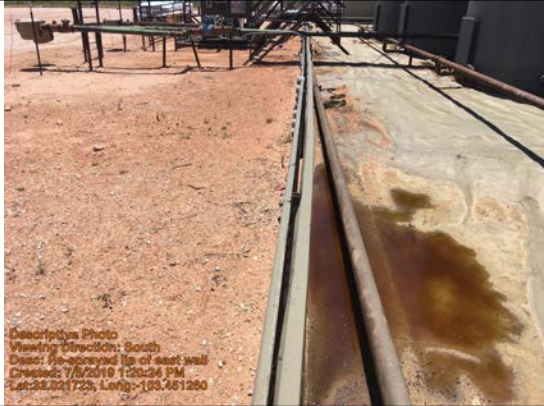


# Daily Site Visit Report



## Site Photos

Viewing Direction: South



Lip of east wall

Viewing Direction: West



Lip of north wall

Viewing Direction: South



Lip of west wall

Viewing Direction: East



Lip of north wall



## Daily Site Visit Report

Viewing Direction: North



Liner Inspection west wall

Viewing Direction: East



South end of lined containment

Viewing Direction: North



South end of lined containment

Viewing Direction: East



Southeast corner of liner





## Daily Site Visit Report

Viewing Direction: North



Liner northeast corner

Viewing Direction: North



West wall

Viewing Direction: Southwest



Southwest corner

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Jason Crabtree

**Signature:**

  
Signature

## **ATTACHMENT 4**



# 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
<a href="#">C 02295</a>	CUB	LE		2	2	4	12	26S	33E	639850	3547710*	7486	250	200	50

Average Depth to Water: **200 feet**

Minimum Depth: **200 feet**

Maximum Depth: **200 feet**

Record Count: 1

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 646300.58

**Northing (Y):** 3543909.94

**Radius:** 8000

\*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.

4/23/19 12:49 PM

Page 1 of 1











WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 1	q 2	q 3	Sec	Tws	Rng	X	Y	Distance
<a href="#">C 02295</a>	CUB	PLS		3 INTREPID POTASH NEW MEXICO LLC	LE	<a href="#">C 02295</a>					2	2	4	12	26S	33E	639850	3547710*	 7486
<a href="#">C 03442</a>	C	STK		3 INTREPID POTASH NEW MEXICO LLC	LE	<a href="#">C 03442 POD1</a>				Shallow	4	1	2	06	26S	34E	641055	3550028	 8058
<a href="#">C 03477</a>	C	PRO		0 EOG RESOURCES, INC.	LE	<a href="#">C 03442 POD1</a>				Shallow	4	1	2	06	26S	34E	641055	3550028	 8058
<a href="#">C 03492</a>	C	PRO		0 EOG RESOURCES, INC	LE	<a href="#">C 03442 POD1</a>				Shallow	4	1	2	06	26S	34E	641055	3550028	 8058
<a href="#">C 02292</a>	CUB	PLS		3 DINWIDDIE CATTLE CO.	LE	<a href="#">C 02292 POD1</a>					4	1	2	06	26S	34E	640991	3549987	 8069
<a href="#">C 03493</a>	C	PRO		0 EOG RESOURCES, INC.	LE	<a href="#">C 02292 POD1</a>					4	1	2	06	26S	34E	640991	3549987	 8069
<a href="#">C 03441</a>	C	STK		3 INTREPID POTASH NEW MEXICO LLC	LE	<a href="#">C 03441 POD1</a>				Shallow	4	1	2	06	26S	34E	640970	3550039	 8122
<a href="#">C 03491</a>	C	PRO		0 EOG RESOURCES, INC	LE	<a href="#">C 03441 POD1</a>				Shallow	4	1	2	06	26S	34E	640970	3550039	 8122
<a href="#">C 02291</a>	CUB	PLS		3 INTREPID POTASH NEW MEXICO LLC	LE	<a href="#">C 02291</a>					1	1	2	06	26S	34E	640825	3550140*	 8294
<a href="#">C 04265</a>	CUB	GEO		0 EOG RESOURCES	LE	<a href="#">C 04265 POD1</a>	NA				2	3	1	32	25S	34E	641842	3551281	 8614

Record Count: 10

**UTMNAD83 Radius Search (in meters):****Easting (X):** 646300.58**Northing (Y):** 3543909.94**Radius:** 9000**Sorted by:** Distance

\*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.

