

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	NRM2030035945
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 32.35112 Longitude -103.83349
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	JRU 36 Rambler	Site Type	SWD
Date Release Discovered	10/07/2020	API#	(if applicable)

Unit Letter	Section	Township	Range	County
G	36	22S	30E	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) 700	Volume Recovered (bbls) 700
	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 reported fluid in the tank containment at the James Ranch # 36 Rambler SWD. The PSV was found to be relieving prematurely. A 48-hour advance liner inspection notification was given to NMOCD District 2. Liner inspection determined the liner was not operating as designed. A third-party contractor has been retained for remediation activities.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? 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 'Griswold, Jim, EMNRD'; 'Bratcher, Mike, EMNRD'; 'Venegas, Victoria, EMNRD'; 'Hamlet, Robert, EMNRD'; 'Mann, Ryan' on Thursday, October 8, 2020 4:58 PM via email.	

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: <u></u>	Date: <u>10-21-20</u>
email: <u>Kyle_Littrell@xtoenergy.com</u>	Telephone: <u>432-221-7331</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>10/26/2020</u>

NRM2030035945

Location:	JRU 36 Rambler SWD		
Spill Date:	10/7/2020		
Area 1			
Approximate Area =		2947.66	sq. ft.
VOLUME OF LEAK			
Total Produced Water =		700.00	bbls
TOTAL VOLUME OF LEAK			
Total Produced Water =		700.00	bbls
TOTAL VOLUME RECOVERED			
Total Produced Water =		700.00	bbls

Incident ID	NRM2030035945
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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?	<u>>100</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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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 12/03/2020

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

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2030035945
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 12/03/2020

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

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: _____ Date: _____

Printed Name: _____ Title: _____

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 12/03/2020

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

OCD Only

Received by: Robert Hamlet Date: 4/19/2021

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Closure Approved by: Robert Hamlet Date: 4/19/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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Location of Release Source

Latitude 32.35112 Longitude -103.83349
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	JRU 36 Rambler	Site Type	SWD
Date Release Discovered	10/07/2020	API#	(if applicable)

Unit Letter	Section	Township	Range	County
G	36	22S	30E	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) 700	Volume Recovered (bbls) 700
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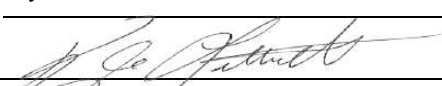
Cause of Release LO reported fluid in the tank containment at the James Ranch # 36 Rambler SWD. The PSV was found to be relieving prematurely. A 48-hour advance liner inspection notification was given to NMOCD District 2. Liner inspection determined the liner was not operating as designed. A third-party contractor has been retained for remediation activities.

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Signature: <u></u>	Date: <u>10-21-20</u>
email: <u>Kyle_Littrell@xtoenergy.com</u>	Telephone: <u>432-221-7331</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>10/26/2020</u>

NRM2030035945

Location:	JRU 36 Rambler SWD	
Spill Date:	10/7/2020	
Area 1		
Approximate Area =	2947.66	sq. ft.
VOLUME OF LEAK		
Total Produced Water =	700.00	bbls
TOTAL VOLUME OF LEAK		
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TOTAL VOLUME RECOVERED		
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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 12/03/2020

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

OCD Only

Received by: _____ Date: _____

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 12/03/2020

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

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



WSP USA

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

December 7, 2020

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

**Re: Closure Request
James Ranch Unit 36 Rambler
Incident Number NRM2030035945
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the James Ranch Unit (JRU) 36 Rambler (Site) located in Unit G, Section 36, Township 22 South, Range 30 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 NRM2030035945.

RELEASE BACKGROUND

On October 7, 2020, the pressure system valve began relieving prematurely, resulting in the release of 700 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 700 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 October 7, 2020 and submitted a Release Notification Form C-141 on October 21, 2020. The release was assigned Incident Number NRM2030035945.

