

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	NRM2022649226
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.27659 Longitude -103.94264
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Remuda 100	Site Type CTB
Date Release Discovered 7-30-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	25	23S	29E	Eddy

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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 40	Volume Recovered (bbls) 40
	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 LO of the Remuda 100 found the inlet screen housing on the SWD pump leaking. A vacuum truck was dispatched and recovered 40 barrels of produced water from the lined containment. Liner inspection determined the liner was not operating as designed. A third-party contractor has been retained for remediation activities.

Form C-141

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? A release equal to or greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Adrian Baker to 'Bratcher, Mike, EMNRD'; 'Venegas, Victoria, EMNRD'; 'Hamlet, Robert, EMNRD'; Mann, Ryan via email on Thursday, July 30, 2020 at 4:38 PM.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" 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: <u>Kyle Littrell</u> Title: <u>SH&E Supervisor</u> Signature:  Date: <u>8-13-20</u> email: <u>Kyle_Littrell@xtoenergy.com</u> Telephone: <u>432-221-7331</u>
OCD Only Received by: <u>Ramona Marcus</u> Date: <u>8/13/2020</u>

NRM2022649226

Location:	Remuda 100 CTB	
Spill Date:	7/30/2020	
Area 1		
Approximate Area =	224.58	cu.ft.
VOLUME OF LEAK		
Total Produced Water =	40.00	bbls

TOTAL VOLUME OF LEAK		
Total Produced Water =	40.00	bbls
TOTAL VOLUME RECOVERED		
Total Produced Water =	40.00	bbls

Incident ID	NRM2022649226
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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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: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 10/23/2020

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Cristina Eads Date: 10/28/2020

Incident ID	NRM2022649226
District RP	
Facility ID	
Application ID	

Closure

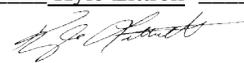
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 10/23/2020

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Cristina Eads Date: 10/8/2020

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: 12/23/2020

Printed Name: Cristina Eads Title: Environmental Specialist



LT Environmental, Inc.

3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

October 26, 2020

New Mexico Oil Conservation Division
District 2
811 South First Street
Artesia, New Mexico 88210

**RE: Closure Request
Remuda 100
Incident Number NRM2022649226
Eddy County, New Mexico**

To Whom It May Concern:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Remuda 100 (Site) located in Unit E, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2022649226.

RELEASE BACKGROUND

On July 30, 2020, the inlet screen on the saltwater disposal pump malfunctioned, resulting in the release of 40 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; all 40 bbls of the released produced water were recovered from within the lined containment. A liner integrity inspection was immediately conducted by XTO personnel following the fluid recovery. A 48-hour advance notice of liner inspection was provided via email to New Mexico Oil Conservation Division (NMOCD) District II office and upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD via email on July 30, 2020 and submitted a Release Notification Form C-141 on August 13, 2020. The release was assigned Incident Number NRM2022649226.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater



well with depth to groundwater data is United States Geologic Survey (USGS) well 321717103561001, located approximately 0.87 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 50 feet bgs, the total well depth is not determined. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well water records are included in Attachment 1. Ground surface elevation at the water well location is 3,033 feet, which is 39 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is a dry wash located approximately 222 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On August 31, 2020, LTE personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. One soil sample was collected from borehole BH01 at a depth of approximately 1.5 feet bgs before encountering auger refusal. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log and are included as Attachment 2. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The borehole delineation soil sample location is depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is included in Attachment 3.

The soil sample was placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil sample was transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to



Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample BH01, collected at a depth of approximately 1.5 feet bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are presented on Figure 2 and are summarized in Table 1. The complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, LTE personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of soil impacts resulting from the July 30, 2020 produced water release within lined containment. One delineation soil sample was collected from borehole BH01 at a depth of approximately 1.5 feet bgs. Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil from the borehole indicated no elevated volatile aromatic hydrocarbons or chloride concentrations beneath the tear in the liner. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly below the tear in the liner, XTO respectfully requests NFA for Incident Number NRM2022649226.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Kalei Jennings
Project Environmental Scientist

