State of New Mexico
Oil Conservation Division

Incident ID	NAPP2220230521
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?	225' (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	NAPP2220230521
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/5/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 12/05/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2220230521
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/5/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 12/05/2022

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: _____

SITE CHARACTERIZATION DOCUMENTATION

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

September 14, 2022

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

Re: Closure Report
Thistle Unit 22 CTB 2
Devon Energy Production Company
Site Location: Unit A, S22-T23S-R33E
(Lat 32.295136, Long -103.554495)
Lea County, New Mexico
Incident ID: NAPP2220230521

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 at the Thistle Unit 22 CTB 2 (Site) location. The Site is located in Lea County approximately 24 miles northeast of Jal, New Mexico (Figures 1 and 2).

Background

Based on the Release Notification Form C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 5, 2022. The release was the result of equipment failure. The release occurred within the tank battery and all released fluids were contained within the lined secondary containment. The leak resulted in the release of approximately 4.2 barrels (bbls) and 6.3 barrels (bbls) of produced water. All released fluids were recovered. The Release Notification Form C-141 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 (NMOSE) and United States Geological Survey (USGS) databases, there are no water wells within a half mile radius of the Site. The closest water well was drilled in 1940 and is located approximately 1.51 miles southeast of the Site in Section 25, T23S, R33E. The well has a reported depth to groundwater of 225 feet below ground surface (ft bgs).

Review of USGS topographic map (Figure 2) and National Flood Hazard Layer (NFHL) data identified no significant watercourse within a half mile of the Site.

A copy of the site characterization documentation and the associated NMOSE Point of Diversion Summary for the nearest water well is attached.

Regulatory Criteria

In accordance with Table I Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12), the following Closure 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 August 4, 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. 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 finding of the liner inspection, no further actions are required at the Site. The Site Assessment/Characterization and Closure portions of Form C-141 are 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:

Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141
Site Characterization Information
Figures
Photographic Log
NMOCD 48-Hour Advance Notification

FORM 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

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 Ruiz Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	59
Width(Ft)	48
Depth(in.)	0.027
Total Capacity without tank displacements (bbls)	10.51
No. of 500 bbl Tanks In Standing Fluid	6
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	10.06

Incident ID	NAPP2220230521
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?	225' (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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2220230521
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/5/2022

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

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2220230521
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/5/2022

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

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: 01/04/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

SITE CHARACTERIZATION DOCUMENTATION

Devon Energy - Thistle Unit 22 CTB 2
Sec 22 T23S R33E Unit A
32.295136, -103.554495
Lea County, New Mexico

