



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

March 28, 2022

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

**Re: Closure Report
West Shugart 29 Federal #003H
Devon Energy Production Company
Site Location: Unit M, S29, T18S, R31E
(Lat 32.7139549°, Long -103.8970413°)
Eddy County, New Mexico
Incident ID: NAPP2201436236**

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment and remedial action activities at the West Shugart 29 Federal #003h (Site). The Site is located approximately 9 miles Southeast of Loco Hills, New Mexico in Eddy County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 4, 2022. The release was a result of a hammer union failure at the wellhead. The failure resulted in the release of approximately 10.59 barrels (bbls) of crude oil of which 10 bbls were recovered. Upon discovery, the well was shut-in and area was secured. The release is shown on Figure 3. 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 are no known water sources within a ½ mile radius of the location. The nearest identified well is located 2.31 miles west of the Site in S26, T18S, R30E. The well was drilled in 1968 and the reported depth to groundwater is 204.36 feet below ground surface (ft bgs). A site characterization information and the associated USGS summary report is attached.

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: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg

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Site Assessment

On January 27, 2022, NTGE conducted site assessment activities to assess the horizontal and vertical extent of impacts at the Site. A total of 3 sample points (S-1 through S-3) were installed within the release area to characterize the impacts. Additionally, 4 horizontal delineation sample points (H-1 through H-4) were installed to define the extent of impacts. Soil samples were in 0.5 to 1 ft depth intervals and collected from depths ranging from 0 – 3.5 ft bgs with a geotechnical handauger. The handauger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination. Sample locations are shown on Figure 3.

Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for chemical analysis. Soil samples were analyzed collected and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Analytical results identified elevated TPH and/or chloride concentrations across the release area (S1 – S4). Soil impacts were confined to the upper 2.5 ft bgs in S-1 and 1.5 ft bgs in S-3. Impacts identified in S-3 extended the total depth (i.e., 3.5 ft bgs) of the boring. Analytical results from the horizontal delineation sample points H-1 through H-4 were below the regulatory limit for all analytes.

Remedial Action Activities and Confirmation Sampling

Based on the analytical results, Devon proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to the depths detailed below and illustrated on Figure 4.

- The area of S-1 was excavated to a depth of 3 ft bgs
- The area of S-2 was excavated to a depth of 4 ft bgs
- The area of S-3 was excavated to a depth of 2 ft bgs

The soils were field screened during excavation activities to aide in determining final excavation depths, primarily in the areas of S-2, where the vertical delineation of impacts was not achieved during site assessment activities. A total of 20 confirmation samples were collected from the excavation base (CS-1 - CS-11) and 9 confirmation samples were collected from the excavation sidewalls (SW-1 - SW-9) were collected from the excavation sidewalls to ensure impacted soil was removed.

The confirmation samples were collected every 200 square feet and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Following receipt of the analytical results, the excavation was backfilled and returned to near-natural grade. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2.

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Closing

Based on the assessment and subsequent remedial action activities, the Site is in compliance with the regulatory limits and no further actions are required at the site. A copy of the final C- 141 is attached and Devon formally request a no further action designation for the Site. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Jr. Project Manager

Attachments:

Initial And Final C-141
Site Characterization Information
Tables
Figures
Photographic Log
Laboratory Reports and Chain-of-Custody Documents

Ethan Sessums

From: Ethan Sessums
Sent: Wednesday, March 2, 2022 2:09 PM
To: ocd.enviro@state.nm.us
Subject: Sampling Event Notification

Good afternoon,

We will be conducting confirmation sampling at the below-referenced site on 3/4/2022 around 1:00 p.m. Mountain time on behalf of Devon. If there are any questions or concerns, please feel free to reach out.

Site:
Devon – West Shugart 29 Federal #003H
M-S29-T18S-R31E
32.7139549, -103.8970413
Eddy County, New Mexico

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/>



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

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)

<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	
District RP	
Facility ID	
Application ID	

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>01/19/2022</u>

NAPP2201436236

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>877.909</u>	<u>0.750</u>
Cubic Feet of Soil Impacted	<u>54.869</u>
Barrels of Soil Impacted	<u>9.78</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.47</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>1.47</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>877.909</u>	<u>0.700</u> +
Standing fluid	<u>9.129</u>
Total fluids spilled	<u>10.596</u>

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 73313

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 73313
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/19/2022

Incident ID	nAPP2201436236
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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?	<u>204.36'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas 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

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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: Wesley Mathews Title: EHS Professional
Signature: *Wesley Mathews* Date: 06/30/2022
email: Wesley.Mathews@dnv.com Telephone: 575-578-6195

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2201436236
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Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Wesley Mathews Title: EHS Professional
Signature: Wesley Mathews Date: 06/30/2022
email: Wesley.Mathews@dvn.com Telephone: 575-578-6195

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	nAPP2201436236
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: Wesley Mathews Title: EHS Professional
Signature: *Wesley Mathews* Date: 06/30/2022
email: Wesley.Mathews@dvn.com Telephone: 575-578-6195

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: 08/19/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

SITE CHARACTERIZATION INFORMATION



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
CP 00818 POD1	CP	LE		1	4	26	18S	30E		599289	3620364*	4086	240		
CP 00767 POD1	CP	ED		3	2	35	18S	30E		599300	3619158*	4178	500		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 603367.67

Northing (Y): 3620114.43

Radius: 4500

*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.