7/9/19 4:42 PM

Page 1 of 1

ACTIVE &amp; INACTIVE POINTS OF DIVERSION

Released to Imaging: 7/6/2022 9:30:15 AM

Received by OCD: 5/6/2020 10:36:53 AM

Legend

Basemap

Query

1:36,112

Legend

All Layers On/Off

All Layer Transparency

☐

Roads

Counties

Air Emissions

Air Facilities

APS Food Facilities

Dairies

Brownfields

Ground Water Discharge Permits

State Cleanup Program

Voluntary Remediation Program

Superfund Sites

Drinking Water Sources

Hazardous Waste Facilities

Landfills

Petroleum Storage Tanks

Leaking Tank Sites

NPDES Permits

Water Quality Stations

Nonpoint Source Program

Impaired Waters


Assessed Waters


National Hydrography Dataset


National Hydrography Dataset

☐

Points

 Gaging Station

 Rapids

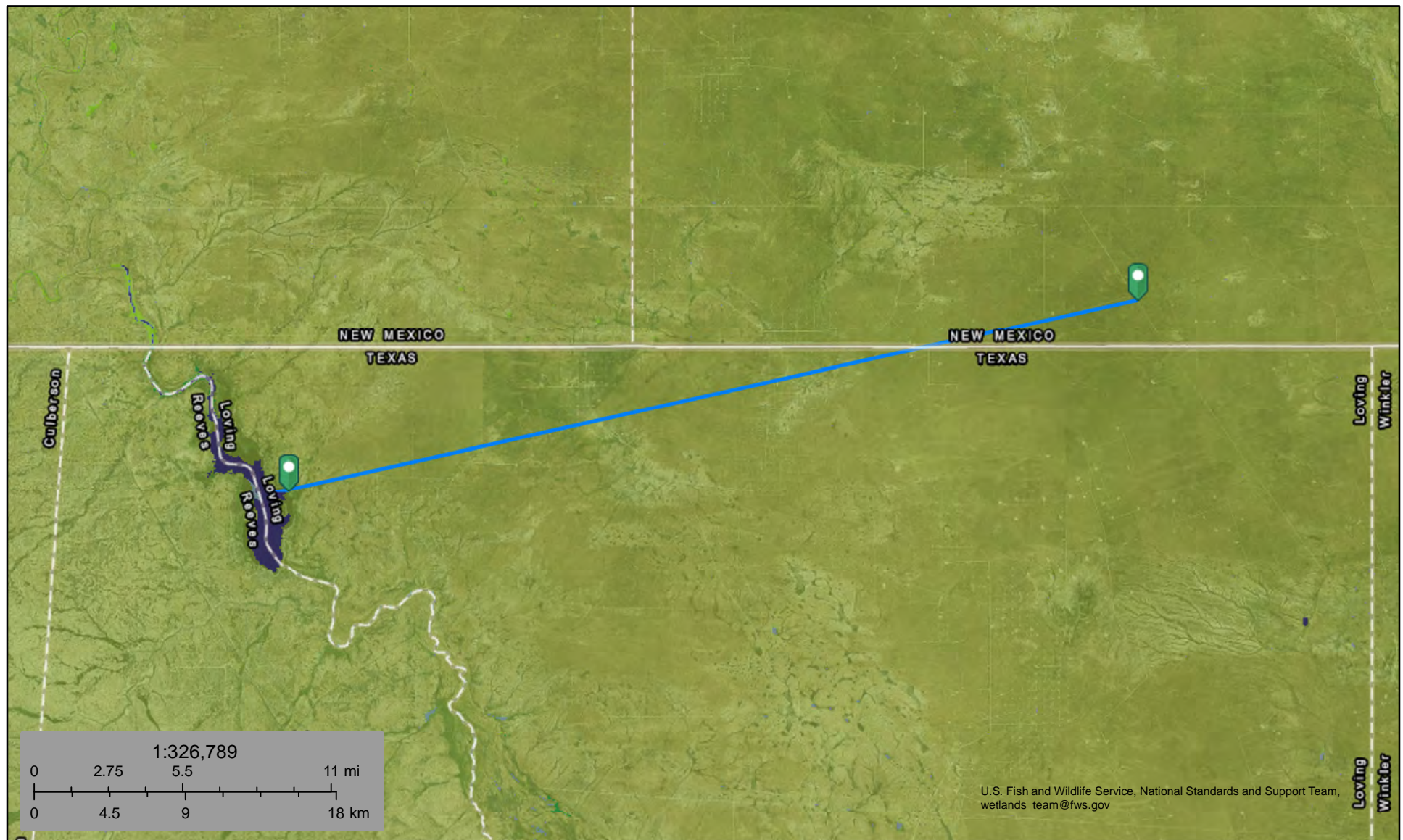
 Spring/Seep







Mena Green 27 fed #1 Lake 144,446 ft



April 15, 2019

	Estuarine and Marine Deepwater		Freshwater Forested/Shrub Wetland		Other
	Estuarine and Marine Wetland		Freshwater Pond		Riverine
	Freshwater Emergent Wetland		Lake		

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



59,300 feet to nearest resident

Legend  
Resident

Mean Green 27 Fed 1 32.0218811, -103.4508286

Resident

Resident

Resident

Jal







# New Mexico Office of the State Engineer

## Wells with Well Log Information



(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																				
POD Number	Code	basin	County	Source	6416	4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File	Depth	Depth	Driller	License	
																Well	Water		Number	
<a href="#">C 03442 POD1</a>	C	LE	Shallow	4	1	2	06	26S	34E	641056	3550028		8058	05/03/2010	05/03/2010	05/17/2010	251		EADES, ALAN	1044
<a href="#">C 03441 POD1</a>	C	LE	Shallow	4	1	2	06	26S	34E	640971	3550039		8122	05/03/2010	05/03/2010	05/17/2010	250		EADES, ALAN	1044