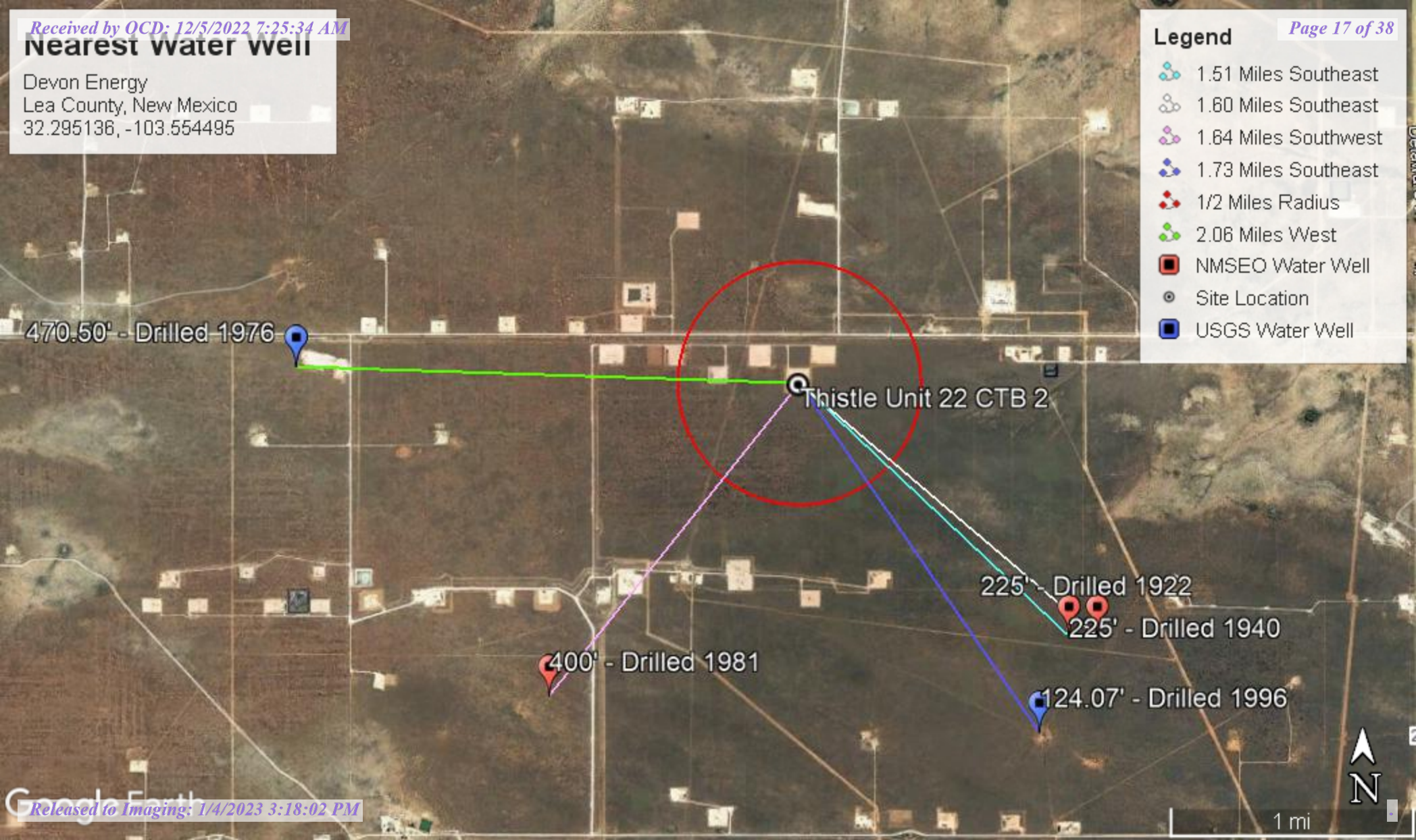
Site Characterization
-No water features within specified distances of 1/2 mile radius, drilled within 25 years
-Low Karst
-NMSEO Groundwater is 225' below surface, 1.51 miles Southeast of the site, 1940 Drilled, Section 25, T23S, R33E
-NMSEO Groundwater is 225' below surface, 1.60 miles Southeast of the site, 1922 Drilled, Section 26, T23S, R33E
-NMSEO Groundwater is 400' below surface, 1.64 miles Southwest of the site, 1981 Drilled, Section 28, T23S, R33E
-USGS Groundwater is 124.07' below surface, 1.73 miles Southeast of the site, 1996 Drilled, Section 26, T23S, R33E
-USGS Groundwater is 470.50' below surface, 2.06 miles West of the site, 1976 Drilled, Section 20, T23S, R33E

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
32.295136, -103.554495
Legend
LOW
Site Location
Thistle Unit 22 CTB 2
Google Earth
N
1 mi

Nearest Water Well

Devon Energy
Lea County, New Mexico
32.295136, -103.554495



New Mexico NFHL Data

August 25, 2022

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

FEMA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02283	4	2	2	26	23S	33E	637896	3572431*

Driller License:

Driller Company:

Driller Name: YANK BRININSTOOL

Drill Start Date:

Drill Finish Date: 12/31/1940

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 3 GPM

Casing Size: 6.50

Depth Well: 325 feet

Depth Water: 225 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02278	3	4	2	28	23S	33E	634484	3571989*

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

Driller License: **Driller Company:**
Driller Name: CORKY DRILLING

Drill Start Date: **Drill Finish Date:** 12/31/1981 **Plug Date:**
Log File Date: **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 40 GPM
Casing Size: 8.63 **Depth Well:** 650 feet **Depth Water:** 400 feet