Ashley L Ager, P.G.
Senior Geologist



District 2
Page 4

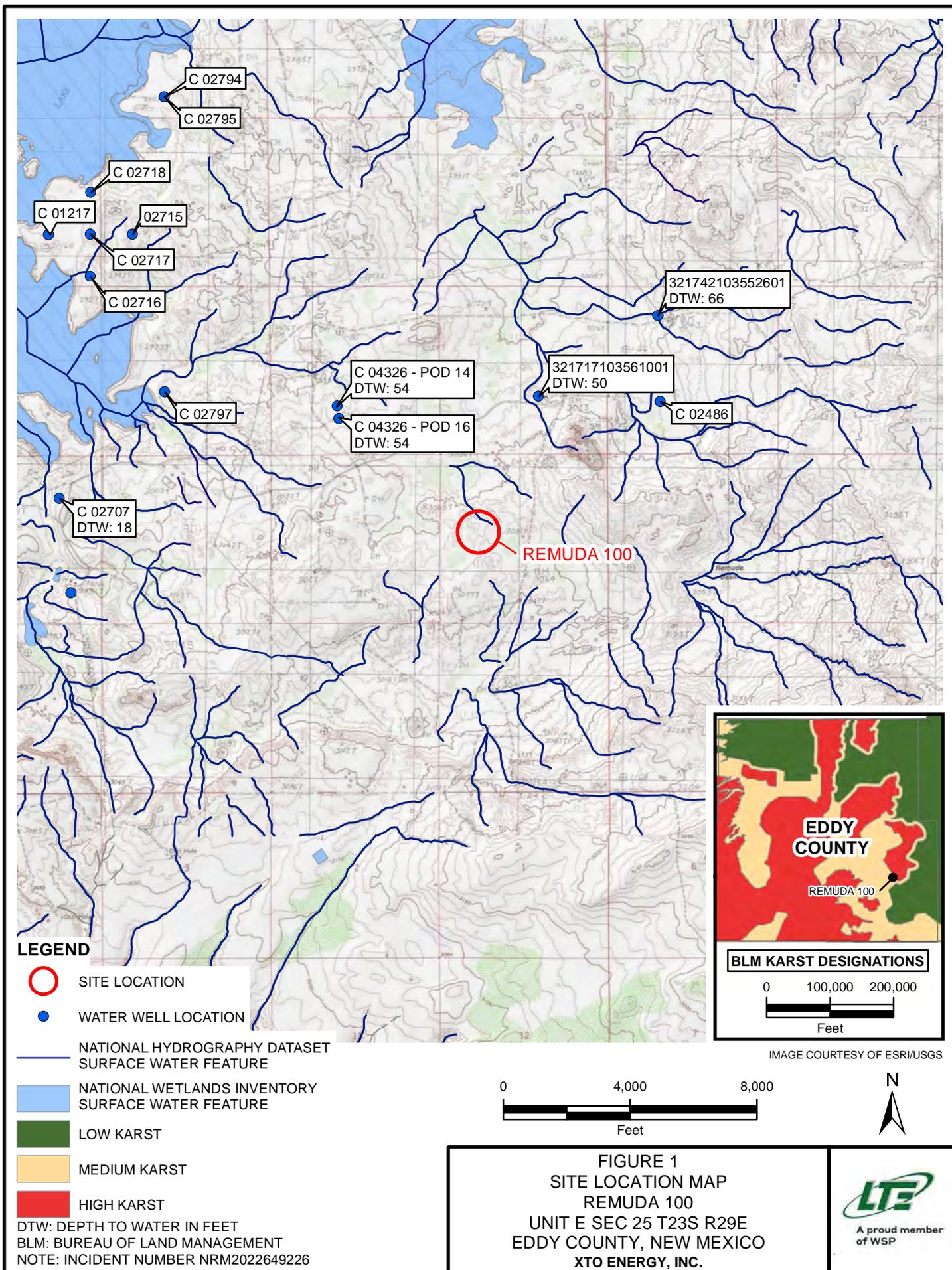
cc: Kyle Littrell, XTO
Ryan Mann, New Mexico State Land Office
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

Figure 1 Site Receptor Map
Figure 2 Delineation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Referenced Water Well Records
Attachment 2 Lithologic/Soil Sampling Logs
Attachment 2 Photographic Log
Attachment 3 Laboratory Analytical Reports

