

Incident ID	nAPP2213648339
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?	285' (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.

Oil Conservation Division

Incident ID	nAPP2213648339
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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: Dale Woodall Title: Env. Professional

Signature: \_\_\_\_\_ Date: 10.18.2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 10/18/2022

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## 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.

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Printed Name: Dale Woodall Title: Env. Professional

Signature: \_\_\_\_\_ Date: 10.18.2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 10/18/2022

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

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

Incident ID	nAPP2213648339
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## 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: Dale Woodall Title: Env. Professional  
Signature: \_\_\_\_\_ Date: 10.18.2022  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 10/18/2022

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: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



402 E. Wood Avenue  
Carlsbad, New Mexico 88220  
Tel. 432.701.2159  
www.ntgenvironmental.com

July 12, 2022

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

**Re: Closure Report  
Caballo 9 State 1 SWD  
Devon Energy Production Company  
Site Location: Unit E, S9-T23S-R34E  
(Lat 32.321814, Long -103.481565)  
Eddy County, New Mexico  
Incident ID: nAPP2213648339**

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 following a produced water release at the Caballo 9 State 1 SWD (Site) location. The Site is located in Lea County approximately 20 miles southwest of Eunice, New Mexico (Figures 1 and 2).

### **Background**

Based on the initial C-141 (attached) obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 13, 2022. Approximately 122.80 barrels of produced water was released as a result of a storage tank overflow. All fluids were confined within secondary containment and recovered. The initial C-141 form is attached.

### **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 one water well within a 0.5 mile radius of the Site. The well was drilled in 2019 and is located approximately 0.49 miles northeast of the Site in Section 04, T23S, R34E. The well has a reported depth to groundwater of 285' feet below ground surface (ft bgs).

Review of USGS topographic map (Figure 2) and National Flood Hazard Layer (NFHL) data identified one significant watercourse within a 0.5 mile of the Site.

A copy of the site characterization information and the associated USGS Water Resources report for the nearest water well is attached.

Mr. Mike Bratcher  
July 12, 2022  
Page 2 of 2

### **Regulatory Criteria**

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable to the Site.

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

### **Liner Inspection**

On June 15, 2022, NTGE conducted liner inspection activities to assess the liner integrity at the Site. NTGE personnel conducted a visual inspection of the liner and found the liner to be intact with no integrity issues (i.e., rips, punctures, openings, etc.) A photographic log documenting the condition of the liner at the time of the inspection is attached. Additionally, a copy of the 48-hour advance notification of the liner inspection activities provided to the NMOCD is also attached.

### **Conclusions**

Based on the findings of the liner inspection, no further actions are required at the Site. The final C-141 is attached and Devon formally requests a no further action designation for the release. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Project Manager

#### Attachments:

Initial and Final C-141  
Site Characterization Information  
Figures  
Photographic Log  
NMOCD 48-Hour Advance Notification

## **INITIAL AND FINAL C-141**

---

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department  
  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

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## 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

Incident ID	
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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: _____	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: _____

Incident ID	nAPP2213648339
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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.

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 11/16/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

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

Incident ID	nAPP2213648339
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## 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)

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Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 11/16/2022  
email: dale.woodall@dv.com Telephone: 575-748-1838

**OCD Only**

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

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

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

Incident ID	nAPP2213648339
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## 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

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Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 11/16/2022  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

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

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Closure Approved by: Jennifer Nobui Date: 11/16/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

NAPP2213648339

<b>Spills In Lined Containment</b>		
Measurements Of Standing Fluid		
Length(Ft)	80	
Width(Ft)	20	
Depth(in.)	8	
<b>Total Capacity without tank displacements (bbls)</b>	<b>189.98</b>	
No. of 500 bbl Tanks In Standing Fluid	3	
No. of Other Tanks In Standing Fluid	1	
OD Of Other Tanks In Standing Fluid(feet)		
Total Volume of standing fluid accounting for tank displacement.	122.80	
<b><u>Instructions</u></b>		
1. Input spill area measurements in feet, if less than one foot use converter below.		
2. Select a soil type from the drop down menu.		
3. Select a saturation level from the drop down menu.		
(For data gathering instructions see appendix tab)		
<b><u>Inches to Feet Converter</u></b>		
	Inches	Feet
Length		80.000
Width		20.000

## **SITE CHARACTERIZATION INFORMATION**

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Devon Energy - Caballo 9 State #1 SWD  
Sec 09 T23S R34E Unit E  
32.321634°N, -103.481215°W  
Lea County, New Mexico

Site Characterization

- 1 water feature within specified distance of 1/2 mile radius

-Low Karst

-NMSEO Groundwater is 290' below surface, .86 miles Southsoutheast of the site, 2020 Drilled, Section 16, T23S, R34E

-NMSEO Groundwater is 285' below surface, .49 miles North of the site, 2019 Drilled, Section 04, T23S, R34E

-NMSEO Groundwater is 300' below surface, .66 miles Northnorthwest of the site, 2017 Drilled, Section 05, T23S, R34E

-USGS Groundwater is 345.30' below surface, 1.62 miles South of the site, 1996 Drilled, Section 16, T23S, R34E

-USGS Groundwater is 328.93' below surface, 1.61 miles West of the site, 1986 Drilled, Section 07, T23S, R34E