Meter Number: 517 **Meter Make:** MASTER METER
Meter Serial Number: 1527873 **Meter Multiplier:** 10.0000
Number of Dials: 6 **Meter Type:** Diversion
Unit of Measure: Gallons **Return Flow Percent:**
Usage Multiplier: **Reading Frequency:** Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
02/27/1999	1999	558829	A	ms		0	
04/15/1999	1999	584199	A	ms		0.779	
07/18/1999	1999	618732	A	ms		1.060	
11/28/1999	1999	659075	A	ms		1.238	
04/06/2000	2000	701362	A	mb		1.298	
08/16/2000	2000	749815	A	mb		1.487	
09/15/2000	2000	764793	A	RPT		0.460	
01/19/2001	2000	832229	A	RPT		2.070	
04/27/2001	2001	832460	A	RPT		0.007	
07/16/2001	2001	858898	A	ms		0.811	
01/12/2002	2002	901165	A	tg		1.297	
04/13/2002	2002	922871	A	RPT		0.666	
07/12/2002	2002	943358	A	rm		0.629	
01/01/2003	2002	999646	A	RPT		1.727	
04/23/2003	2003	28600	R	RPT	Meter Rollover	0.889	
07/11/2003	2003	52310	A	RPT		0.728	
10/01/2003	2003	81022	A	ab		0.881	
01/08/2004	2003	117668	A	ab		1.125	
04/07/2004	2004	124973	A	RPT		0.224	
07/15/2004	2004	124973	A	RPT		0	
10/12/2004	2004	124973	A	RPT		0	
01/26/2005	2004	124973	A	RPT		0	
04/15/2005	2005	124973	A	RPT		0	
08/03/2005	2005	124973	A	RPT		0	
10/31/2005	2005	124973	A	RPT		0	
01/31/2006	2005	124973	A	RPT		0	
04/20/2006	2006	124973	A	RPT		0	
11/27/2006	2006	260950	A	RPT		4.173	
04/16/2007	2007	53370	R	RPT	Meter Rollover	24.318	
07/13/2007	2007	70455	A	RPT		0.524	
11/03/2007	2007	87075	A	RPT		0.510	
04/15/2008	2008	103778	A	RPT		0.513	
07/11/2008	2008	115358	A	RPT		0.355	
01/08/2009	2009	140969	A	RPT		0.786	
05/07/2009	2009	166001	A	RPT		0.768	
07/06/2009	2009	175108	A	RPT		0.279	
11/12/2009	2009	200161	A	RPT		0.769	
05/13/2010	2010	227718	A	RPT		0.846	
08/23/2010	2010	751300	A	RPT		16.068	
11/09/2010	2010	779099	A	RPT		0.853	
02/13/2011	2011	297755	R	RPT	Meter Rollover	15.917	
07/12/2011	2011	362839	A	RPT		1.997	
01/10/2012	2012	425404	A	RPT		1.920	
04/15/2012	2012	439919	A	RPT		0.445	
03/20/2013	2012	473914	A	RPT		1.043	
07/18/2013	2013	483804	A	RPT		0.304	
07/22/2019	2019	698624	A	RPT		6.593	
04/01/2020	2020	922700	A	RPT		6.877	

**YTD Meter Amounts:	Year	Amount
	1999	3.077
	2000	5.315
	2001	0.818
	2002	4.319
	2003	3.623
	2004	0.224
	2005	0
	2006	4.173
	2007	25.352
	2008	0.868
	2009	2.602
	2010	17.767
	2011	17.914
	2012	3.408
	2013	0.304
	2019	6.593
	2020	6.877

x

***UTM location was derived from PLSS - see Help**

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-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03582 POD1	C	LE	4	1	1	14	23S	33E	636583	3575666	1669	590		
C 02283	CUB	LE	4	2	2	26	23S	33E	637896	3572431*	2427	325	225	100
C 02282	CUB	LE	3	1	1	25	23S	33E	638098	3572436*	2577	325	225	100
C 02278	CUB	LE	3	4	2	28	23S	33E	634484	3571989*	2634	650	400	250
C 02280	CUB	LE	3	2	4	28	23S	33E	634489	3571586*	2960	650	400	250

Average Depth to Water: **312 feet**

Minimum Depth: **225 feet**

Maximum Depth: **400 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 636102.75 **Northing (Y):** 3574067.46 **Radius:** 3000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02282	3	1	1	25	23S	33E	638098	3572436*

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

Driller License: **Driller Company:**

Driller Name: CARL BRININSTOOL

Drill Start Date: **Drill Finish Date:** 12/31/1922 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 3 GPM

Casing Size: 6.50 **Depth Well:** 325 feet **Depth Water:** 225 feet

***UTM location was derived from PLSS - see Help**

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.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- 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 =
- 321611103321601