FIGURES







LEGEND

-  DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  INFRASTRUCTURE

IMAGE COURTESY OF ESRI

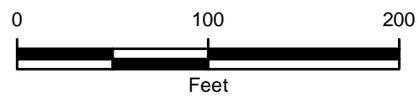


FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
REMUDA 100
UNIT E SEC 25 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES



**TABLE 1
SOIL ANALYTICAL RESULTS**

**REMUDA 100
INCIDENT NUMBER NRM2022649226
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.**

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
BH01	1.5	08/31/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	50.6

Notes:

bgs - below ground surface
 BTEX - benzene, toluene, ethylbenzene, and total xylenes
 DRO - diesel range organics
 GRO - gasoline range organics
 mg/kg - milligrams per kilogram

MRO - motor oil range organics
 NMAC - New Mexico Administrative Code
 NMOCD - New Mexico Oil Conservation Division
 NE - not established
 TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard
 < - indicates result is below laboratory reporting limits
 Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018



ATTACHMENT 2: REFERENCED WELL RECORDS





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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321717103561001

Minimum number of levels = 1

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

USGS 321717103561001 23S.29E.24.41321

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

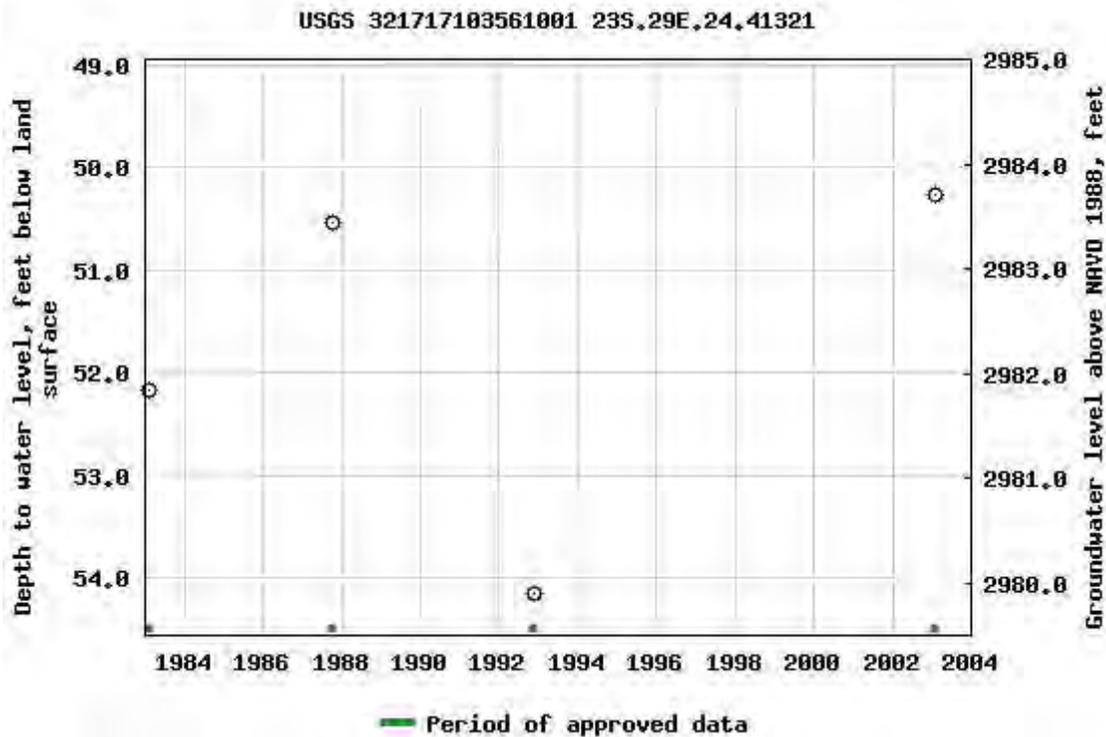
Latitude 32°17'17", Longitude 103°56'10" NAD27

Land-surface elevation 3,034 feet above NAVD88

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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



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

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0.67 0.55 nadww01



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Groundwater

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321742103552601

Minimum number of levels = 1

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

USGS 321742103552601 23S.30E.19.123421

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°17'42", Longitude 103°55'26" NAD27