RRALs due to insufficient \*RECENT\* groundwater data

-Chlorides 600 mg/kg

-TPH GRO+DRO+MRO 100 mg/kg

-BTEX 50 mg/kg

-Benzene 10 mg/kg

# Low Karst

Devon Energy  
Lea County, New Mexico  
Site Coordinates: 32.321634, -103.481215

**Legend**

- Site Location
- LOW



1 mi

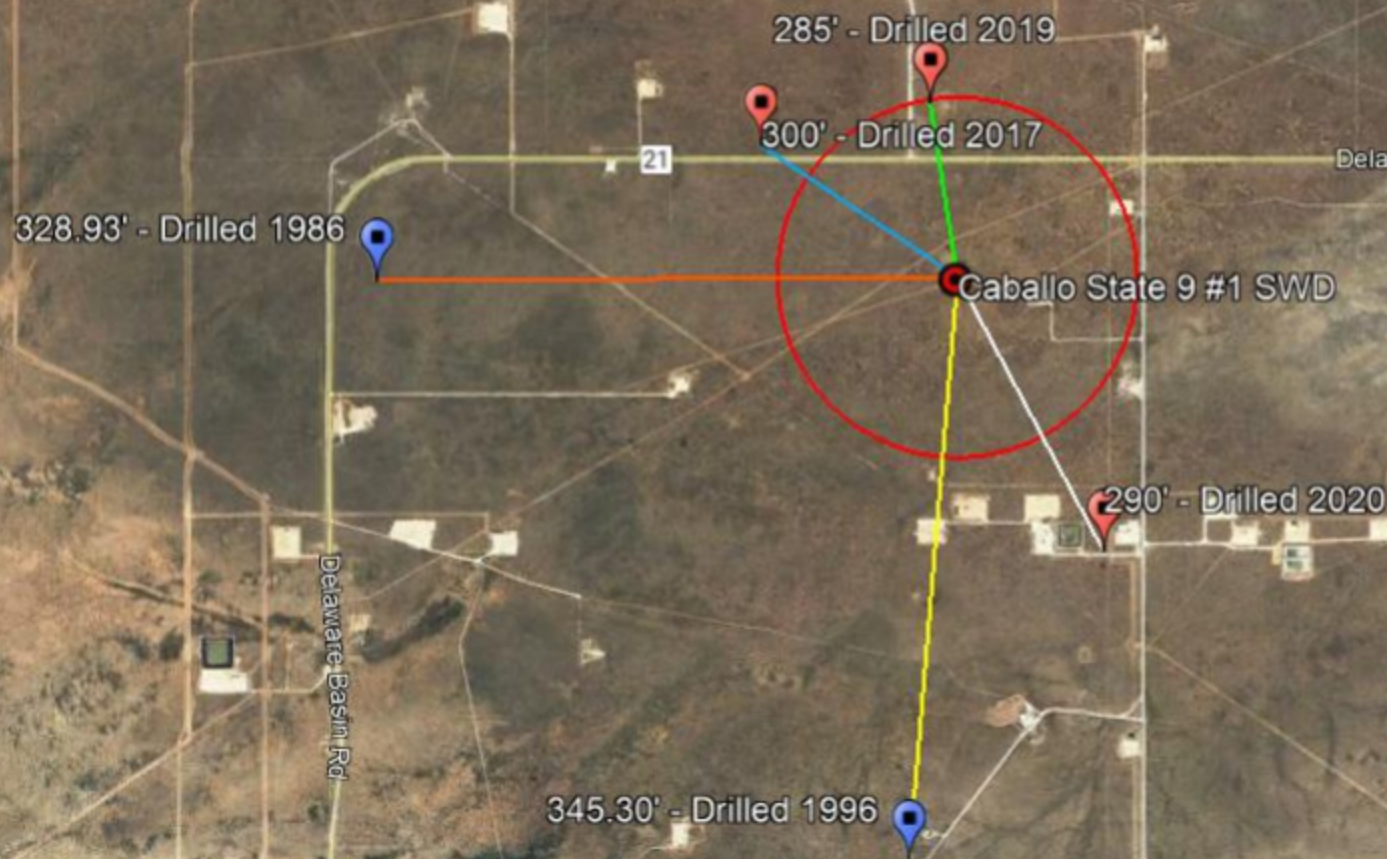
N

## Nearest water well

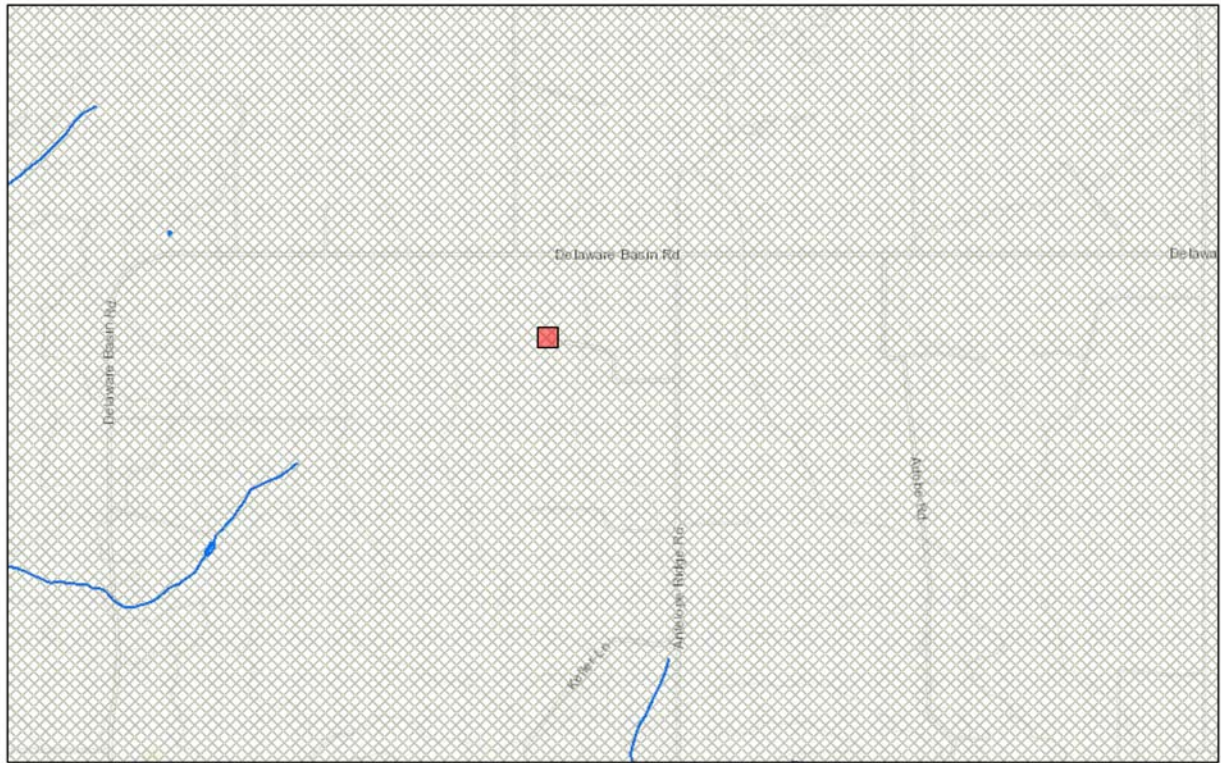
Devon Energy  
Lea County, New Mexico  
Site Coordinates: 32.321634, -103.481215

### Legend

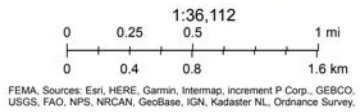
-  .49 Miles N
-  .66 Miles NNW
-  .86 Miles SSE
-  1.61 Miles W
-  1.62 Miles S
-  1/2 Mile Radius
-  NMSEO Water Well
-  Site Location
-  USGS Water Well



New Mexico NFHL Data



July 7, 2022





## New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)		(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X</b>	<b>Y</b>	
NA	CP 01622 POD1	1 3 3 04 23S 34E	642830	3577872	

**Driller License:** 1706      **Driller Company:** ELITE DRILLERS CORPORATION

**Driller Name:** BRYCE WALLACE

**Drill Start Date:** 09/20/2019      **Drill Finish Date:** 10/02/2019      **Plug Date:**

**Log File Date:** 10/17/2019      **PCW Rcv Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 280 GPM

**Casing Size:** 9.70      **Depth Well:** 575 feet      **Depth Water:** 285 feet


<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	150	470	Sandstone/Gravel/Conglomerate
	470	575	Shale/Mudstone/Siltstone

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	275	575

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.

7/7/22 9:43 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01760 POD1	3	1	2	16	23S	34E	643627	3575897

