



Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

March 19th, 2021

NMOCD District 2
Mr. Mike Bratcher
811 S. First Street
Artesia, NM 88210

Bureau of Land Management
Mr. Jim Amos
620 East Green Street
Carlsbad, NM 88220

**Re: Liner Inspection and Closure Report
Pioneer Federal #1
API No. 30-015-24777
GPS: Latitude 32.46730 Longitude -104.22630
UL "G", Sec. 19, T21S, R27E
Eddy County, NM
NMOCD Ref. No. NRM1933049719 (2RP-5712)**

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for a condensate/produced water release that occurred at the Pioneer Fed #1 (Pioneer). The initial C-141 was submitted on September 12th, 2019 (Appendix B). This incident was assigned Incident ID NRM1933049719 (2RP-5712), by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Pioneer is located approximately three (3) miles north of Carlsbad, NM. This spill site is in Unit G, Section 19, Township 21S, Range 27E, Latitude 32.46730, Longitude -104.22630, Eddy County, NM. Figure 1 references a location map.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 75 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 29 feet BGS. The closest waterway is Lake Avalon located approximately 1.9 miles to the northwest of this location. See Appendix A for referenced water surveys.

Release Information

NRM1933049719 (2RP-5712): On September 3rd, 2019, a Devon lease operator discovered fluid standing inside the lined, secondary containment. The cause was attributed to a possible hole in the bottom of a tank. The fluids released into containment were calculated to be approximately 70 barrels (bbls) of condensate/produced water mixed. All fluids were recovered.

Site Assessment and Liner Inspection

On March 5th, 2021 Pima Environmental conducted a liner inspection at this facility. The liner inspection form and photo documentation can be found in Appendix C.

Closure Request

After careful review, Pima requests that this incident, NRM1933049719 (2RP-5712), be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Respectfully,

Tom Bynum
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Site Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – C-141s
- Appendix C – Liner Inspection & Photo Documentation



Pima Environmental Services

Figures:

1 – Location Map

2-Site Map

Devon Energy

Pioneer Federal #1
API 30-015-24777
Eddy County, NM
Location Map

Legend

● Pioneer Fed #1





Google Earth

Pioneer Fed #1

Devon Energy
API #30-015-24777
Eddy County, NM
Site Map

Legend

-  Lined Containment
-  Pioneer Fed 1



Google Earth

200 ft



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Appendix A

Water Surveys:

OSE

USGS



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 | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | DepthWell | DepthWater | Water Column |
|------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| C_03867 POD1 | | CUB | ED | 2 | 3 | 2 | 19 | 21S | 27E | 572689 | 3592615 | 103 | 425 | 75 | 350 |
| C_03627 POD1 | | C | ED | 1 | 3 | 2 | 19 | 21S | 27E | 572566 | 3592494 | 154 | 400 | 75 | 325 |
| C_01280 | | C | ED | 2 | 1 | 4 | 19 | 21S | 27E | 572741 | 3592161* | 356 | 100 | 58 | 42 |
| C_00440 | | C | ED | | | | 19 | 21S | 27E | 572466 | 3592235* | 378 | 85 | 30 | 55 |
| C_01119 | | C | ED | 1 | 1 | 4 | 19 | 21S | 27E | 572541 | 3592161* | 397 | 105 | 42 | 63 |
| C_00871 | | C | ED | | 1 | 4 | 19 | 21S | 27E | 572642 | 3592062* | 460 | 95 | 33 | 62 |
| C_01046 | | C | ED | | 1 | 4 | 19 | 21S | 27E | 572642 | 3592062* | 460 | 360 | 32 | 328 |
| C_01199 | | C | ED | | 1 | 4 | 19 | 21S | 27E | 572642 | 3592062* | 460 | 389 | 57 | 332 |
| C_02049 | | C | ED | | 1 | 4 | 19 | 21S | 27E | 572642 | 3592062* | 460 | 85 | 59 | 26 |
| C_02177 | | C | ED | | 4 | 1 | 19 | 21S | 27E | 572237 | 3592459* | 485 | | 70 | |

Average Depth to Water: **53 feet**

Minimum Depth: **30 feet**

Maximum Depth: **75 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 572719.148

Northing (Y): 3592516.407

Radius: 500

*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.