SITE CHARACTERIZATION

WSP 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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well



321946103492001, located approximately 1.3 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 145 feet bgs and a total depth of 180 feet bgs. In addition, there are five wells within a 2-mile radius of the Site that indicate regional depth to water is greater than 100 feet bgs. New Mexico Office of the State Engineer (NMOSE) well C 02418 was sampled most recently on October 4, 1994 and indicates groundwater was 413 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

During January 2020, in an effort to confirm depth to water in the area, a borehole (BH01) was advanced to a depth of 110 feet bgs via truck-mounted sonic drill rig. The borehole was located approximately 0.4 miles southwest of the Site. The location of borehole BH01 is provided on Figure 1. An LTE geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet. The borehole was properly abandoned with hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream, located approximately 1.3 miles southwest 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On November 13, 2020, WSP personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel advanced one



borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Two soil samples were collected from borehole BH01 at depths of approximately 0.5 feet and 1 foot 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.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample BH01 and BH01A, collected at depths of approximately 0.5 feet and 1 foot bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, WSP 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 October 7, 2020 produced water release within lined containment. Two delineation soil samples were collected from borehole BH01 at depths of approximately 0.5 feet and 1 foot 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.



District II
Page 4

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 NRM2030035945.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Spencer Lo'.

Spencer Lo
Staff Geologist

A handwritten signature in black ink, appearing to read 'Ashley L. Ager'.

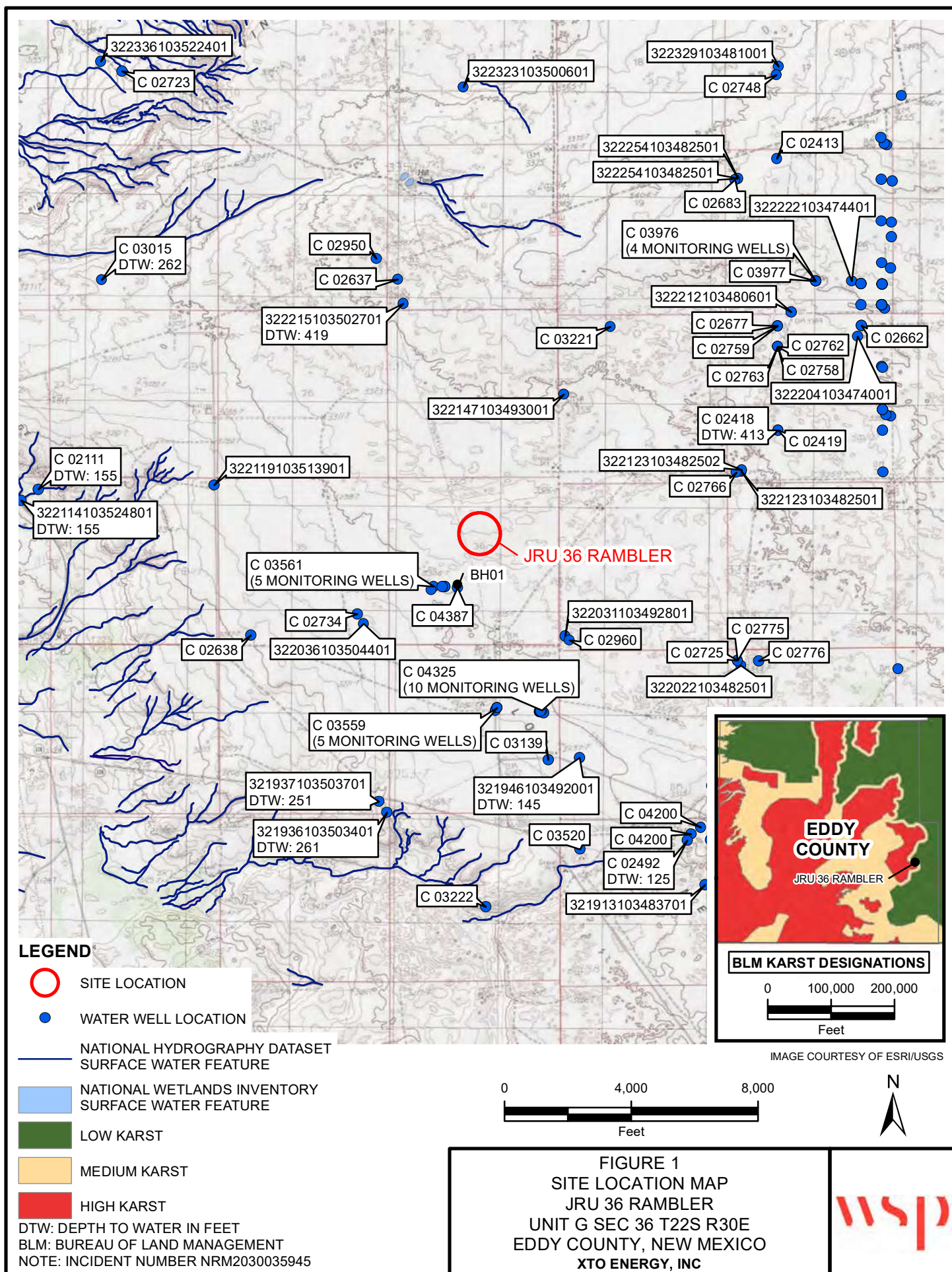
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD
Jim Amos, Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Figure 2 Delineation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Sampling Logs
Attachment 3 Photographic Log
Attachment 4 Laboratory Analytical Reports