Driller License: 1706

Driller Company: ELITE DRILLERS CORPORATION

Driller Name: WALLACE, BRYCE J.LEE.NER

Drill Start Date: 02/01/2020

Drill Finish Date: 03/15/2020

Plug Date:

Log File Date: 04/09/2020

PCW Rcv Date:

Source: Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield: 80 GPM

Casing Size: 8.00

Depth Well: 767 feet

Depth Water: 290 feet

Water Bearing Stratifications:

Top	Bottom	Description
285	320	Sandstone/Gravel/Conglomerate
320	350	Shale/Mudstone/Siltstone
350	445	Sandstone/Gravel/Conglomerate
445	495	Shale/Mudstone/Siltstone
495	530	Sandstone/Gravel/Conglomerate
530	555	Sandstone/Gravel/Conglomerate
555	570	Sandstone/Gravel/Conglomerate
570	585	Sandstone/Gravel/Conglomerate
585	600	Shale/Mudstone/Siltstone
600	630	Shale/Mudstone/Siltstone
630	660	Sandstone/Gravel/Conglomerate
660	710	Sandstone/Gravel/Conglomerate
710	750	Limestone/Dolomite/Chalk

Casing Perforations:

Top	Bottom
567	767

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## New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	CP 01502 POD2	4	3	3	05	23S	34E
						642074	3577676

<b>Driller License:</b> 1626	<b>Driller Company:</b> TAYLOR, ROY ALLEN	
<b>Driller Name:</b> TAYLOR, ROY A.		
<b>Drill Start Date:</b> 11/22/2017	<b>Drill Finish Date:</b> 12/09/2017	<b>Plug Date:</b>
<b>Log File Date:</b> 12/21/2017	<b>PCW Rev Date:</b> 02/07/2019	<b>Source:</b> Shallow
<b>Pump Type:</b> SUBMER	<b>Pipe Discharge Size:</b> 3	<b>Estimated Yield:</b> 100 GPM
<b>Casing Size:</b> 9.58	<b>Depth Well:</b> 680 feet	<b>Depth Water:</b> 300 feet

