Site Information

Closure Report
Ragin Cajun 14 CTB
Lea County, New Mexico
Unit P Sec 14 T26S R34E
32.037052º, -103.434554º
Incident ID: NAPP2200425612

Crude Oil Release
Source: Oil tank over filled
Release Date: 01.02.22
Volume Released: 51 bbls/Crude Oil
Volume Recovered: 50 bbls/Crude Oil

Prepared for:
Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, NM 88210

Prepared by:
NTG Environmental
701 Tradewinds Blvd
Suite C
Midland, TX 79706

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APPENDICES

701 Tradewinds Boulevard, Suite C
Midland, Texas 79706
Tel. 432.685.3898
www.ntglobal.com

February 2, 2022

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
Ragin Cajun 14 CTB
Devon Energy Production Company
Site Location: Unit P, S14, T26S, R34E
(Lat 32.037052º, Long -103.434554º)
Incident ID: NAPP2200425612
Lea County, New Mexico

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document the liner inspection activities for the Ragin Cajun 14 CTB. The site is located at 32.037052º, -103.434554º within Unit P, S14, T26S, R34E, and approximately 15.25 miles Southwest of Jal, New Mexico, in Lea County (Figures 1 and 2).

Backgrounds

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 2, 2022, due to an oil tank overflowing. It resulted in the release of approximately fifty-one (51) barrels of crude oil, and fifty (50) barrels were recovered. The initial C-141 form is attached in Appendix A.

Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a ½ mile radius of the location. The nearest identified well is located approximately 1.67 miles Southeast of the site in S19, T26S, R35E. The well has a reported depth to groundwater of 198 feet below ground surface (ft bgs). A copy of the associated *National Water Information System* report is attached in Appendix B.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

Liner Inspection

On January 26, 2022, New Tech Global Environmental conducted liner inspection activities to assess the liner's integrity within the facility. NTGE personnel proceeded to inspect the liner visually. The liner was found to be intact with no integrity issues. Refer to the Photolog.