1/24/22 12:16 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Low Karst

Devon Energy

Legend

LOW

West Shugart 29 Federal #003H



N

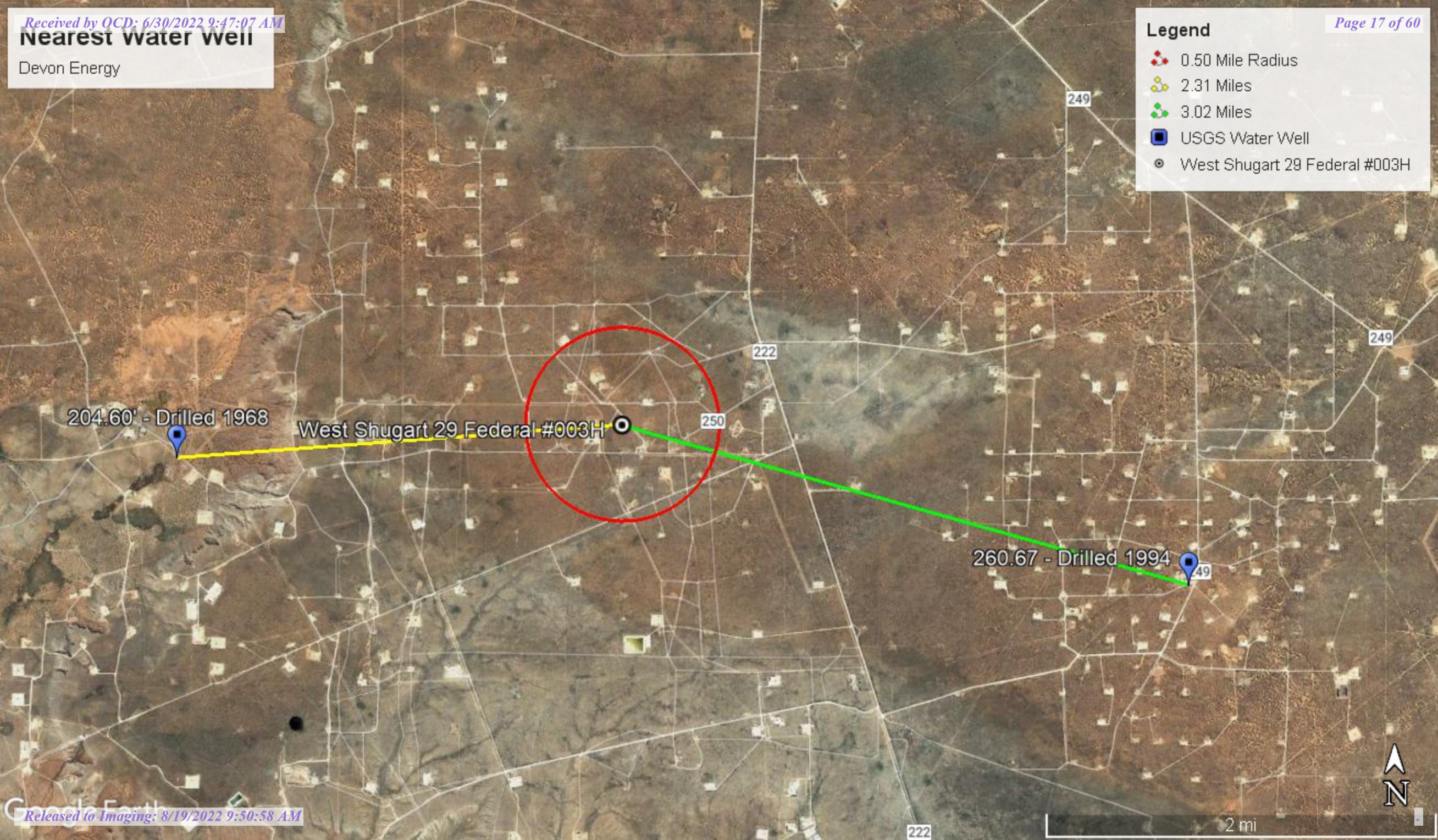
5000 ft

Nearest water well

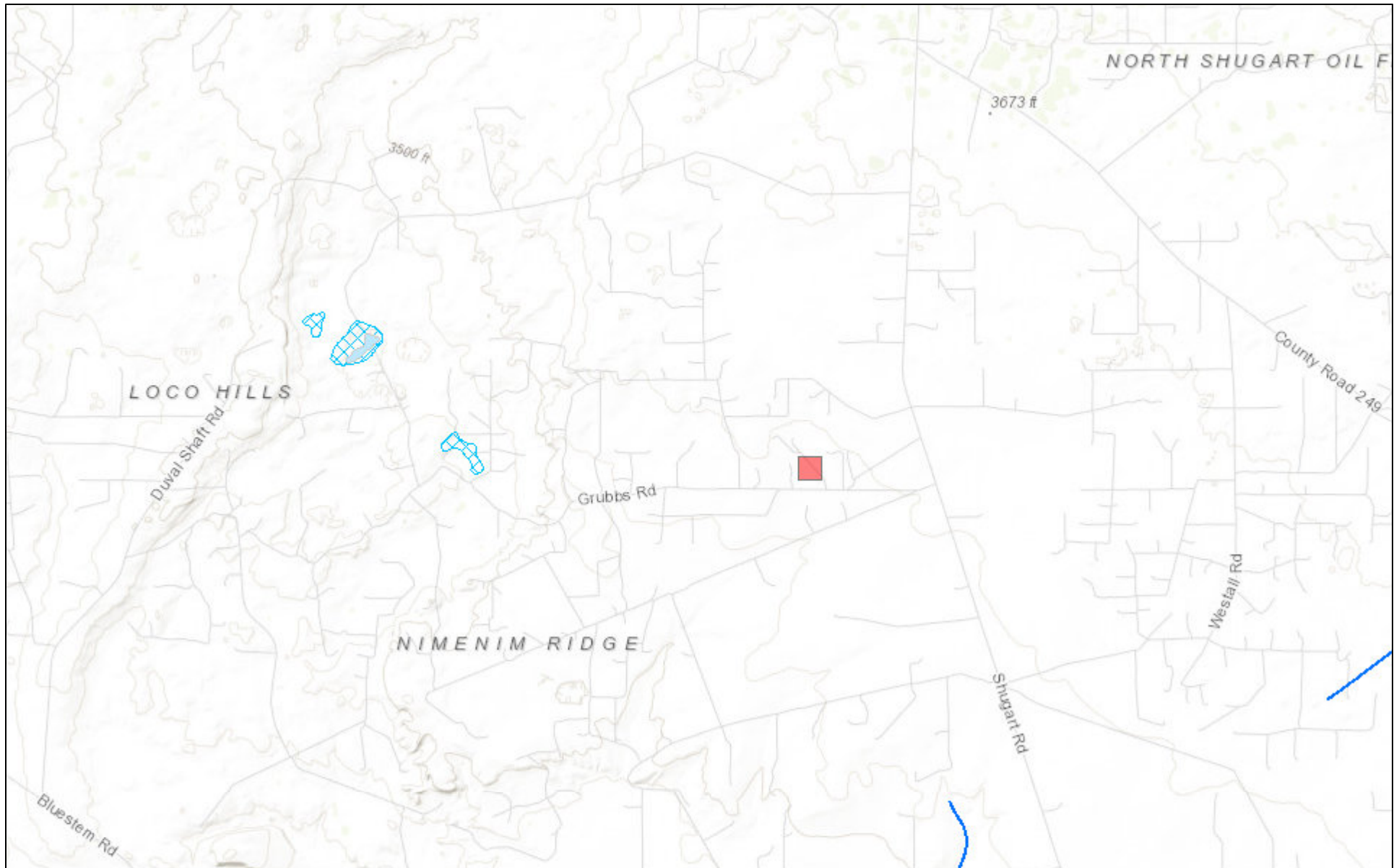
Devon Energy

Legend

- 0.50 Mile Radius
- 2.31 Miles
- 3.02 Miles
- USGS Water Well
- West Shugart 29 Federal #003H