Water Bearing Stratifications:	Top	Bottom	Description
	225	377	Sandstone/Gravel/Conglomerate
	391	478	Sandstone/Gravel/Conglomerate
	489	674	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	225	680

<b>Meter Number:</b> 17822	<b>Meter Make:</b> TURBINES INC	
<b>Meter Serial Number:</b> 1721046	<b>Meter Multiplier:</b> 1.0000	
<b>Number of Dials:</b> 7	<b>Meter Type:</b> Diversion	
<b>Unit of Measure:</b> Barrels 42 gal.	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly	

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
11/01/2018	2018	1187267	A	RPT	0
06/01/2020	2020	2859834	A	RPT	215.583
07/01/2020	2020	2926718	A	RPT	8.621
09/01/2020	2020	3051907	A	RPT Not an Approved Meter	16.136
10/01/2020	2020	3141874	A	RPT	11.596
11/01/2020	2020	3238147	A	RPT	12.409
12/01/2020	2020	3300990	A	RPT	8.100
01/01/2021	2020	3359045	A	RPT	7.483
02/01/2021	2021	3435195	A	RPT	9.815
03/01/2021	2021	3511183	A	RPT	9.794
07/01/2021	2021	3814277	A	ad	39.067
08/01/2021	2021	3882219	A	ad	8.757
09/01/2021	2021	3955833	A	ad	9.488
11/01/2021	2021	4133346	A	ad	22.880

**YTD Meter Amounts:	Year	Amount
	2018	0
	2020	279.928
	2021	99.801

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7/7/22 9:54 AM

POINT OF DIVERSION SUMMARY



# 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="#">CP 01622 POD1</a>	CP	LE		1	3	3	04	23S	34E	642830	3577872	782	575	285	290
<a href="#">CP 01502 POD2</a>	CP	LE		4	3	3	05	23S	34E	642074	3577676	1058	680	300	380
<a href="#">CP 01760 POD1</a>	CP	LE		3	1	2	16	23S	34E	643627	3575897	1374	767	290	477

Average Depth to Water: **291 feet**

Minimum Depth: **285 feet**

Maximum Depth: **300 feet**

**Record Count: 3**

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 642961.54

**Northing (Y):** 3577100.54

**Radius:** 1400

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7/7/22 9:52 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category:Groundwater

Geographic Area:New Mexico

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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 =

- 321917103303001

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321917103303001 23S.34E.06.43314

Lea County, New Mexico  
Latitude 32°19'17", Longitude 103°30'30" NAD27  
Land-surface elevation 3,480 feet above NAVD88  
The depth of the well is 640 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1968-06-11			D 62610		3139.47	NGVD29	1	Z			A
1968-06-11			D 62611		3141.10	NAVD88	1	Z			A
1968-06-11			D 72019	338.90			1	Z			A
1986-03-21			D 62610		3149.44	NGVD29	1	Z			A
1986-03-21			D 62611		3151.07	NAVD88	1	Z			A
1986-03-21			D 72019	328.93			1	Z			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
<a href="#">Parameter code</a>	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
<a href="#">Status</a>	1	Static
Method of measurement	Z	Other.
<a href="#">Measuring agency</a>		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**

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

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-07-07 12:54:29 EDT

0.28 0.24 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

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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 =

- 321734103290001

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321734103290001 23S.34E.16.333312

Lea County, New Mexico  
Latitude 32°17'53", Longitude 103°28'59" NAD27  
Land-surface elevation 3,478.00 feet above NGVD29  
The depth of the well is 400 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1971-01-13			D 62610		3133.95	NGVD29	1	Z			A
1971-01-13			D 62611		3135.58	NAVD88	1	Z			A
1971-01-13			D 72019	344.05			1	Z			A
1976-12-16			D 62610		3130.62	NGVD29	1	Z			A
1976-12-16			D 62611		3132.25	NAVD88	1	Z			A
1976-12-16			D 72019	347.38			1	Z			A
1981-03-30			D 62610		3132.60	NGVD29	1	Z			A
1981-03-30			D 62611		3134.23	NAVD88	1	Z			A
1981-03-30			D 72019	345.40			1	Z			A
1986-03-21			D 62610		3130.20	NGVD29	1	Z			A
1986-03-21			D 62611		3131.83	NAVD88	1	Z			A
1986-03-21			D 72019	347.80			1	Z			A
1996-03-08			D 62610		3132.70	NGVD29	1	S			A
1996-03-08			D 62611		3134.33	NAVD88	1	S			A
1996-03-08			D 72019	345.30			1	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