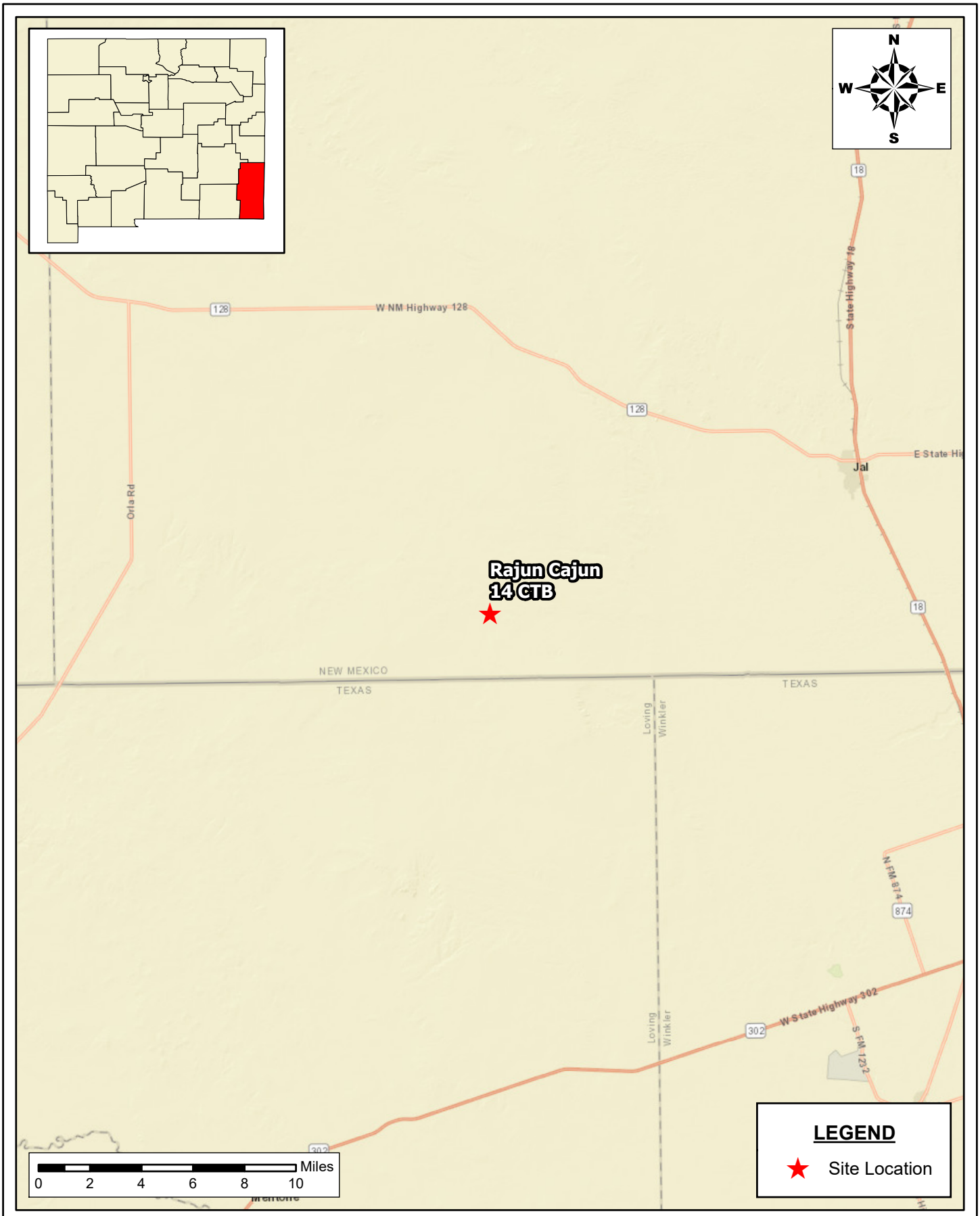
Conclusions

Based on the liner inspection throughout the facility, no further actions are required at the site. The final C-141 is attached, and Devon formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely,
NTG Environmental

Ashton Thielke
Project Manager

Figures



SITE LOCATION MAP
DEVON ENERGY
RAJUN CAJUN 14 CTB
LEA COUNTY, NEW MEXICO
32.037052, -103.434554

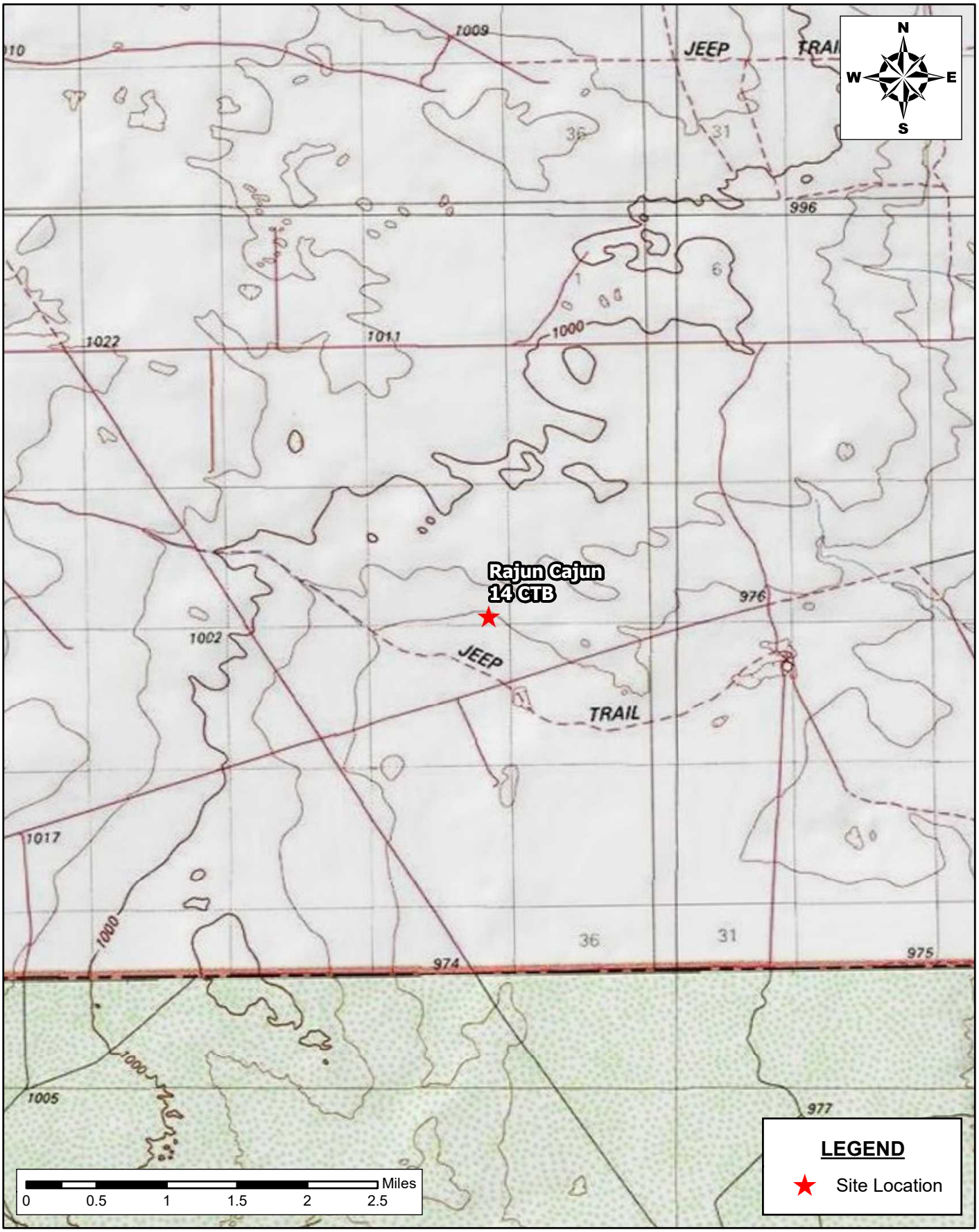
SCALE: As Shown | Date: 1/31/2022 | PROJECT #: 225190