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

USGS 321611103321601 23S.33E.26.42100

Lea County, New Mexico
Latitude 32°16'28.0", Longitude 103°32'15.6" NAD83
Land-surface elevation 3,641 feet above NAVD88
The depth of the well is 190 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

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
1972-09-21		D	62610		3455.30	NGVD29	P	Z			A
1972-09-21		D	62611		3457.00	NAVD88	P	Z			A
1972-09-21		D	72019	184.00			P	Z			A
1981-03-27		D	62610		3465.38	NGVD29	P	Z			A
1981-03-27		D	62611		3467.08	NAVD88	P	Z			A
1981-03-27		D	72019	173.92			P	Z			A
1986-04-16		D	62610		3512.78	NGVD29	1	Z			A
1986-04-16		D	62611		3514.48	NAVD88	1	Z			A
1986-04-16		D	72019	126.52			1	Z			A
1991-05-24		D	62610		3514.74	NGVD29	1	Z			A
1991-05-24		D	62611		3516.44	NAVD88	1	Z			A
1991-05-24		D	72019	124.56			1	Z			A
1996-03-13		D	62610		3515.23	NGVD29	1	S			A
1996-03-13		D	62611		3516.93	NAVD88	1	S			A
1996-03-13		D	72019	124.07			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

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
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.

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
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: 2022-08-25 14:57:11 EDT
0.28 0.24 nadww01

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.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- 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 =
- 321746103352301

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

USGS 321746103352301 23S.33E.17.42331

Lea County, New Mexico
Latitude 32°17'46", Longitude 103°35'23" NAD27
Land-surface elevation 3,699 feet above NAVD88
The depth of the well is 550 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

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
1972-09-21		D	62610		3192.86	NGVD29	1	Z			A
1972-09-21		D	62611		3194.60	NAVD88	1	Z			A
1972-09-21		D	72019	504.40			1	Z			A
1976-12-08		D	62610		3226.76	NGVD29	1	Z			A
1976-12-08		D	62611		3228.50	NAVD88	1	Z			A
1976-12-08		D	72019	470.50			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
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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
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

Accessibility FOIA Privacy Policies and Notices

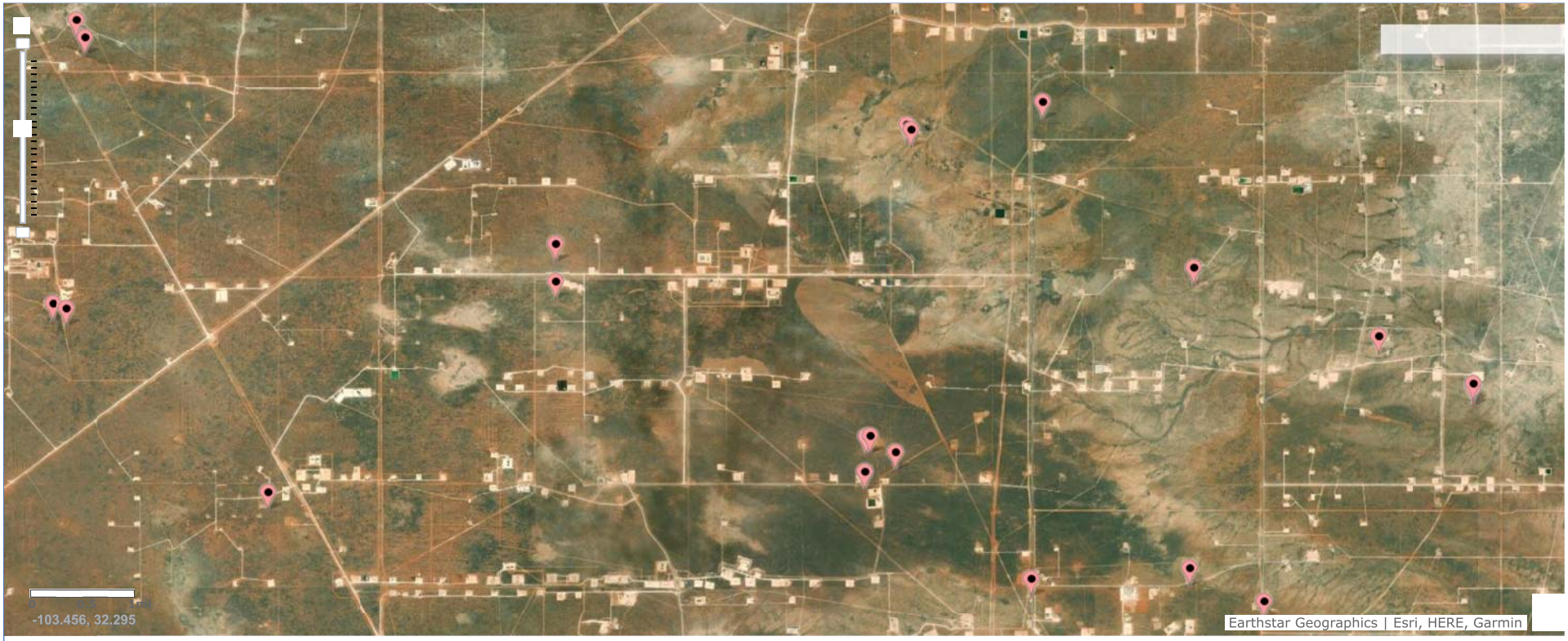
U.S. Department of the Interior | U.S. Geological Survey