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**

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

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-07-07 12:48:22 EDT

0.34   0.3 nadww01

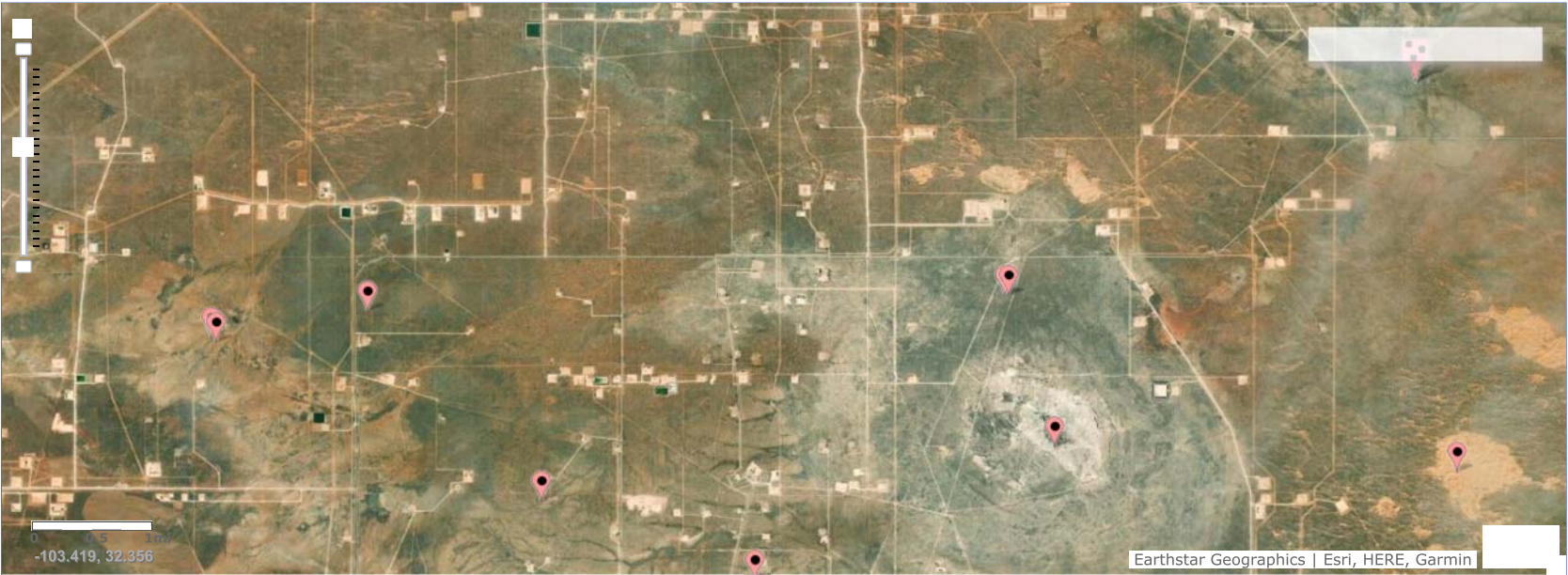




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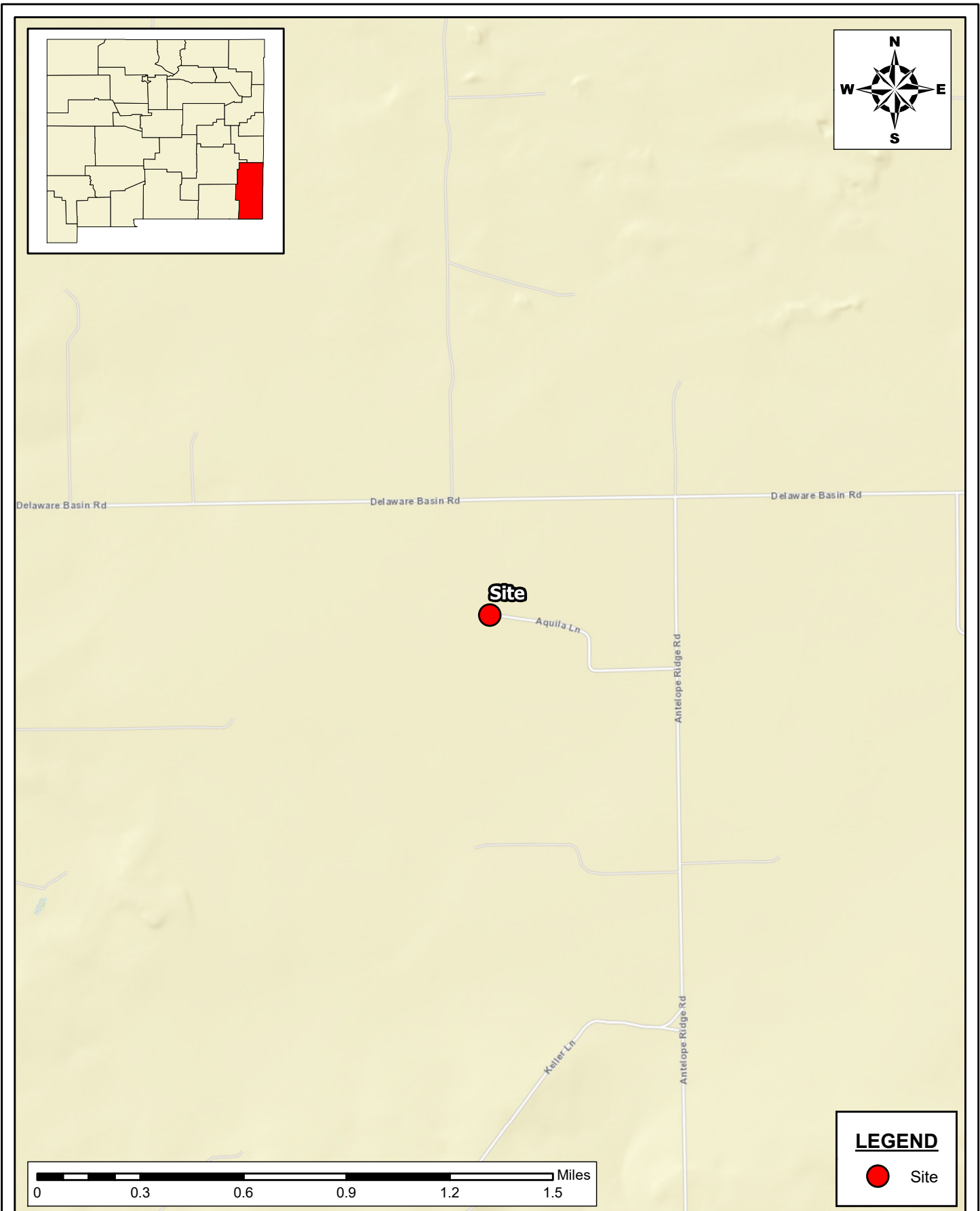