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

Document Path: P:\2022 PROJECTS\DEVON\225190 - Ragin Cajun 14 CTB\7 - Figures\GIS\Geodatabase\Figure_1_SLMap_01312021.mxd



AREA MAP
DEVON ENERGY
RAJUN CAJUN 14 CTB
LEA COUNTY, NEW MEXICO
32.037052, -103.434554

SCALE: As Shown | Date: 1/31/2022 | PROJECT #: 225190

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

Document Path: P:\2022 PROJECTS\DEVON\225190 - Ragin Cajun 14 CTB\7 - Figures\GIS\Geodatabase\Figure_2_AREAMap_01312021.mxd

SECONDARY CONTAINMENT MAP
DEVON ENERGY
RAJUN CAJUN 14 CTB
LEA COUNTY, NEW MEXICO
32.037052, -103.434554

SCALE: As Shown	Date: 2/1/2022	PROJECT #: 225190

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

Document Path: P:\2022 PROJECTS\DEVON\225190 - Ragin Cajun 14 CTB\7 - Figures\GIS\Geodatabase\Figure_3_Liner_02012022.mxd

Photo Log

PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 1

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View North, Area of Lined Containment

Photograph No. 2

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

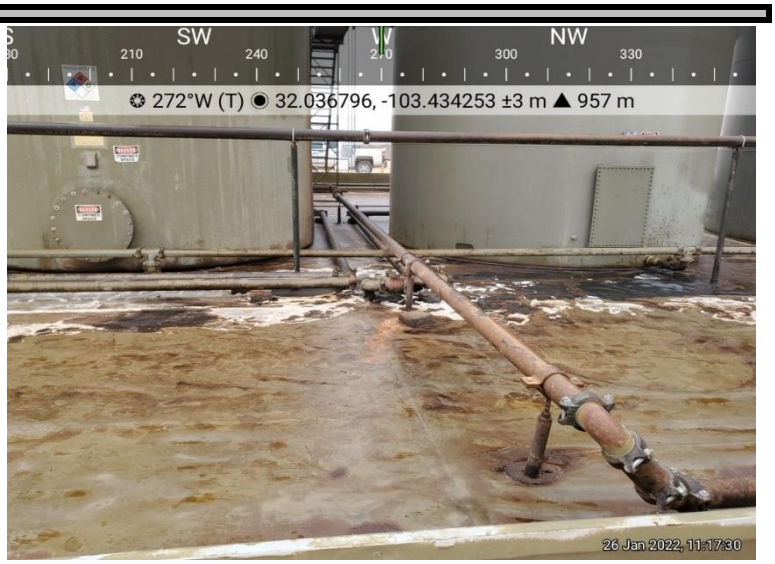
Description:
View Northwest, Area of Lined Containment

Photograph No. 3

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View West, Area of Lined Containment



PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 4

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View South, Area of Lined Containment

Photograph No. 5

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View Northwest, Area of Lined Containment

Photograph No. 6

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View West, Area of Lined Containment

PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 7

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View Southeast, Area of Lined Containment

Photograph No. 8

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View North, Area of Lined Containment

Photograph No. 9

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View Southeast, Area of Lined Containment