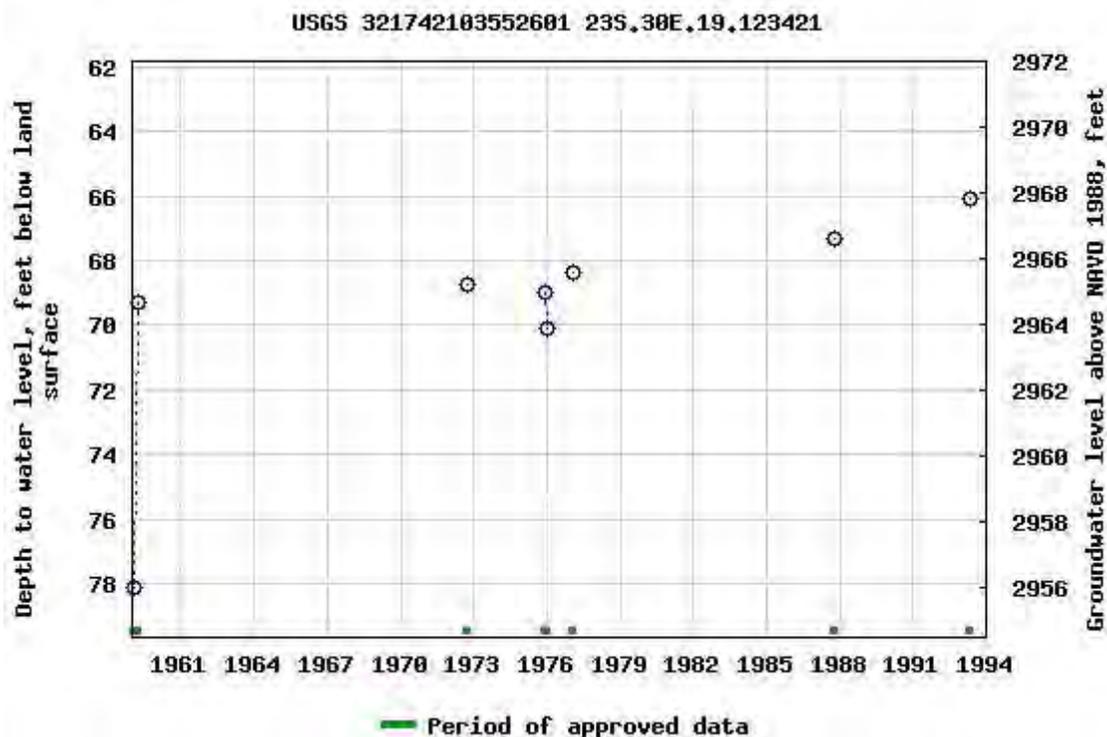
Land-surface elevation 3,034 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2020-10-20 20:18:17 EDT

0.66 0.57 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02707			2	28	23S	29E	595535	3571868*

Driller License: 1348	Driller Company: TAYLOR WATER WELL SERVICE	
Driller Name:		
Drill Start Date: 06/09/2000	Drill Finish Date: 06/09/2000	Plug Date:
Log File Date: 08/28/2000	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 700 GPM
Casing Size: 2.38	Depth Well: 40 feet	Depth Water: 18 feet

Water Bearing Stratifications:	Top	Bottom	Description
	36	78	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom	
	35	40	

*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.

10/20/20 6:13 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04326 POD14	4	2	3	23	23S	29E	598191	3572765

Driller License: 1664	Driller Company: CASCADE DRILLING, LP	
Driller Name: CAIN, SHAWN N.NJR.L.NER		
Drill Start Date: 05/11/2019	Drill Finish Date: 05/11/2019	Plug Date:
Log File Date: 08/28/2019	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.06	Depth Well: 58 feet	Depth Water: 54 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	54	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	48	58

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.

10/20/20 6:15 PM

POINT OF DIVERSION SUMMARY



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)		(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04326 POD16	2	4	3	23	23S	29E	598209	3572664

Driller License:	1664	Driller Company:	CASCADE DRILLING, LP		
Driller Name:	CAIN, SHAWN N.NJR.L.NER				
Drill Start Date:	05/14/2019	Drill Finish Date:	05/14/2019	Plug Date:	
Log File Date:	08/28/2019	PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.07	Depth Well:	64 feet	Depth Water:	54 feet

Water Bearing Stratifications:	Top	Bottom	Description
	52	60	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	54	64

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.