Site Information

## **FIGURES**

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Document Path: P:\2022 PROJECTS\DEVON\SC225690 - Caballo 9 State 1 SWD\7- Figures\GIS\Figure\_1\_SL.mxd



**SITE LOCATION MAP**  
**SITE ASSESSMENT REPORT**  
 CABALLO 9 STATE 1 SWD  
 DEVON Energy Production Co.  
 LEA COUNTY, NEW MEXICO

SCALE: As Shown    Date: 7/1/2022    PROJECT #: 225690



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

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

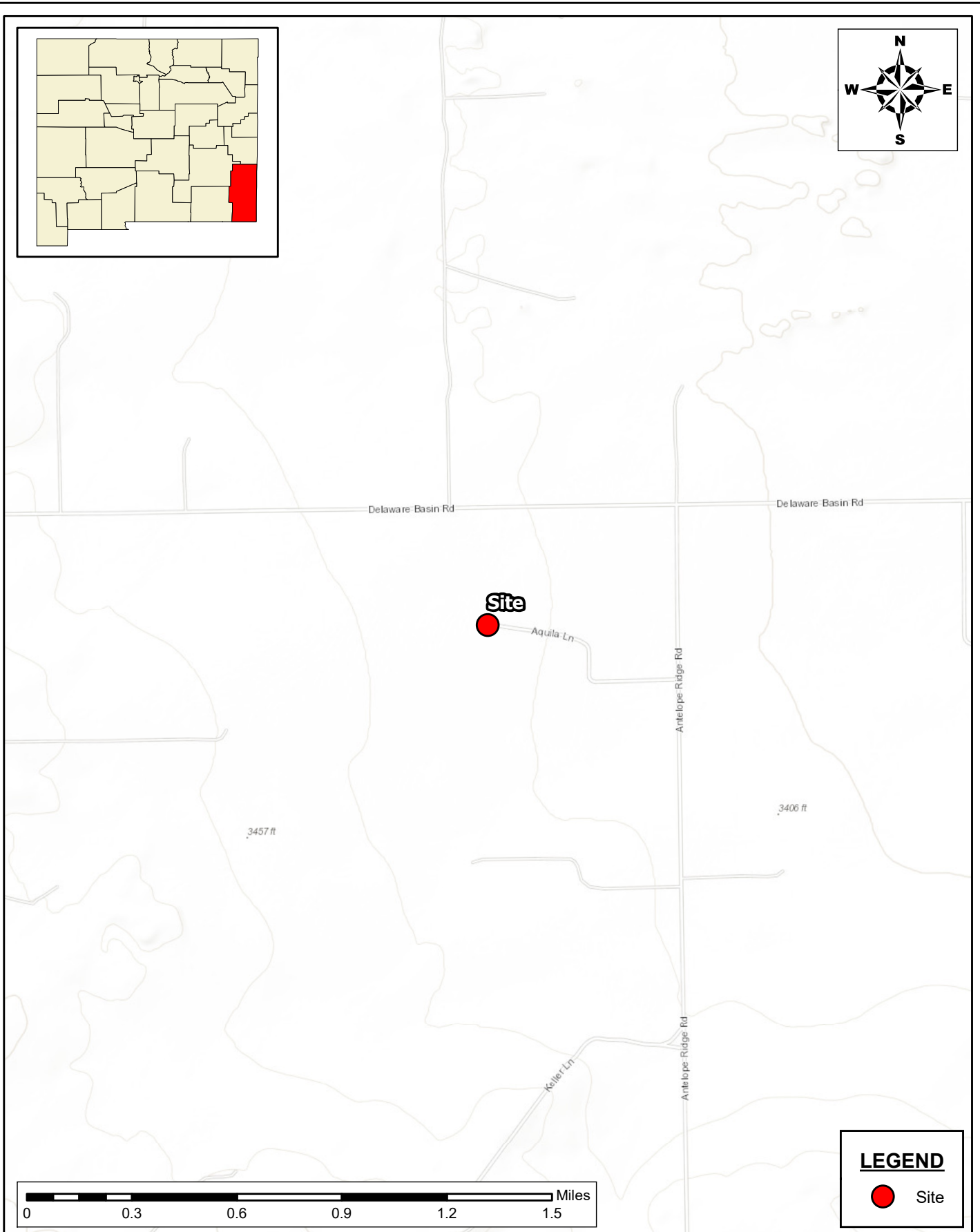
DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**