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 646300.58

Northing (Y): 3543909.94

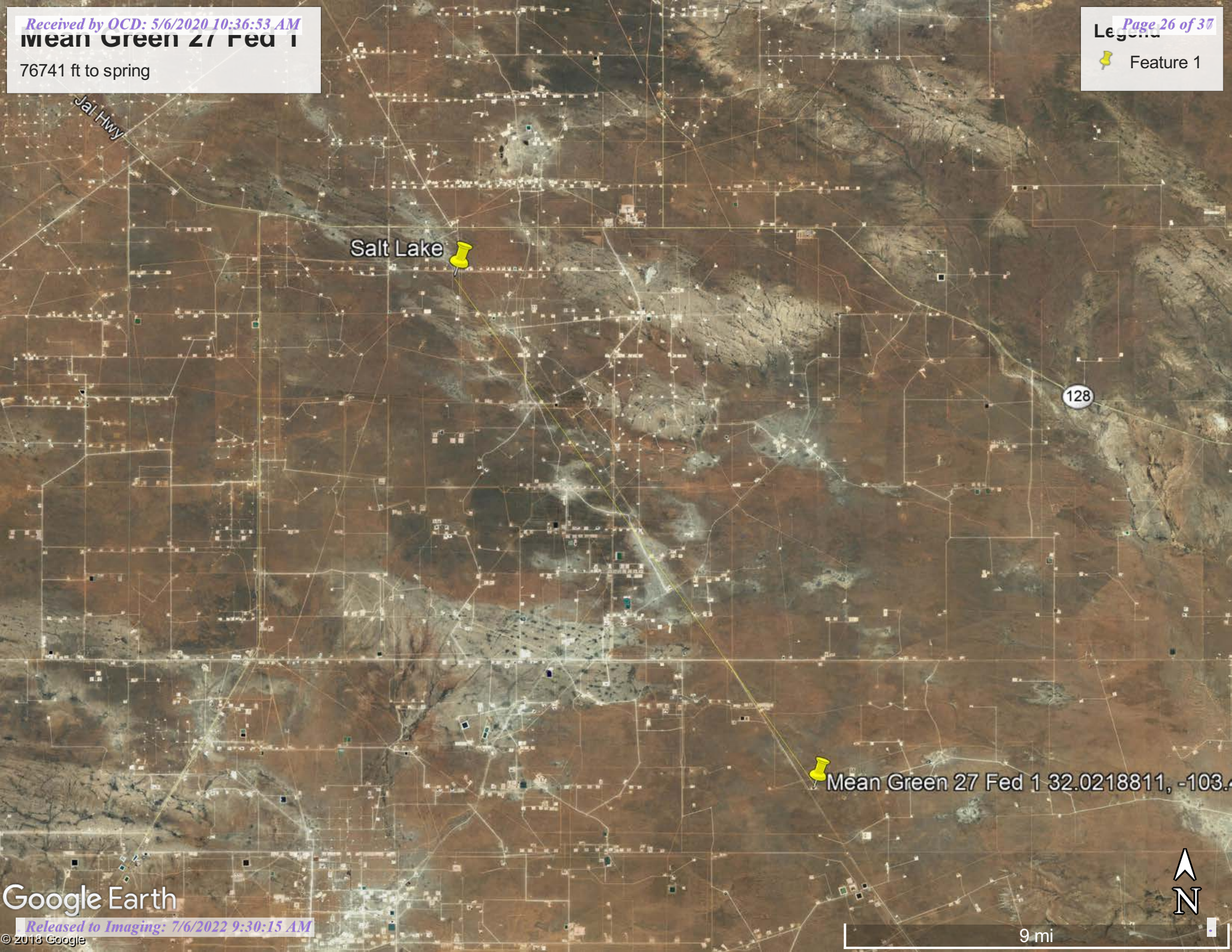
Radius: 10000

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.