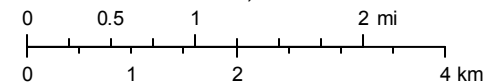


New Mexico NFHL Data



January 24, 2022

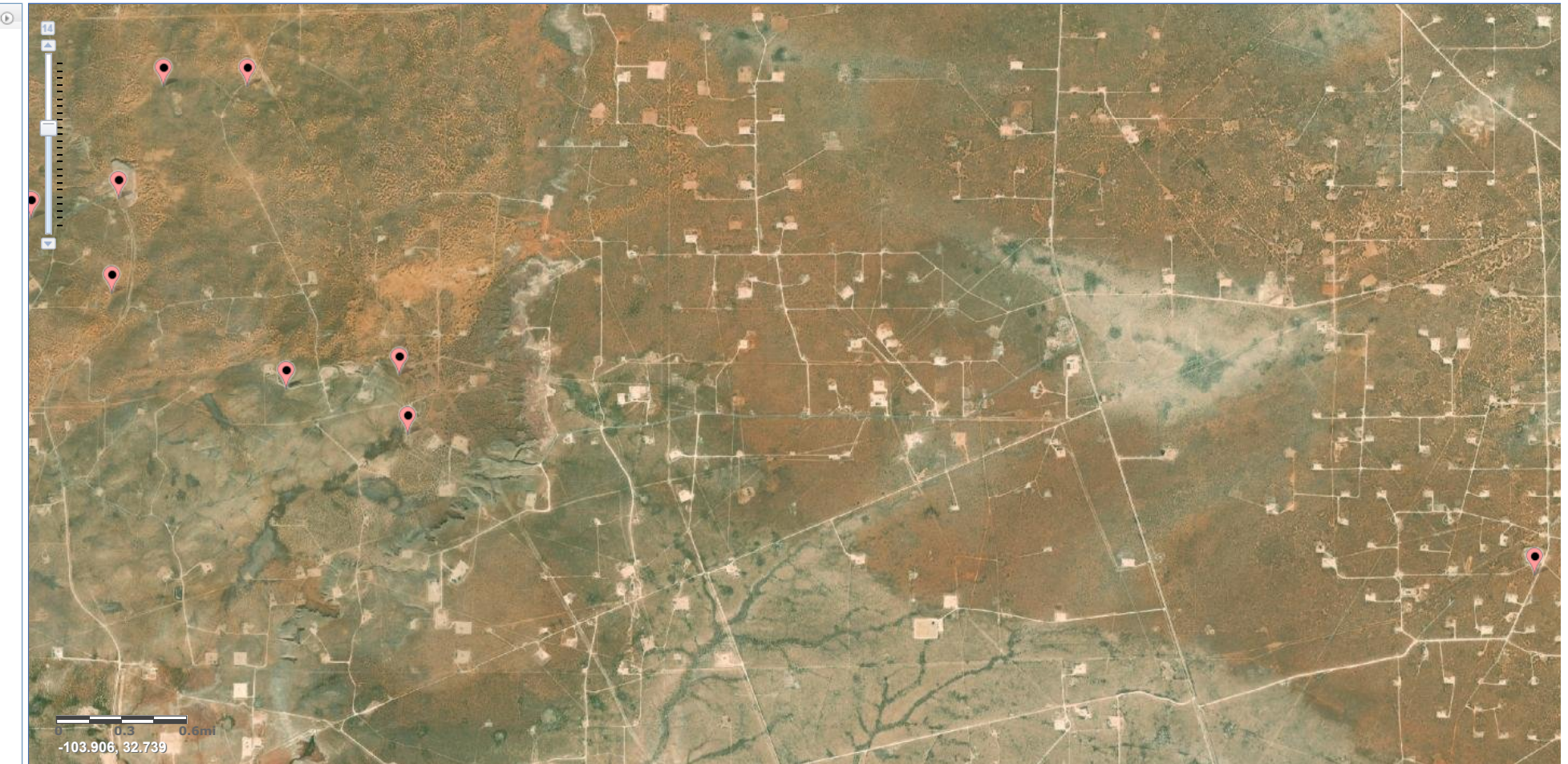
1:72,224



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



National Water Information System: Mapper



Site Information



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface[USGS Water Resources](#)


Data Category:
Groundwater

Geographic Area:
New Mexico

GO



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- [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 =

- 324241103561201

Minimum number of levels = 1

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

USGS 324241103561201 18S.30E.26.4140

Eddy County, New Mexico

Latitude 32°42'41", Longitude 103°56'12" NAD27

Land-surface elevation 3,432 feet above NAVD88

The depth of the well is 230 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 measur
1968-03-07		D	62610		3225.86	NGVD29	1	Z		
1968-03-07		D	62611		3227.40	NAVD88	1	Z		
1968-03-07		D	72019	204.60			1	Z		

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

Section	Code	Description
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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[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: 2022-01-24 16:06:48 EST

0.36 0.32 nadww02



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:


Groundwater

Geographic Area:

New Mexico

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- [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 =

- 324159103503801

Minimum number of levels = 1

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

USGS 324159103503801 18S.31E.35.31324

Eddy County, New Mexico

Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83

Land-surface elevation 3,630 feet above NAVD88

The depth of the well is 300 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 measur
1971-04-05			D 62610		3367.36	NGVD29	1	Z		
1971-04-05			D 62611		3368.92	NAVD88	1	Z		
1971-04-05			D 72019	261.08			1	Z		
1976-05-27			D 62610		3367.91	NGVD29	1	Z		
1976-05-27			D 62611		3369.47	NAVD88	1	Z		
1976-05-27			D 72019	260.53			1	Z		
1983-04-11			D 62610		3367.94	NGVD29	1	Z		
1983-04-11			D 62611		3369.50	NAVD88	1	Z		
1983-04-11			D 72019	260.50			1	Z		
1987-01-26			D 62610		3367.44	NGVD29	1	S		
1987-01-26			D 62611		3369.00	NAVD88	1	S		
1987-01-26			D 72019	261.00			1	S		
1994-03-17			D 62610		3367.77	NGVD29	1	S		
1994-03-17			D 62611		3369.33	NAVD88	1	S		

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 measur ▾
1994-03-17		D	72019	260.67			1	S		

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	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: 2022-01-24 16:03:18 EST

0.35 0.31 nadww02

TABLES

Table 1
Devon Energy
West Shugart 29 Federal #003H
Eddy County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			DRO	GRO	MRO	Total						
CS-1	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
CS-2	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-3	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-4	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-4	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-6	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-7	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128.0
CS-8	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
CS-9	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-10	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-11	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128.0
SW-1	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-2	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-3	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-7	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-8	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-9	3/4/2022	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Regulatory Limits						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