Document Path: P:\2022 PROJECTS\DEVON\RSO\225690 - Caballo 9 State 1 SWD\7- Figures\GIS\Figure\_2\_SL.mxd



**SITE LOCATION MAP**  
**SITE ASSESSMENT REPORT**  
CABALLO 9 STATE 1 SWD  
DEVON Energy Production Co.  
LEA COUNTY, NEW MEXICO

SCALE: As Shown    Date: 7/1/2022    PROJECT #: 225690



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T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

**1 of 1**

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**SITE LOCATION MAP  
SITE ASSESSMENT REPORT  
CABALLO 9 STATE 1 SWD  
DEVON Energy Production Co.  
LEA COUNTY, NEW MEXICO**

SCALE: As Shown    Date: 7/1/2022    PROJECT #: 225690



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911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

**DRAWING NUMBER:**

**FIGURE 3**

**SHEET NUMBER:**

**1 of 1**

## **PHOTOGRAPHIC LOG**

---

# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Photograph No. 1

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of signage.

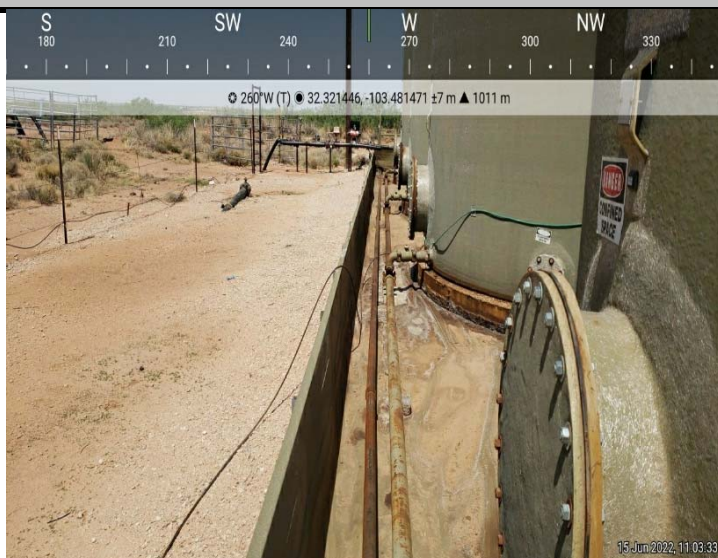


### Photograph No. 2

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.

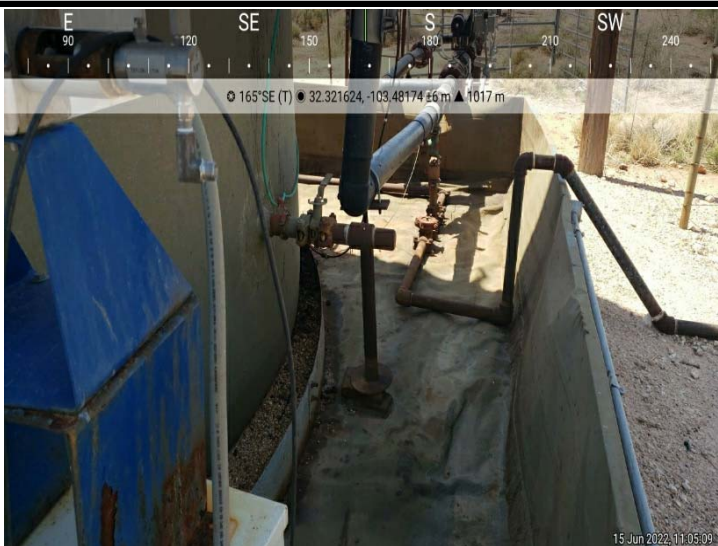


### Photograph No. 3

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.



# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Photograph No. 4

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.

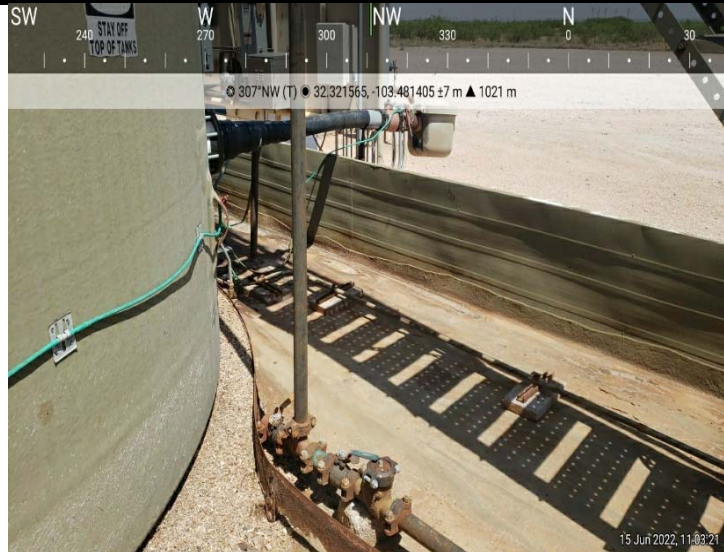


### Photograph No. 5

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.