10/20/20 6:15 PM

POINT OF DIVERSION SUMMARY

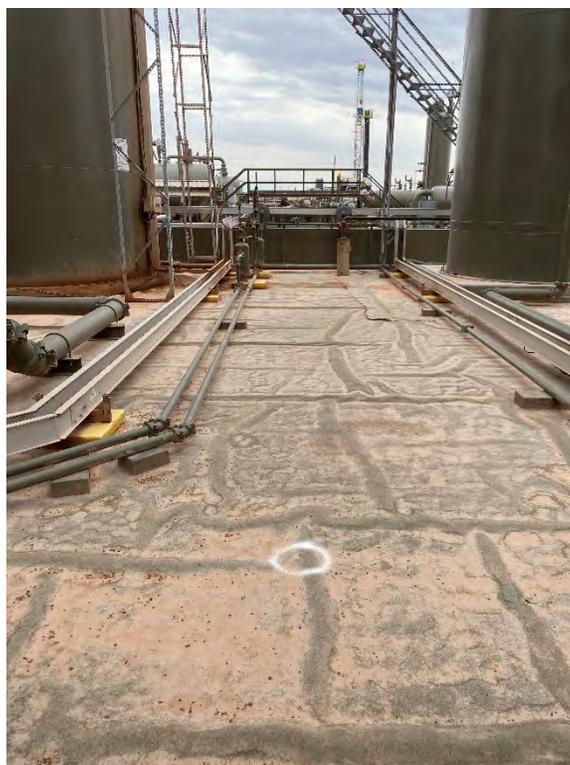
ATTACHMENT 2: LITHOLOGIC / SOIL SAMPLING LOG



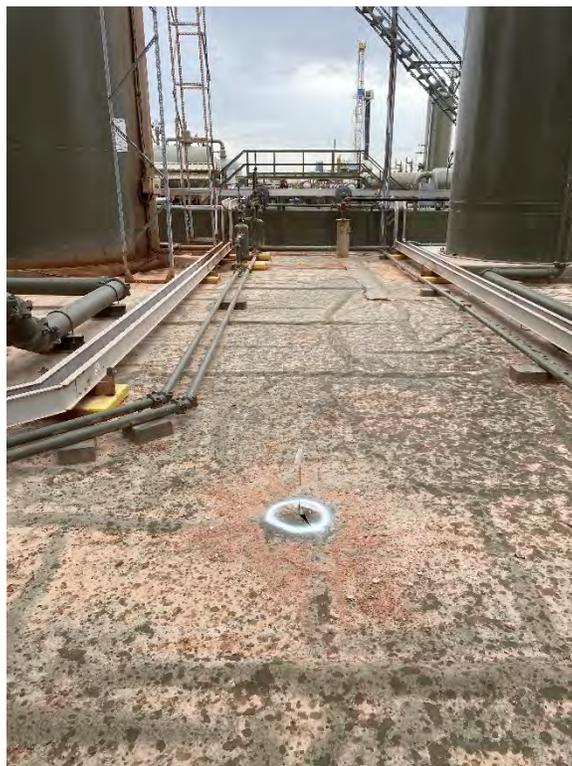
ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: View east of point where liner was determined to be insufficient.



Photograph 2: View east of location of BH01.