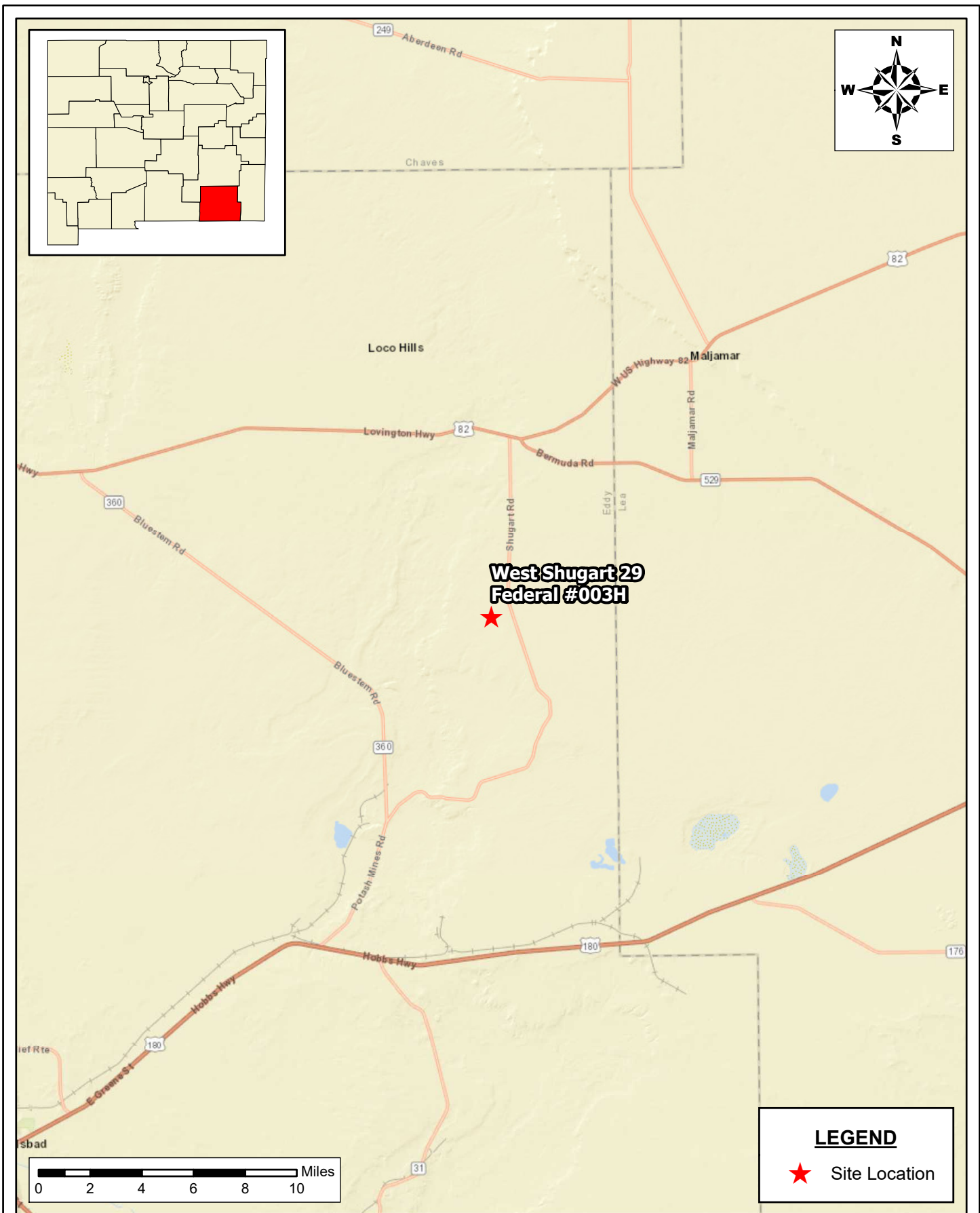
TPH- total petroleum hydrocarbons

ft-feet

 - exceeds regulatory limits

FIGURES

Document Path: P:\2022 PROJECTS\DEVON\225189 - West Shugart 29 Federal #003H\7 - Figures\GIS\Geodatabase\Figure_1_SLM\Map_02022022.mxd



SITE LOCATION MAP
DEVON ENERGY
 WEST SHUGART 29 FEDERAL #003H
 EDDY COUNTY, NEW MEXICO
 32.7139549, -103.8970413

SCALE: As Shown

Date: 2/2/2022

PROJECT #: 225189



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 UTM Zone 13N

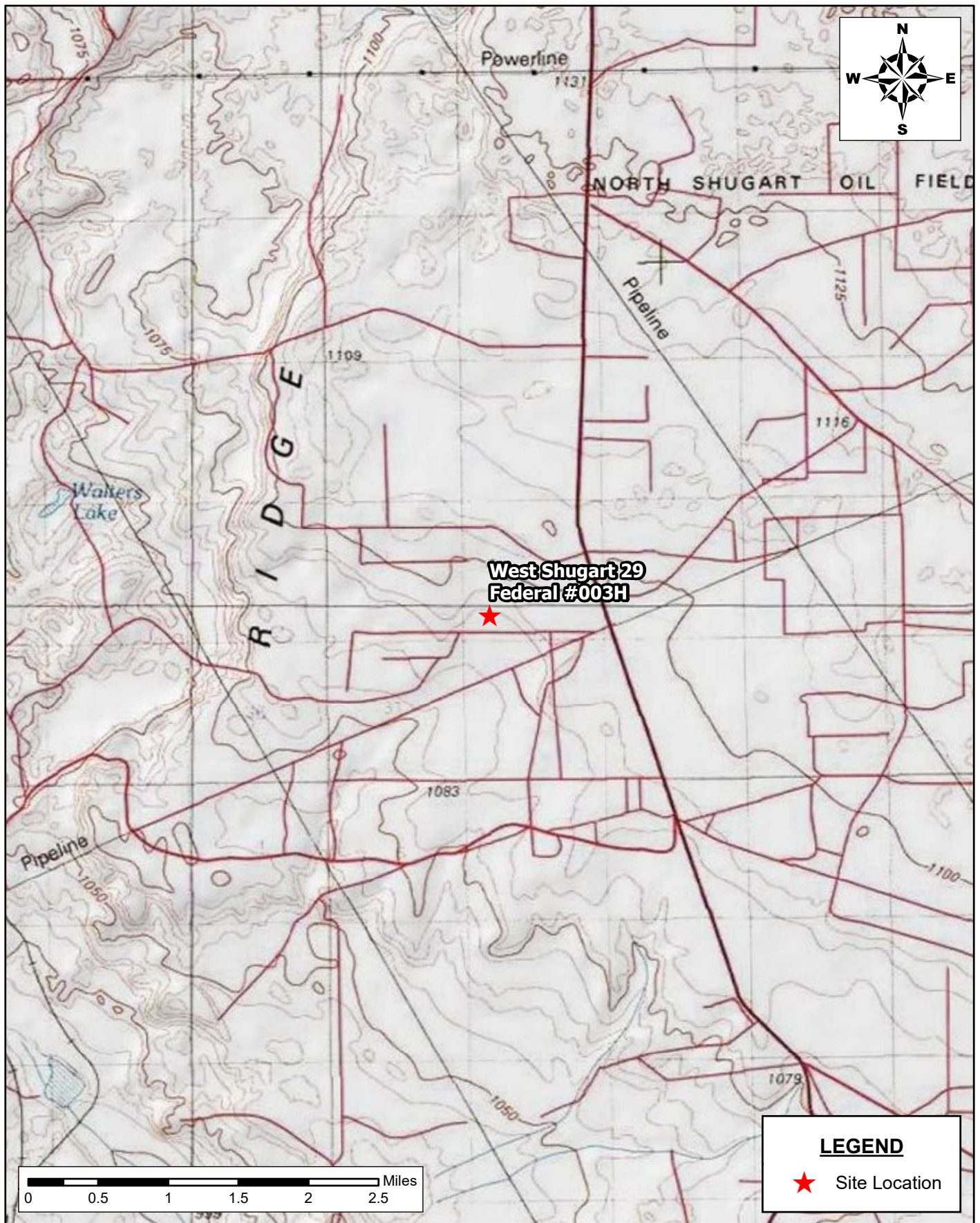
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FIGURE 1