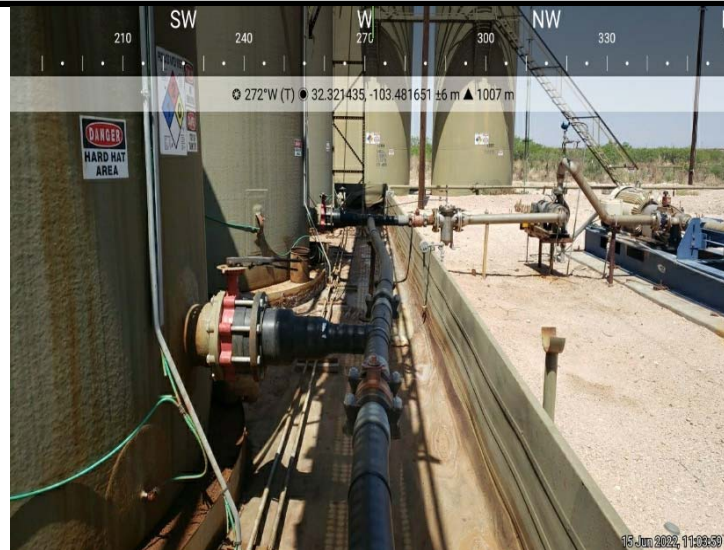


### Photograph No. 6

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.



# PHOTOGRAPHIC LOG

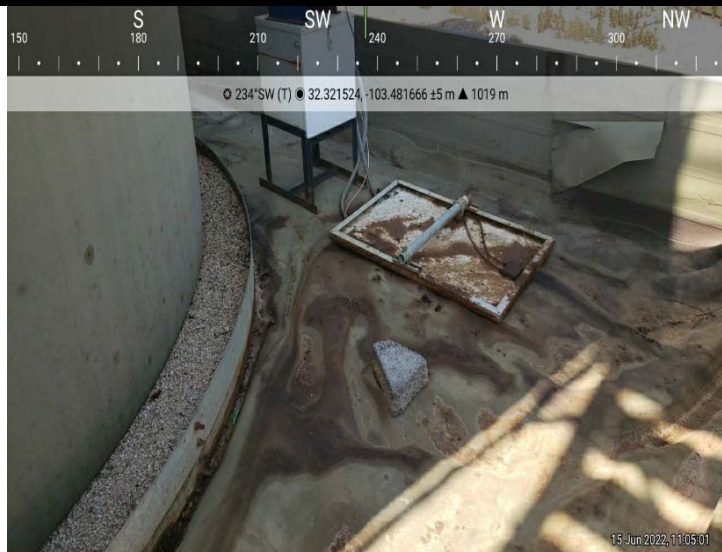
## Devon Energy Production Company

**Photograph No. 7**

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

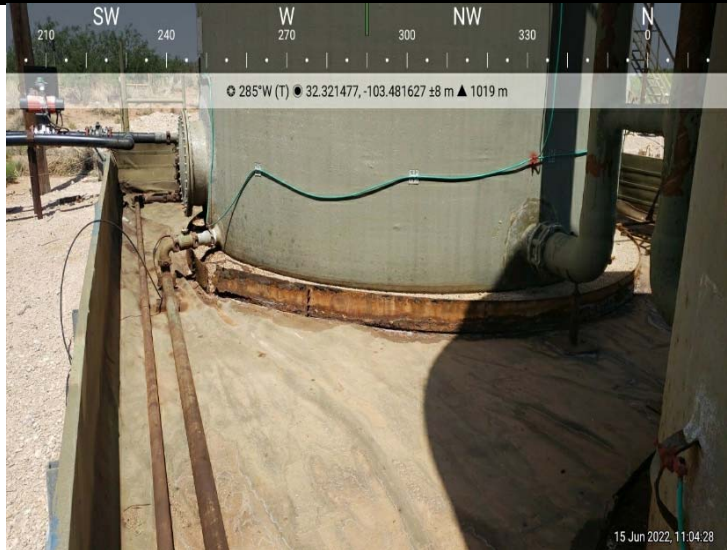
**Description:**  
View of liner.

**Photograph No. 8**

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.

**Photograph No. 9**

**Facility:** Caballo 9 State 1 SWD

**County:** Lea County, New Mexico

**Description:**  
View of liner.



## **NMOCD 48-HOUR ADVANCE NOTIFICATION**

**Ethan Sessums**

---

**From:** Ethan Sessums  
**Sent:** Monday, June 13, 2022 1:57 PM  
**To:** ocd.enviro@state.nm.us  
**Subject:** FW: Rescheduled Liner Inspection Notification

---

**From:** Ethan Sessums  
**Sent:** Friday, June 3, 2022 1:38 PM  
**To:** ocd.enviro@state.nm.us  
**Subject:** Rescheduled Liner Inspection Notification

Due to the recent rain event, we will be conducting a liner inspection which was rescheduled on behalf of DEVON on 6/15/2022 for the following incidents;

nAPP2213625034	Mean Green 23 CTB 2
nAPP2213648339	Caballo 9 State 1 SWD

**We will be at the Caballo at around 10 a.m. MDT and at the Mean Green around 1 p.m. MDT**

Ethan Sessums  
Environmental Scientist  
NTG Environmental New Mexico  
402 E Wood Ave, Carlsbad, NM 88220  
M: 254-266-5456 W: 432-701-2159  
Email: [esessums@ntglobal.com](mailto:esessums@ntglobal.com)  
<http://www.ntgenvironmental.com/>



**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 151792

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 151792
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved.	11/16/2022