PHOTOGRAPHIC LOG

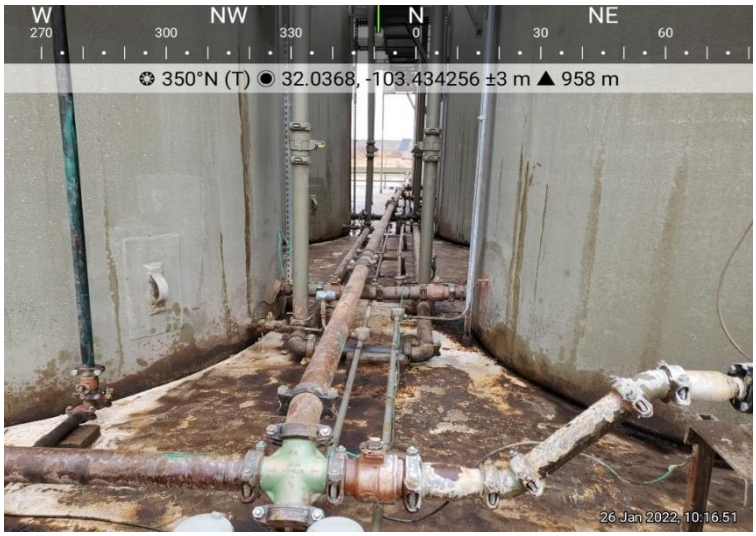
Devon Energy Production Company

Photograph No. 10

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View North, Area of Lined Containment



Photograph No. 11

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

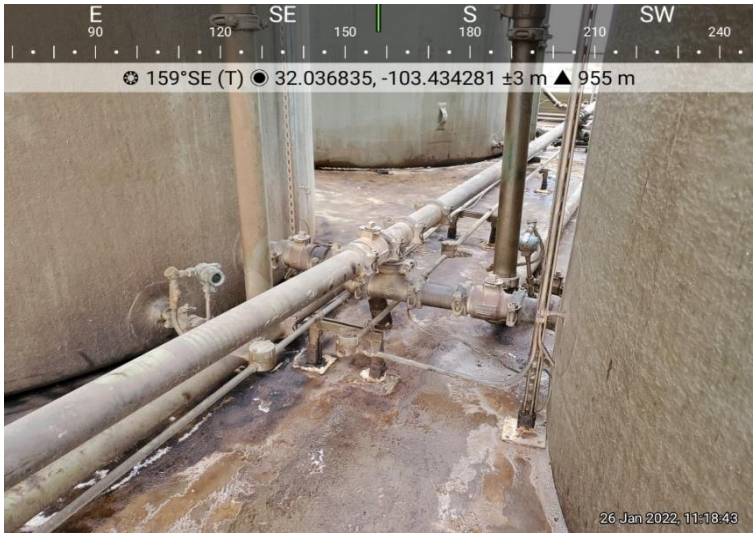
Description:
View South, Area of Lined Containment

Photograph No. 12

Facility: Ragin Cajun 14 CTB

County: Lea County, New Mexico

Description:
View Southeast, Area of Lined Containment



Appendix A

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	
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)

☐ 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		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

☐ 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: Kendra DeHoyos Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	143
Width(Ft)	40
Depth(in.)	0.75
Total Capacity without tank displacements (bbls)	63.67
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.	51.08

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
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: _____ Title: _____

Signature: Wesley Mathews Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
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: _____ Title: _____

Signature: Wesley Mathews _____ Date: _____

email: _____ Telephone: _____

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: Jennifer Nobui Date: 02/28/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Appendix B

Nearest Water Well

Devon Energy

Legend

- 0.50 Mile Radius
- 1.67 Miles
- Ragin Cajun 14 CTB
- USGS Water Well

Ragin Cajun 14 CTB

198' - Drilled 1961

N

1 mi

Google Earth

Low Karst

Devon Energy

Legend

- LOW
- Ragin Cajun 14 CTB

Ragin Cajun 14 CTB

N

4000 ft

Google Earth

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 647822.17 **Northing (Y):** 3545621.12 **Radius:** 5500

National Water Information System: Web Interface

USGS Water Resources | Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320150103235501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320150103235501 26S.35E.19.142

Lea County, New Mexico
Latitude 32°01'53", Longitude 103°24'25" NAD27
Land-surface elevation 3,190 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1961-12-20		D	62610		2992.00	NGVD29	1	O	USGS	S	A
1961-12-20		D	62611		2993.51	NAVD88	1	O	USGS	S	A
1961-12-20		D	72019	198.00			1	O	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	O	Observed.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