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: 2022-08-25 15:05:33 EDT
0.28 0.25 nadww02

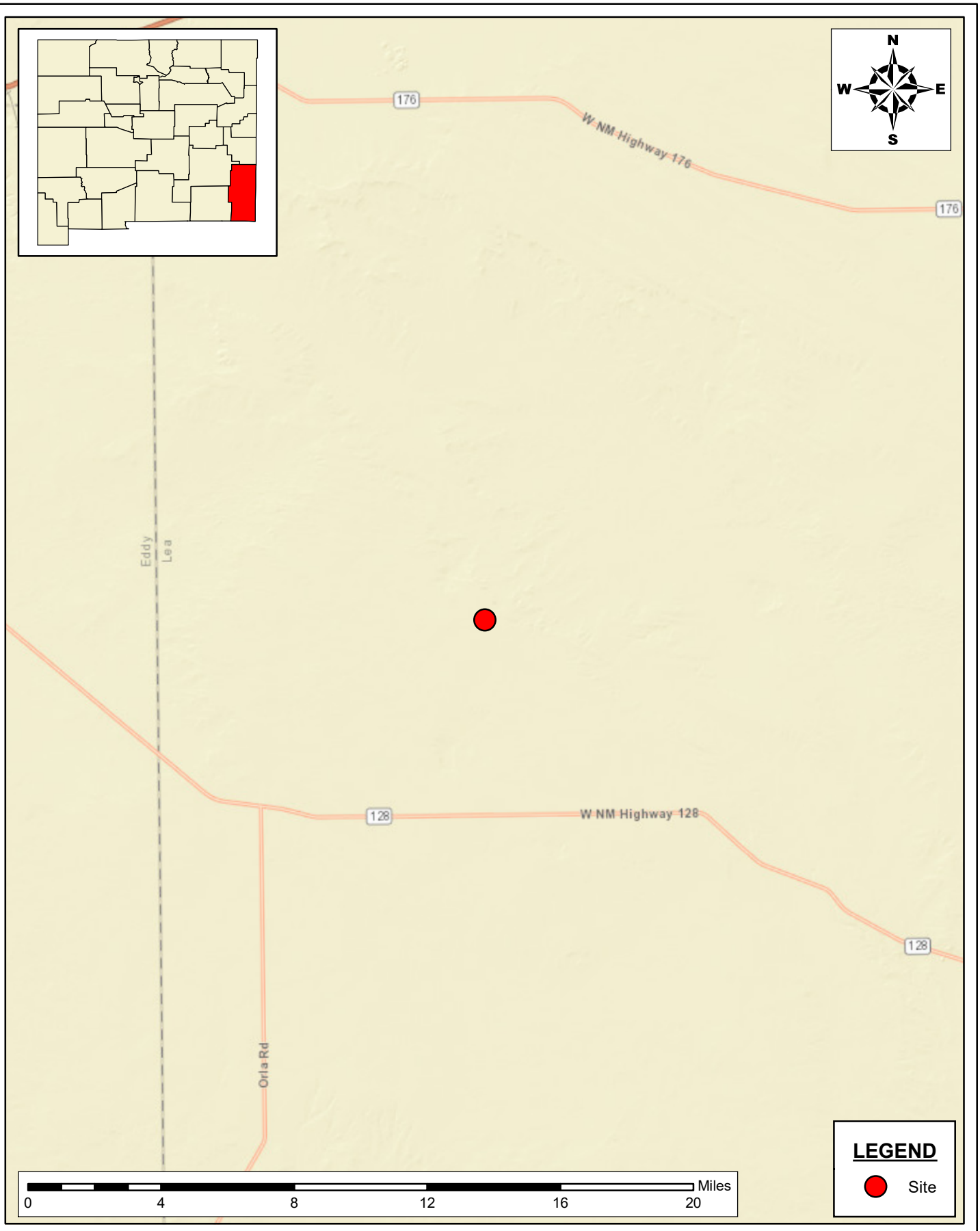
National Water Information System: Mapper