2/19/21 9:57 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

site_no list =

- 322746104133601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 322746104133601 21S.27E.19.413433

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°27'46", Longitude 104°13'36" NAD27

Land-surface elevation 3,141 feet above NAVD88

The depth of the well is 375 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

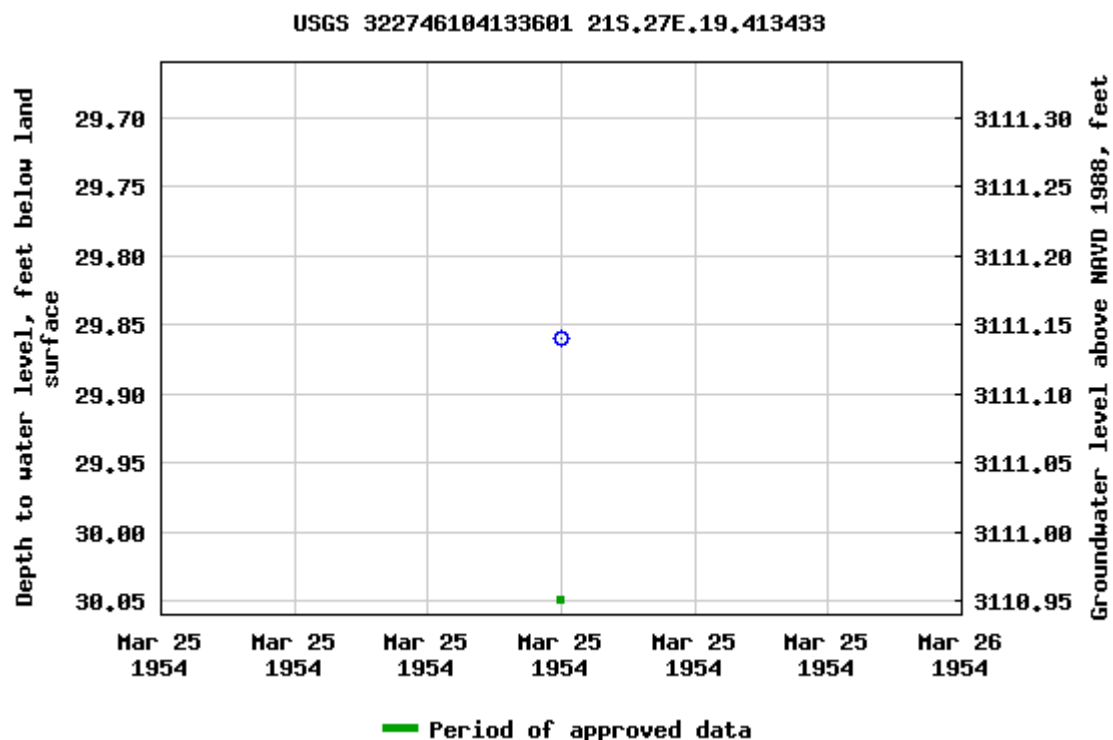
Output formats

[Table of data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-02-26 10:51:42 EST

0.65 0.56 nadww02





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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

site_no list =

- 322736104140201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 322736104140201 21S.27E.19.334132

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°27'36", Longitude 104°14'02" NAD27

Land-surface elevation 3,135 feet above NAVD88

The depth of the well is 320 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