SHEET NUMBER:

1 of 1

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AREA MAP
DEVON ENERGY
 WEST SHUGART 29 FEDERAL #003H
 EDDY COUNTY, NEW MEXICO
 32.7139549, -103.8970413

SCALE: As Shown

Date: 2/2/2022

PROJECT #: 225189



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

NOTES:

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

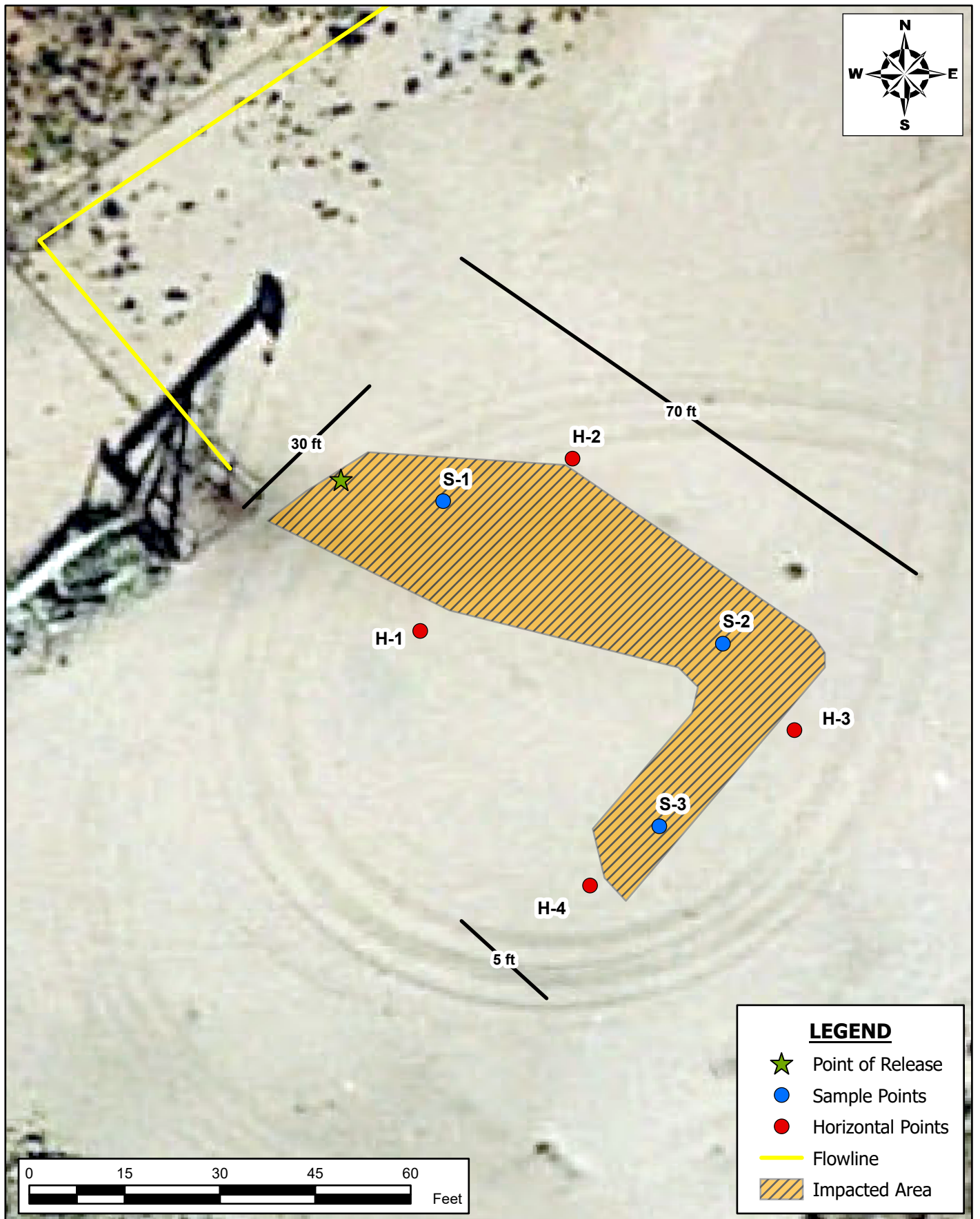
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FIGURE 2

SHEET NUMBER:

1 of 1

Document Path: P:\2022 PROJECTS\DEVON\225189 - West Shugart 29 Federal #003H17 - Figures\GIS\Geodatabase\Shugart Figure_3.aprx