Help



Site Information

FIGURES



Document Path: P:\2022 PROJECTS\DEVON\RSC\226037 - Thistle 22 CTB 2\7- Figures\GIS\Figure_1_SL.mxd

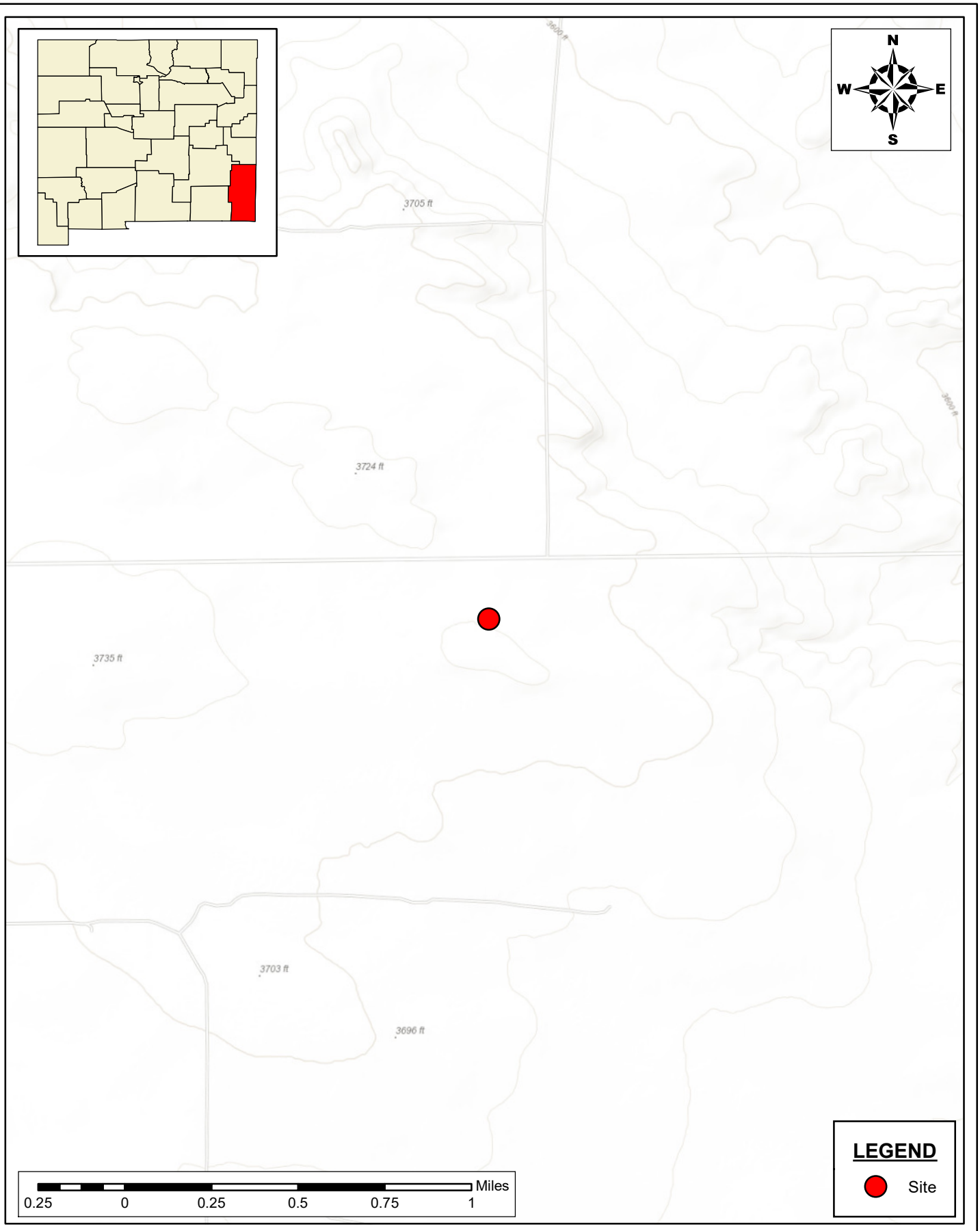
SITE LOCATION MAP
SITE ASSESSMENT REPORT
THISTLE 22 CTB 2
DEVON ENERGY PRODUCTION COMPANY. LLC
LEA COUNTY, NEW MEXICO