76741 ft to spring

Feature 1







Mean Green 27 Fed #1 Wetland 5788 ft



April 15, 2019

**Wetlands**

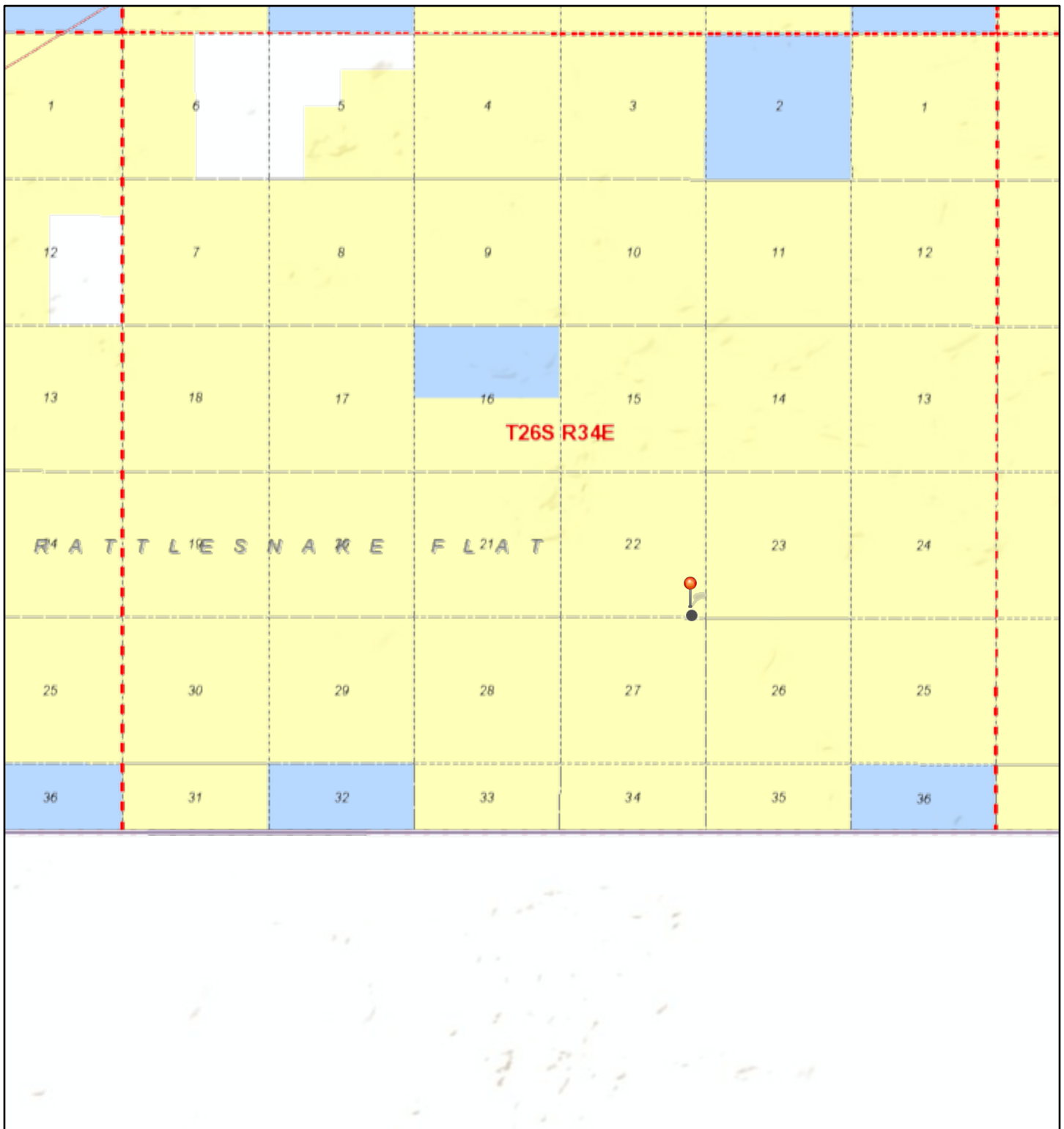
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