SAMPLE LOCATION MAP
DEVON ENERGY
 WEST SHUGART 29 FEDERAL #003H
 EDDY COUNTY, NEW MEXICO
 32.7139549, -103.8970413

SCALE: As Shown

Date: 2/3/2022

PROJECT #: 225189



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 UTM Zone 13N

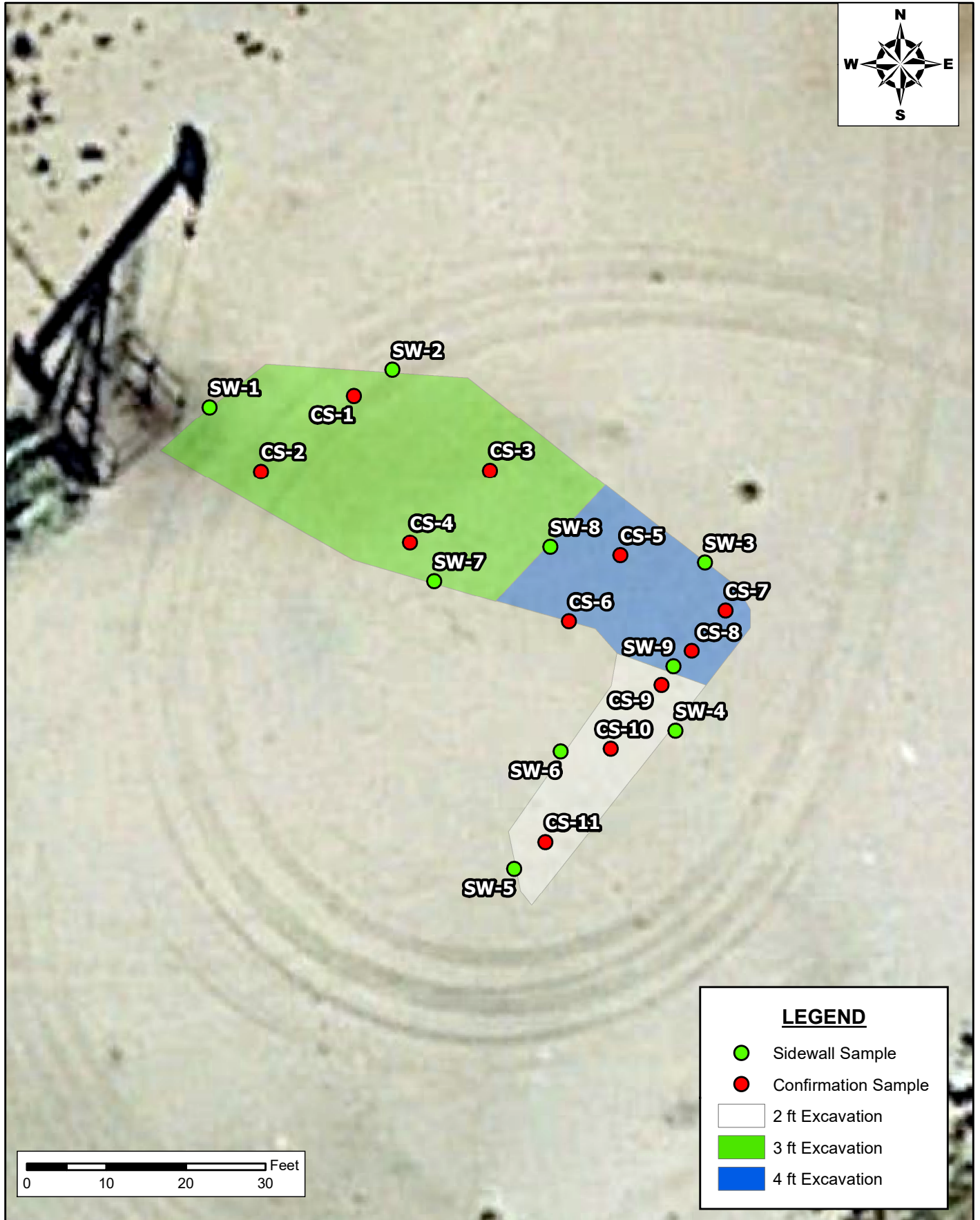
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FIGURE 3

SHEET NUMBER:

1 of 1

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EXCAVATION MAP DEVON ENERGY WEST SHUGART 29 FEDERAL #003H EDDY COUNTY, NEW MEXICO 32.7139549, -103.8970413			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 UTM Zone 13N	DRAWING NUMBER: FIGURE 4 SHEET NUMBER: 1 of 1
SCALE: As Shown	Date: 3/25/2022	PROJECT #: 225189				