SCALE: As Shown	Date: 12/2/2022	PROJECT #: 226037

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

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

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



LEGEND

Site

Document Path: P:\2022 PROJECTS\DEVON\RSC\226037 - Thistle 22 CTB 2\7- Figures\GIS\Figure_2_SL.mxd

SITE LOCATION MAP
SITE ASSESSMENT REPORT
THISTLE 22 CTB 2
DEVON ENERGY PRODUCTION COMPANY. LLC
LEA COUNTY, NEW MEXICO

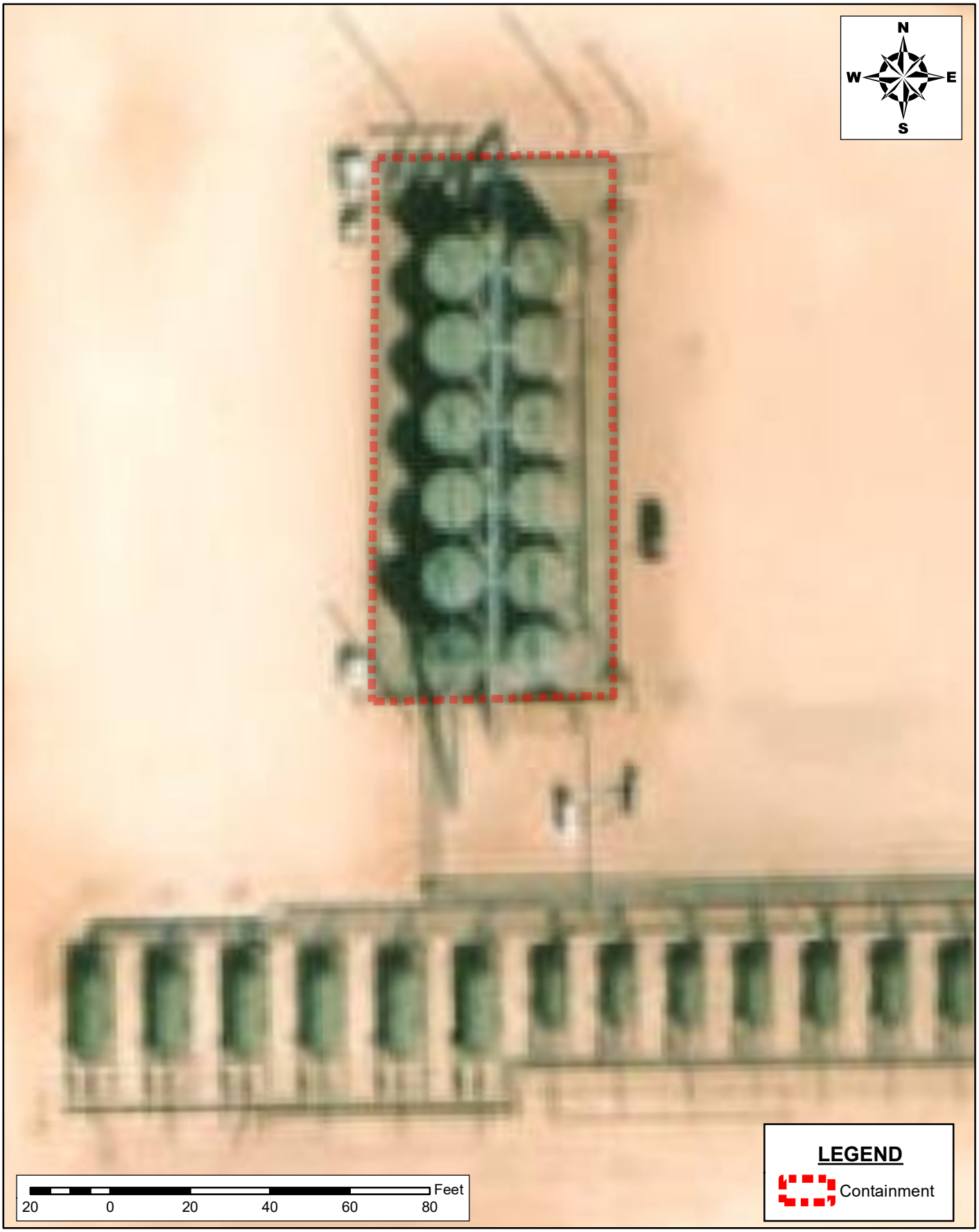
SCALE: As Shown	Date: 12/2/2022	PROJECT #: 226037