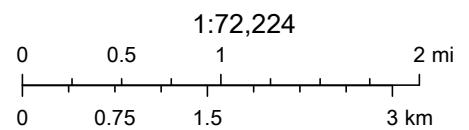
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Active Mines in New Mexico

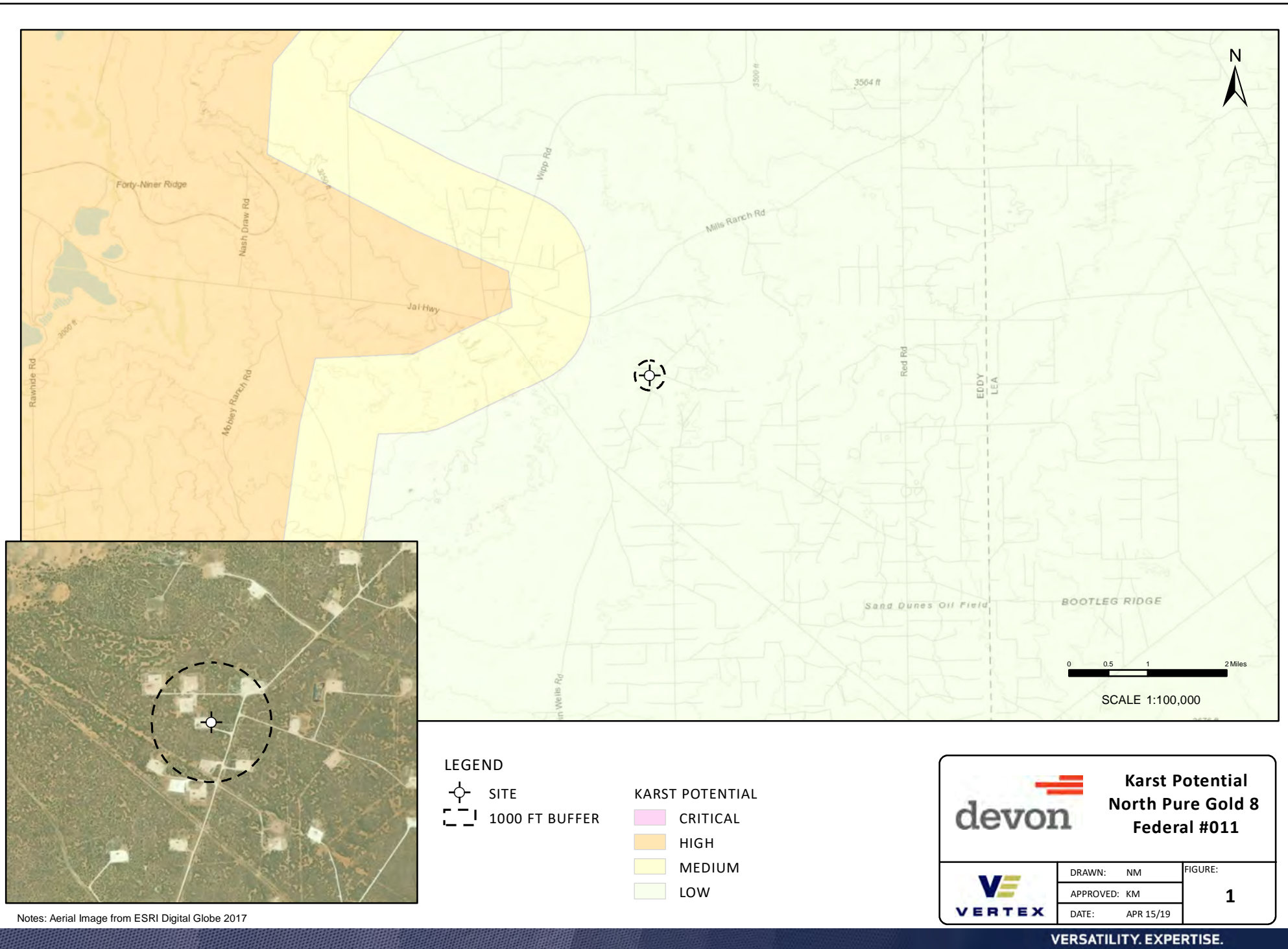


4/15/2019 4:10:17 PM



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS







# National Flood Hazard Layer FIRMette



32°1'34.02"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/15/2019 at 7:25:26 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## **ATTACHMENT 5**

**From:** [Dennis Williams](#)  
**To:** [jim.griswold@state.nm.us](mailto:jim.griswold@state.nm.us); [R Mann \(rmann@slo.state.nm.us\)](mailto:R.Mann@slo.state.nm.us); [amanda.davis@dmn.com](mailto:amanda.davis@dmn.com)  
**Cc:** [Pina, Aaron](#); [Bynum, Tom \(Contract\)](#); [Dhugal Hanton](#)  
**Subject:** Devon Energy - Mean Green 27 Fed 1 - Unassigned - Liner Inspection Notification  
**Date:** July 3, 2019 3:24:00 PM

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Afternoon All,

Please accept this email as 48hr notification that Vertex Resource Services Inc. has scheduled a liner inspection at the above named location on July 5<sup>th</sup> 2019 at 2:00 pm. Jason Crabtree from Vertex will be on site performing the inspection and can be reached at (432) 250-3456. If you need assistance with directions to site please do not hesitate to contact them. If you have any questions or concerns, please do not hesitate to contact me.



Incident ID	
District RP	
Facility ID	
Application ID	nOY1718451495

## 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>200</u> (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 <b>not</b> 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	
District RP	
Facility ID	
Application ID	nOY1718451495

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: Amanda Davis Title: Environmental Representative  
Signature: *Amanda Davis* Date: \_\_\_\_\_  
email: amanda.davis@dvn.com Telephone: 575-748-0176

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	nOY1718451495

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Amanda Davis Title: Environmental Presentative  
Signature: *Amanda Davis* Date: \_\_\_\_\_  
email: amanda.davis@dvn.com Telephone: 575-748-0176

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

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

Incident ID	
District RP	
Facility ID	
Application ID	nOY1718451495

## 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: Amanda Davis Title: Enviromental Representative  
Signature: *Amanda Davis* Date: 1/30/2020  
email: amanda.davis@dvn.com Telephone: 575-748-0176

**OCD Only**

Received by: \_\_\_\_\_ 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: Jocelyn Harimon Date: 07/06/2022  
Printed Name: \_\_\_\_\_ Title: Environmental Specialist

**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 8113

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 8113
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/6/2022