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

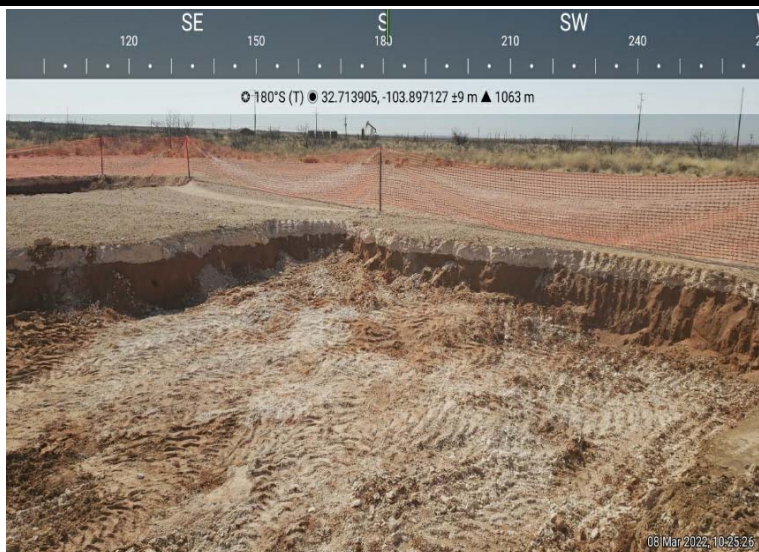
Devon Energy Production Company

Photograph No. 1

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

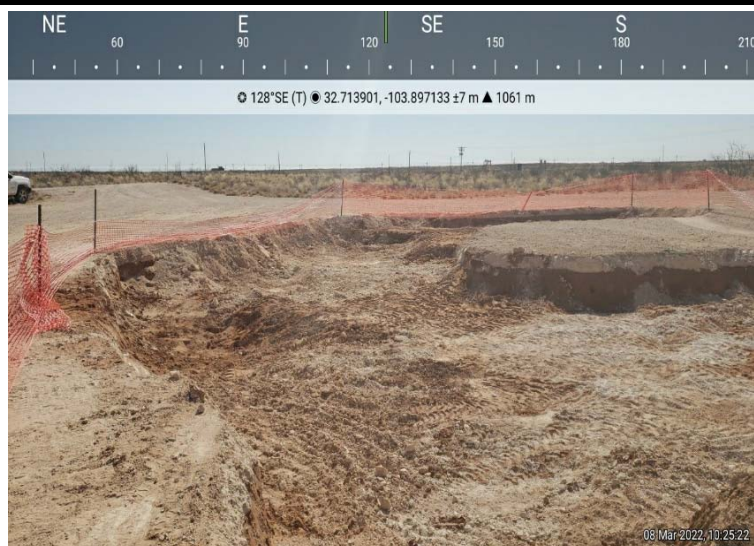
Description:
View of Excavtion

**Photograph No. 2**

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

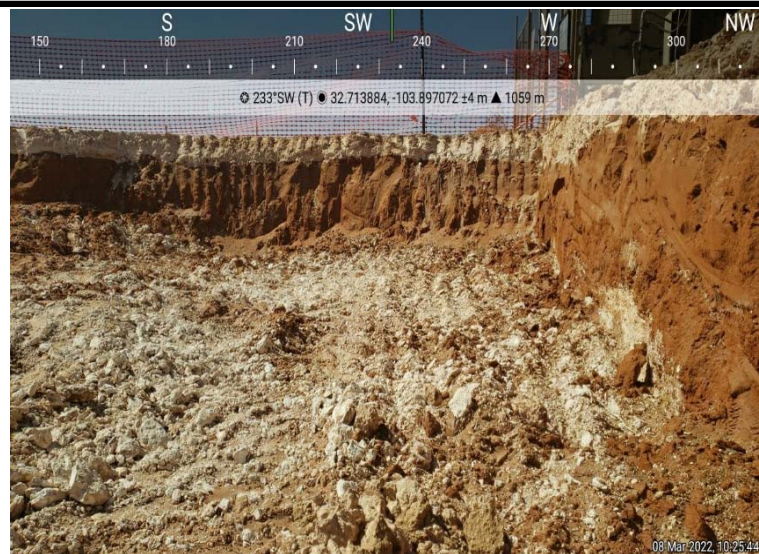
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View of Excavtion

**Photograph No. 3**

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

Description:
View of Excavtion



PHOTOGRAPHIC LOG

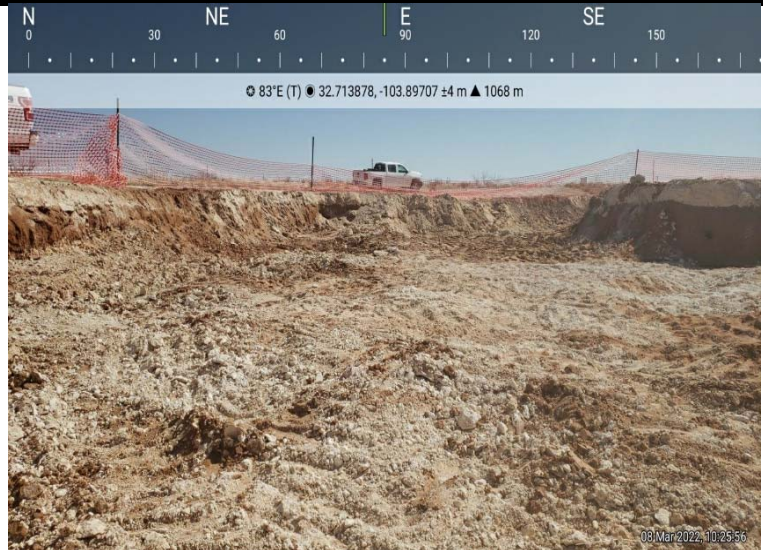
Devon Energy Production Company

Photograph No. 4

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

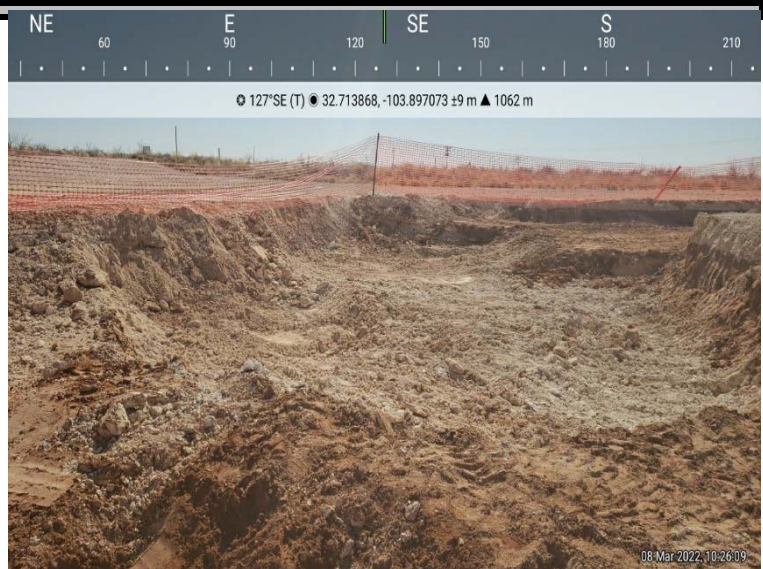
Description:
View of Excavtion

**Photograph No. 5**

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

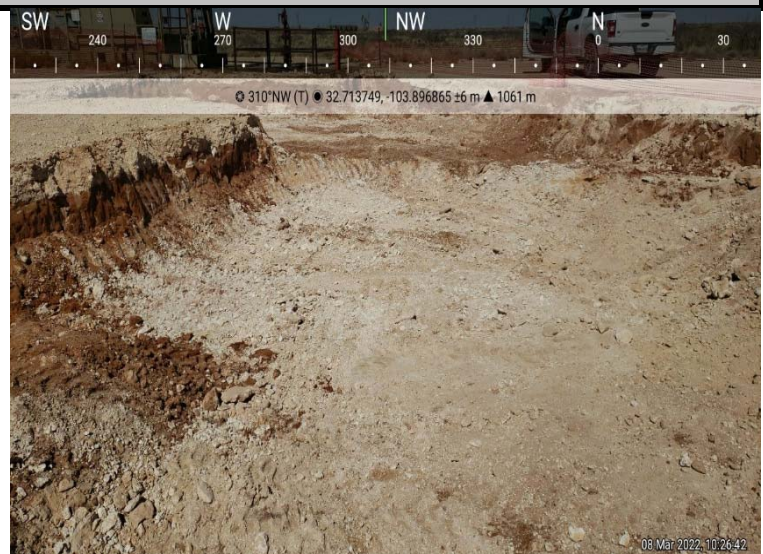
Description:
View of Excavtion

**Photograph No. 6**

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

Description:
View of Excavtion



PHOTOGRAPHIC LOG

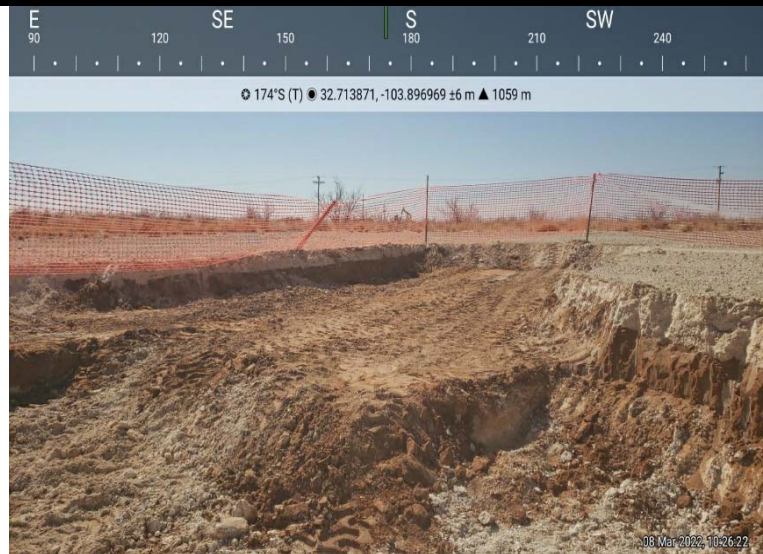
Devon Energy Production Company

Photograph No. 7

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

Description:
View of Excavtion

**Photograph No. 8**

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

Description:
View of Excavtion

**Photograph No. 9**

Facility: West Shugart 29 Federal #003H

County: Eddy County, New Mexico

Description:
View of Excavtion



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 11, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WEST SHUGART 29 FEDERAL #003H