New Mexico NFHL Data

January 28, 2022

1:9,028

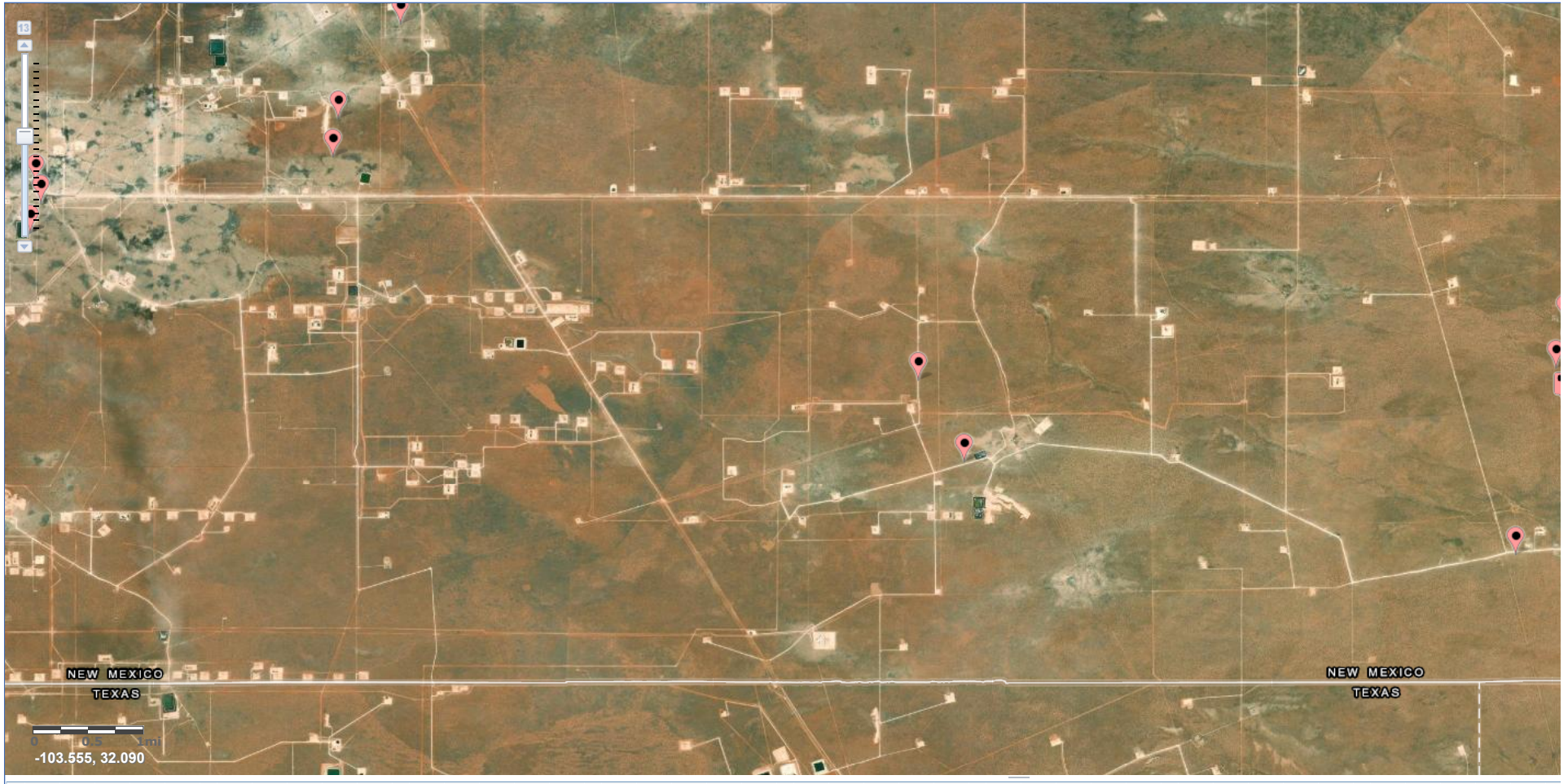
0 0.075 0.15 0.3 mi

0 0.1 0.2 0.4 km

FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

USGS science for a changing world

National Water Information System: Mapper



Site Information

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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	6137
	Action Number: 82181
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note for future, depth to groundwater evaluation inadequate; needs to be within 0.5 miles. Going forward, please include a copy of the 2 business day notification of liner inspection in report.	2/28/2022