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS





Certificate of Analysis Summary 671408

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 100 CTB

Project Id: 012920123

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 08.31.2020 12:27

Report Date: 09.01.2020 11:31

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	671408-001				
	Field Id:	BH01				
	Depth:	1.5- ft				
	Matrix:	SOIL				
	Sampled:	08.31.2020 10:44				
BTEX by EPA 8021B	Extracted:	08.31.2020 17:02				
	Analyzed:	08.31.2020 21:11				
	Units/RL:	mg/kg RL				
	Benzene	<0.00200 0.00200				
	Toluene	<0.00200 0.00200				
	Ethylbenzene	<0.00200 0.00200				
	m,p-Xylenes	<0.00401 0.00401				
	o-Xylene	<0.00200 0.00200				
Total Xylenes	<0.00200 0.00200					
Total BTEX	<0.00200 0.00200					
Chloride by EPA 300	Extracted:	08.31.2020 17:05				
	Analyzed:	08.31.2020 19:02				
	Units/RL:	mg/kg RL				
Chloride	50.6 49.5					
TPH by SW8015 Mod	Extracted:	08.31.2020 15:40				
	Analyzed:	08.31.2020 15:56				
	Units/RL:	mg/kg RL				
	Gasoline Range Hydrocarbons (GRO)	<49.8 49.8				
	Diesel Range Organics (DRO)	<49.8 49.8				
	Motor Oil Range Hydrocarbons (MRO)	<49.8 49.8				
	Total GRO-DRO	<49.8 49.8				
Total TPH	<49.8 49.8					

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 671408

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 100 CTB

012920123

09.01.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.01.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **671408**
Remuda 100 CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 671408. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671408 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 671408

LT Environmental, Inc., Arvada, CO

Remuda 100 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	08.31.2020 10:44	1.5 ft	671408-001



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda 100 CTB

Project ID: 012920123
Work Order Number(s): 671408

Report Date: 09.01.2020
Date Received: 08.31.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 671408

LT Environmental, Inc., Arvada, CO Remuda 100 CTB

Sample Id: **BH01** Matrix: Soil Date Received: 08.31.2020 12:27
 Lab Sample Id: 671408-001 Date Collected: 08.31.2020 10:44 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.31.2020 17:05 Basis: Wet Weight
 Seq Number: 3136036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.6	49.5	mg/kg	08.31.2020 19:02		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 08.31.2020 15:40 Basis: Wet Weight
 Seq Number: 3136042

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.31.2020 15:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.31.2020 15:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.31.2020 15:56	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	08.31.2020 15:56	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.31.2020 15:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	08.31.2020 15:56	
o-Terphenyl	84-15-1	114	%	70-135	08.31.2020 15:56	



Certificate of Analytical Results 671408

LT Environmental, Inc., Arvada, CO

Remuda 100 CTB

Sample Id: **BH01** Matrix: Soil Date Received: 08.31.2020 12:27
 Lab Sample Id: 671408-001 Date Collected: 08.31.2020 10:44 Sample Depth: 1.5 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.31.2020 17:02 Basis: Wet Weight
 Seq Number: 3136040

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.31.2020 21:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.31.2020 21:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.31.2020 21:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.31.2020 21:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.31.2020 21:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.31.2020 21:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.31.2020 21:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.31.2020 21:11	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.31.2020 21:11	



LT Environmental, Inc.
Remuda 100 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3136036
MB Sample Id: 7710556-1-BLK

Matrix: Solid
LCS Sample Id: 7710556-1-BKS

Prep Method: E300P
Date Prep: 08.31.2020
LCSD Sample Id: 7710556-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	266	106	269	108	90-110	1	20	mg/kg	08.31.2020 18:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3136036
Parent Sample Id: 671432-001

Matrix: Soil
MS Sample Id: 671432-001 S

Prep Method: E300P
Date Prep: 08.31.2020
MSD Sample Id: 671432-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.70	200	204	100	204	100	90-110	0	20	mg/kg	08.31.2020 18:39	

Analytical Method: Chloride by EPA 300

Seq Number: 3136036
Parent Sample Id: 671436-006

Matrix: Soil
MS Sample Id: 671436-006 S

Prep Method: E300P
Date Prep: 08.31.2020
MSD Sample Id: 671436-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2420	200	2610	95	2600	90	90-110	0	20	mg/kg	08.31.2020 19:58	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3136042
MB Sample Id: 7710558-1-BLK

Matrix: Solid
LCS Sample Id: 7710558-1-BKS

Prep Method: SW8015P
Date Prep: 08.31.2020
LCSD Sample Id: 7710558-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	902	90	889	89	70-135	1	35	mg/kg	08.31.2020 13:35	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	1020	102	70-135	0	35	mg/kg	08.31.2020 13:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	72		122		118		70-135	%	08.31.2020 13:35
o-Terphenyl	74		117		116		70-135	%	08.31.2020 13:35

Analytical Method: TPH by SW8015 Mod

Seq Number: 3136042

Matrix: Solid
MB Sample Id: 7710558-1-BLK

Prep Method: SW8015P
Date Prep: 08.31.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.31.2020 13:15	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.
Remuda 100 CTB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3136042
Parent Sample Id: 671408-001