Enclosed are the results of analyses for samples received by the laboratory on 03/08/22 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 1 (H220913-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699	
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59	
Total BTEX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/09/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 2 (H220913-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699	
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59	
Total BTX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 3 (H220913-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699	
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59	
Total BTX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 4 (H220913-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699	
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59	
Total BTX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 5 (H220913-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTX	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 6 (H220913-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTEX	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 7 (H220913-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTX	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 8 (H220913-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTX	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 9 (H220913-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTEx	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 10 (H220913-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTEx	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: CS - 11 (H220913-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTEx	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	182	91.2	200	23.3	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	195	97.7	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 1 (H220913-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699		
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59		
Total BTEX	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 95.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 2 (H220913-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699	
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59	
Total BTEx	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 3 (H220913-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.699	
Toluene*	<0.050	0.050	03/10/2022	ND	2.11	106	2.00	0.366	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.04	102	2.00	1.23	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.32	105	6.00	1.59	
Total BTEX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 4 (H220913-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2022	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/09/2022	ND	2.20	110	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/09/2022	ND	2.12	106	2.00	0.502	
Total Xylenes*	<0.150	0.150	03/09/2022	ND	6.60	110	6.00	0.0384	
Total BTX	<0.300	0.300	03/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 5 (H220913-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2022	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/09/2022	ND	2.20	110	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/09/2022	ND	2.12	106	2.00	0.502	
Total Xylenes*	<0.150	0.150	03/09/2022	ND	6.60	110	6.00	0.0384	
Total BTEX	<0.300	0.300	03/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 6 (H220913-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2022	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/09/2022	ND	2.20	110	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/09/2022	ND	2.12	106	2.00	0.502	
Total Xylenes*	<0.150	0.150	03/09/2022	ND	6.60	110	6.00	0.0384	
Total BTEX	<0.300	0.300	03/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 7 (H220913-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2022	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/09/2022	ND	2.20	110	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/09/2022	ND	2.12	106	2.00	0.502	
Total Xylenes*	<0.150	0.150	03/09/2022	ND	6.60	110	6.00	0.0384	
Total BTEX	<0.300	0.300	03/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/09/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 8 (H220913-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/10/2022	ND	2.20	110	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.12	106	2.00	0.502	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.60	110	6.00	0.0384	
Total BTEX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/09/2022	ND	352	88.0	400	16.7	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	03/08/2022	Sampling Date:	03/07/2022
Reported:	03/11/2022	Sampling Type:	Soil
Project Name:	WEST SHUGART 29 FEDERAL #003H	Sampling Condition:	Cool & Intact
Project Number:	225189	Sample Received By:	Tamara Oldaker
Project Location:	DEVON- EDDY CO NM		

Sample ID: SW - 9 (H220913-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2022	ND	2.10	105	2.00	5.70		
Toluene*	<0.050	0.050	03/10/2022	ND	2.20	110	2.00	1.65		
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	2.12	106	2.00	0.502		
Total Xylenes*	<0.150	0.150	03/10/2022	ND	6.60	110	6.00	0.0384		
Total BTEX	<0.300	0.300	03/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/09/2022	ND	352	88.0	400	16.7		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2022	ND	201	101	200	5.08	
DRO >C10-C28*	<10.0	10.0	03/10/2022	ND	203	102	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	03/10/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Work Order No: H220913



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Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> upfund <input type="checkbox"/>
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="text"/>

Project Name:		West Shugart 29 Federal #003H		Turn Around		ANALYSIS REQUEST													Preservative Codes									
Project Number:		225189		<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO DI Water: H ₂ O									
Project Location		Eddy Co. NM		Due Date:															Cool: Cool MeOH: Me									
Sampler's Name:		Ethan Sessums		TAT starts the day received by the lab, if received by 4:30pm															HCL: HC HNO ₃ : HN									
PO #:		20995505																	H ₂ SO ₄ : H ₂ NaOH: Na									
SAMPLE RECEIPT				Temp Blank:		Yes (No)		Wet Ice:		(Yes) (No)		Parameters																
Received Intact:				(Yes) No		Thermometer ID:		113				BTX 8021B																
Cooler Custody Seals:				Yes No (N/A)		Correction Factor:		-0.5°C				TPH 8015M (GRO + DRO + MRO)																
Sample Custody Seals:				Yes No (N/A)		Temperature Reading:		6.5°C				Chloride 4500																
Total Containers:				20		Corrected Temperature:		6.0°C				HOLD																
Sample Identification				Date		Time		Soil		Water		Grab/Comp		# of Cont														
CS-1				3/7/2022				X				Comp		1		X X X												
CS-2				3/7/2022				X				Comp		1		X X X												
CS-3				3/7/2022				X				Comp		1		X X X												
CS-4				3/7/2022				X				Comp		1		X X X												
CS-5				3/7/2022				X				Comp		1		X X X												
CS-6				3/7/2022				X				Comp		1		X X X												
CS-7				3/7/2022				X				Comp		1		X X X												
CS-8				3/7/2022				X				Comp		1		X X X												
CS-9				3/7/2022				X				Comp		1		X X X												
CS-10				3/7/2022				X				Comp		1		X X X												
Sample Comments																												

Additional Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3-8-22 1145	2		
3			4		
5			6		



Chain of Custody

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program: <input type="checkbox"/> UT/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	State of Project:
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV	Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	West Shugart 29 Federal #003H	Turn Around	<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Press. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	225189	Due Date:															None: NO <input type="checkbox"/> DI Water: H ₂ O				
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm															Cool: Cool <input type="checkbox"/> MeOH: Me				
Sampler's Name:	Ethan Sessums																HCL: HC <input type="checkbox"/> HNO ₃ : HN				
PO #	20995505																H ₂ SO ₄ : H ₂ <input type="checkbox"/> NaOH: Na				
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													H ₃ PO ₄ : HP			
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn			
Total Containers:	20	Corrected Temperature:																NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B												HOLD	
CS-11		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-1		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-2		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-3		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-4		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-5		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-6		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-7		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-8		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			
SW-9		3/7/2022		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X			

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3-8-22 1145			

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 121859

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 121859
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/19/2022