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

NOTES:

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

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



Document Path: P:\2022 PROJECTS\DEVON\RSC\226037 - Thistle 22 CTB 2\7- Figures\GIS\Figure_3_SA.mxd

SITE LOCATION MAP
SITE ASSESSMENT REPORT
THISTLE 22 CTB 2
DEVON ENERGY PRODUCTION COMPANY. LLC
LEA COUNTY, NEW MEXICO

SCALE: As Shown	Date: 12/2/2022	PROJECT #: 226037

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

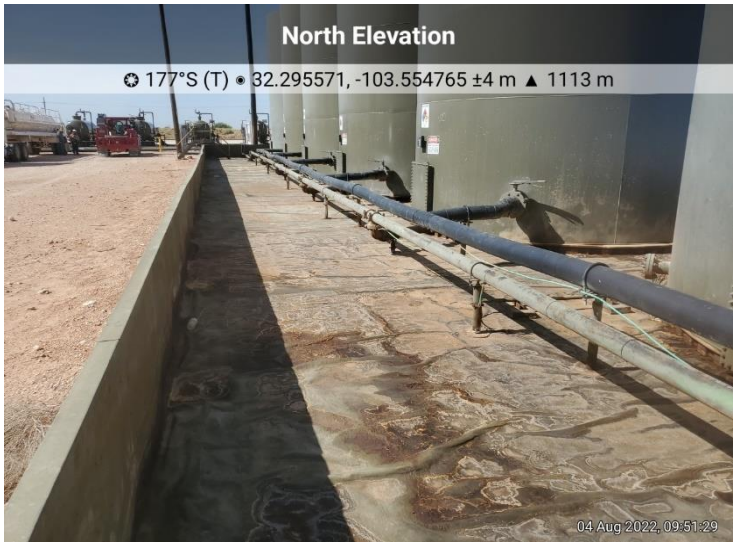
Devon Energy Production Company

Photograph No. 1

Facility: Thistle 22

County: Lea County, New Mexico

Description:
View of liner



Photograph No. 2

Facility: Thistle 22

County: Lea County, New Mexico

Description:
View of liner

Photograph No. 3

Facility: Thistle 22

County: Lea County, New Mexico

Description:
View of liner

PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 4

Facility: Thistle 22

County: Lea County, New Mexico

Description:
View of liner

Photograph No. 5

Facility: Thistle 22

County: Lea County, New Mexico

Description:
View of liner

Photograph No. 6

Facility: Thistle 22

County: Lea County, New Mexico

Description:
View of liner

NMOCD 48-HOUR ADVANCE NOTIFICATION

Ethan Sessums

From: Ethan Sessums
Sent: Monday, August 1, 2022 3:09 PM
To: ocd.enviro@state.nm.us
Cc: Jordan Tyner; Tyler Kimball
Subject: Liner Inspection Notification

We will be conducting liner inspection activities at the following sites on 8.4.2022 on behalf of DEVON at the following times;
10 a.m. MDT:

nAPP2218633840	Thistle 22 CTB 2	7/5/2022
nAPP2103332595	RIO BLANCO 4 CTB 1	1/19/2021

1 p.m. MDT:

nRM2027437922	NORTH PURE GOLD 9 FEDERAL #018H	9/17/2020

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
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

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 163607
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/4/2023