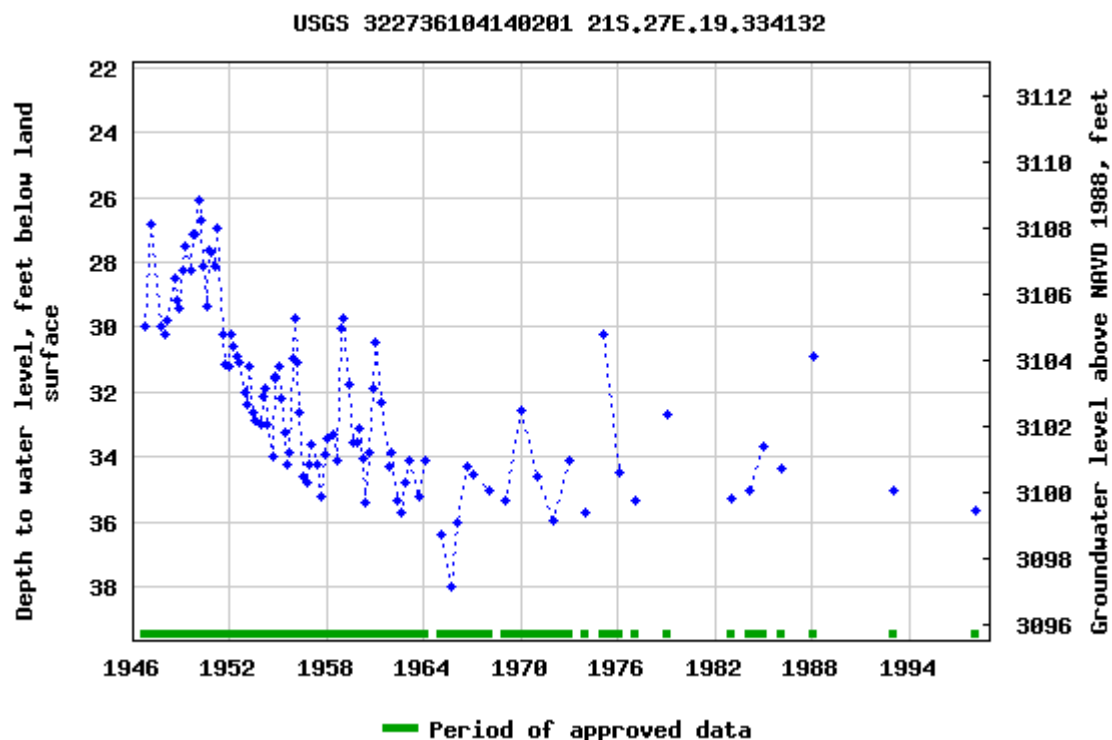
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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Page Contact Information: [USGS Water Data Support Team](#)

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Pima Environmental Services

Appendix B

C-141's:

Initial

Final

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 | NRM1933049719 |
| District RP | 2RP-5712 |
| Facility ID | |
| Application ID | pRM1933049113 |

Release Notification 6J593-191023-C-1410

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

| | |
|----------------|---------------|
| Incident ID | NRM1933049719 |
| District RP | 2RP-5712 |
| Facility ID | |
| Application ID | pRM1933049113 |

| | |
|--|--|
| 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>11/26/2019</u> |

| | |
|----------------|---------------|
| Incident ID | NRM1933049719 |
| District RP | 2RP-5712 |
| Facility ID | |
| Application ID | pRM1933049113 |

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? | <50' (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 | NRM1933049719 |
| District RP | 2RP-5712 |
| Facility ID | |
| Application ID | pRM1933049113 |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wes Mathews Title: EHS ProfessionalSignature: *Wesley Mathews* Date: 3/19/2021email: wesley.mathews@dmn.com Telephone: 575-513-8608**OCD Only**

Cristina Eads

Received by: _____ Date: 04/26/2021

| | |
|----------------|---------------|
| Incident ID | NRM1933049719 |
| District RP | 2RP-5712 |
| Facility ID | |
| Application ID | pRM1933049113 |


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: Wes Mathews Title: EHS Professional
Signature:  Date: 3/19/2021
email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Received by: Cristina Eads Date: 04/26/2021

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:  Date: 07/21/2021
Printed Name: Cristina Eads Title: Environmental Specialist



Pima Environmental Services

Appendix C

Liner Inspection Form

Photo Documentation



Pima Environmental Services, LLC

Liner Inspection FormCompany Name: Devon EnergySite: Pioneer Fed Com #1Lat/Long: 32.46730, -104.22630NMOCD Incident ID
& Incident Date: NRM1933049719 (2RP-5712) -- 9/3/20192-Day Notification
Sent: March 3rd, 2021Inspection Date: March 5th, 2021


Liner Type: Earthen w/liner Earthen no liner Polystar

Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

| Visualization | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|------------------|
| Is there a tear in the liner? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are there holes in the liner? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Is the liner retaining any fluids? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Recent snow melt |
| Does the liner have integrity to contain a leak? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Comments: _____

Inspector Name: Robert Carper Inspector Signature: 













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 22673

CONDITIONS

| | |
|--|---|
| Operator: Pima Environmental Services, LLC 1601 N. Turner Hobbs, NM 88240 | OGRID: 329999 |
| | Action Number: 22673 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| ceads | None | 7/21/2021 |