Matrix: Soil
MS Sample Id: 671408-001 S

Prep Method: SW8015P
Date Prep: 08.31.2020
MSD Sample Id: 671408-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	937	94	886	89	70-135	6	35	mg/kg	08.31.2020 16:16	
Diesel Range Organics (DRO)	<50.0	999	1050	105	1010	101	70-135	4	35	mg/kg	08.31.2020 16:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		118		70-135	%	08.31.2020 16:16
o-Terphenyl	126		115		70-135	%	08.31.2020 16:16

Analytical Method: BTEX by EPA 8021B

Seq Number: 3136040
MB Sample Id: 7710552-1-BLK

Matrix: Solid
LCS Sample Id: 7710552-1-BKS

Prep Method: SW5035A
Date Prep: 08.31.2020
LCSD Sample Id: 7710552-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0976	98	0.100	100	70-130	2	35	mg/kg	08.31.2020 18:13	
Toluene	<0.00200	0.100	0.0931	93	0.0981	98	70-130	5	35	mg/kg	08.31.2020 18:13	
Ethylbenzene	<0.00200	0.100	0.0979	98	0.0978	98	71-129	0	35	mg/kg	08.31.2020 18:13	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.200	100	70-135	2	35	mg/kg	08.31.2020 18:13	
o-Xylene	<0.00200	0.100	0.0972	97	0.103	103	71-133	6	35	mg/kg	08.31.2020 18:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		96		94		70-130	%	08.31.2020 18:13
4-Bromofluorobenzene	110		91		101		70-130	%	08.31.2020 18:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3136040
Parent Sample Id: 671432-001

Matrix: Soil
MS Sample Id: 671432-001 S

Prep Method: SW5035A
Date Prep: 08.31.2020
MSD Sample Id: 671432-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.115	115	70-130	8	35	mg/kg	08.31.2020 18:54	
Toluene	<0.00200	0.100	0.0999	100	0.107	107	70-130	7	35	mg/kg	08.31.2020 18:54	
Ethylbenzene	<0.00200	0.100	0.100	100	0.111	111	71-129	10	35	mg/kg	08.31.2020 18:54	
m,p-Xylenes	<0.00401	0.200	0.207	104	0.224	112	70-135	8	35	mg/kg	08.31.2020 18:54	
o-Xylene	<0.00200	0.100	0.102	102	0.114	114	71-133	11	35	mg/kg	08.31.2020 18:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		70-130	%	08.31.2020 18:54
4-Bromofluorobenzene	98		98		70-130	%	08.31.2020 18:54

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Casabad, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Chain of Custody

Work Order No: 671408

Project Manager:	Dan Mair	Bill to: (if different)	Kyle Liffell
Company Name:	LE Environmental, Inc./Permian Office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Greene St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Casabad, NM 88220
Phone:	(432) 230-3849	Email:	fsmth@xenco.com dmair@xenco.com

Project Name:	Remuda 100 CTB	Turn Around	<input checked="" type="checkbox"/>
Project Number:	012920123	Routine	<input checked="" type="checkbox"/>
Project Location:	Eddy County	Rush:	
Sampler's Name:	Fathma Smith	Due Date:	
PO #: spill date	7/3/20	Quote #:	

SAMPLE RECEIPT		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature (°C):	1.2 / 1.0	Thermometer ID	T-NM-007		
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Total Containers:	1		

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes
BH01	XXXXXXXXXX	S	8/31/20	1044	1.5'	1	<input checked="" type="checkbox"/> TPH (EPA 8015) <input checked="" type="checkbox"/> BTEX (EPA O=8021) <input checked="" type="checkbox"/> Chloride (EPA 300.0)	MeOH: Me None: NO HNO3: HN H2SO4: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and sub-contractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Fathma Smith</i>	<i>Clare Clifton</i>	8/31/2020 12:27			

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 10890

CONDITIONS OF APPROVAL

Operator: XTO ENERGY, INC Building #5	6401 Holiday Hill Road Midland, TX79707	OGRID: 5380	Action Number: 10890	Action Type: C-141
OCD Reviewer ceads		Condition None		