FIGURES





LEGEND



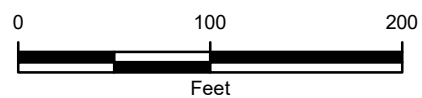
-  DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  LINED CONTAINMENT

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER NRM2030035945
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
JRU 36 RAMBLER
UNIT G SEC 36 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1
Soil Analytical Results
JRU 36 Rambler
Incident Number: NRM2030035945
Eddy County, New Mexico
XTO Energy, Inc.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)										
Delineation Samples										
BH01	11/13/2020	0.5	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	8,710
BH01A	11/13/2020	1	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	5,260

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division


NMAC - New Mexico Administrative Code


< - indicates result is less than the stated laboratory method practical quantitation limit


NE - Not Established


BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
 Greyed data represents samples that were excavated


ATTACHMENT 1: REFERENCED WELL RECORD

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: BH01	Date: 1/18-1/21/20					
		Project Name: JRU 29	RP Number: ZRP-3302, ZRP-3726, ZRP-4040, ZRP-382.					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS, WM	Method: SONIC					
Lat/Long:		Field Screening: CHLORIDES, PID	Hole Diameter: 4"					
Comments: No field screenings just lithology remarks (borehole on pad)		Total Depth: 110'						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			Z		1	1'	CCHE	0-0.5' caliche, tan-off white, fill.
D			Z		2	2'	SP-SM	0.5-5' reddish brwn, SAND, dry, poorly graded, fine-very fine, soft, no odor, no stain
					3			
					4			5-12.5' CALICHE, tan-off white, few subangular gravel, dry, trace fine sand, no odor, no stain
D			Z		5	5'	CCHE	
					6			
					7			10' stringer, silty sand, reddish brwn, poorly graded, dry
					8			12' stringer, silty sand, reddish brwn, poorly graded, dry
					9			
					10			12.5-23' silty SAND, reddish-brwn, dry, poorly graded, fine grain, few tan-off white sub-angular gravel, no stain, no odor.
D			Z		12	12.5'		
					13		SP-SM	
					14			15-18' trace caliche gravel
					15			18-23' caliche gravel absent
					16			23-58' SILTSTONE, moderately consolidated, reddish brwn, 2mm caliche inclusions, trace off-white sub-angular gravel, no stain, no odor.
					17			
					18			
					19			
					20			
					21			
					22			
D				N	23	23'	ML-S	
					24			
					25			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: BH01	Date: 1/18 - 1/21/20					
		Project Name: URU 29	RP Number: ZRP-3702, ZRP-5726, ZRP-4040, ZRP-3082.					
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: CHLORIDES, PID.	Logged By: FS, BB, WM					
		Hole Diameter: 6"	Method: SONIC					
		Total Depth: 110'						
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			Z		26	26'	ML-S	23-58' SILTSTONE, reddish brwn, dry, moderately consolidated, 2mm caliche inclusions, trace caliche gravel, dry, no odor, no stain
					27			
					28			
					29			
					30			30' caliche gravel absent, well consolidated
					31			32' some caliche inclusions (0.5-1mm)
					32			35' moderate consolidation
					33			37.5' well consolidation
					34			39' tan-oft white caliche stringer.
					35			
					36			
M				N	37	37'		
					38			
					39			
					40			
M				N	41	41'		
					42			1/18/20 @ 42'
					43			1/21/20
					44			45-47.5 some caliche inclusions (1-2mm)
D				N	45	45'		47'-47.5' well consolidated, dark purple laminations
					46			
D				N	47	47'		47.5-50' some caliche inclusions (0.5-1mm)
					48			
					49			
D				N	50	50'		

		LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: BH01		Date: 1/18 - 1/21/20		
				Project Name: JRU 29		RP Number: 2RP-3302, 2RP-3726, 2RP-4040, 2RP-3082.		
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: FS, BB, WM		Method: sonic		
Lat/Long:		Field Screening: CHLORIDES, PID		Hole Diameter: 6"		Total Depth: 110'		
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			Z		51		ML-S	52.4 - 52.5' dolomite stringer, light grey - grey, well consolidated 55 - 61' some open pore space (<0.5 mm), abundant silty dolomite inclusions (1-2 mm) w/ few dark purple laminations 58' - 102' CLAYSTONE, dry, reddish brown, low plasticity, cohesive, well consolidated w/ some silty dolomite inclusions (1-2 mm), no stain, no odor. 72' some gypsum inclusions, white, small crystals
D			Z		52			
					53	52'		
					54			
D			Z		55	55'		
					56			
					57			
					58			
					59		CL-S	
D			Z		60	60'		
D			Z		61	61'		
					62			
					63			
D			Z		64			
D			Z		65	65'		
D			Z		66			
D			Z		67	67'		
					68			
D			Z		69	69'		
					70			
D			Z		71	71'		
					72			
					73			
D			Z		74	74'		
					75			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: BH01	Date: 1/18 - 1/21/20					
		Project Name: JRU 29	RP Number: 2AP-5302, 2AP-3726, 7AP-4010, 7AP-3082.					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS, BB, WM	Method: Sonic					
Lat/Long:		Field Screening: CHLORIDES, PID	Hole Diameter: 6"					
		Total Depth: 110'						
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					76		CL-S	79' trace dolomite inclusions (0.5-1 mm)
D			Z		77	77'		
					78			81' few fine crystalline gypsum inclusions
D			Z		79	79'		
					80			86' abundant dolomite inclusions (1-2 mm)
D			Z		81	81'		
					82			99.3-99.5' stringer, dolomite, light grey - grey
D			Z		83	83'		
					84			
D			Z		85	85'		
					86			
					87			
					88	88'		
D			Z		89			
					90	90'		
D			Z		91	91'		
					92			
					93			
			Z		94	94'		
D					95			
					96	96'		
D			Z		97			
					98	98'		
D			Z		99			
					100			

		LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: BH01		Date: 1/18 - 1/21/20		
				Project Name: JRU 29		RP Number: 2AP-3302, 2AP-3726, 2AP-4040, 2AP-3082.		
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: FS, BB, WM		Method: SONIC		
Lat/Long:		Field Screening: CHLORIDES, PID.		Hole Diameter: 6"		Total Depth: 110'		
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
M			N		101		CL-S	102'-110' SILTSTONE, moist, reddish brown, no plasticity, non cohesive, poorly consolidated, w/ some silty dolomite inclusions, grey - light grey, no stain, no odor. 107' stringer, silty dolomite, light grey - grey
					102		ML-S	
					103			
					104	104'		
M			N		105			
					106	106'		
					107			
M			N		108	108'		
					109			
M			N		110	110'		
					111		TD @ 110'	
					112			
					113			
					114			
					115			
					116			
					117			
					118			
					119			
					120			
					121			
					122			
					123			
					124			
					125			



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USGS 321946103492001 23S.31E.06.312333

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Well Site

DESCRIPTION:

Latitude 32°19'53.3", Longitude 103°49'24.8" NAD83

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 180 feet

Land surface altitude: 3,305.00 feet above NGVD29.

Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-04	2013-01-16	2
Revisions	Unavailable (site:0) (timeseries:0)		

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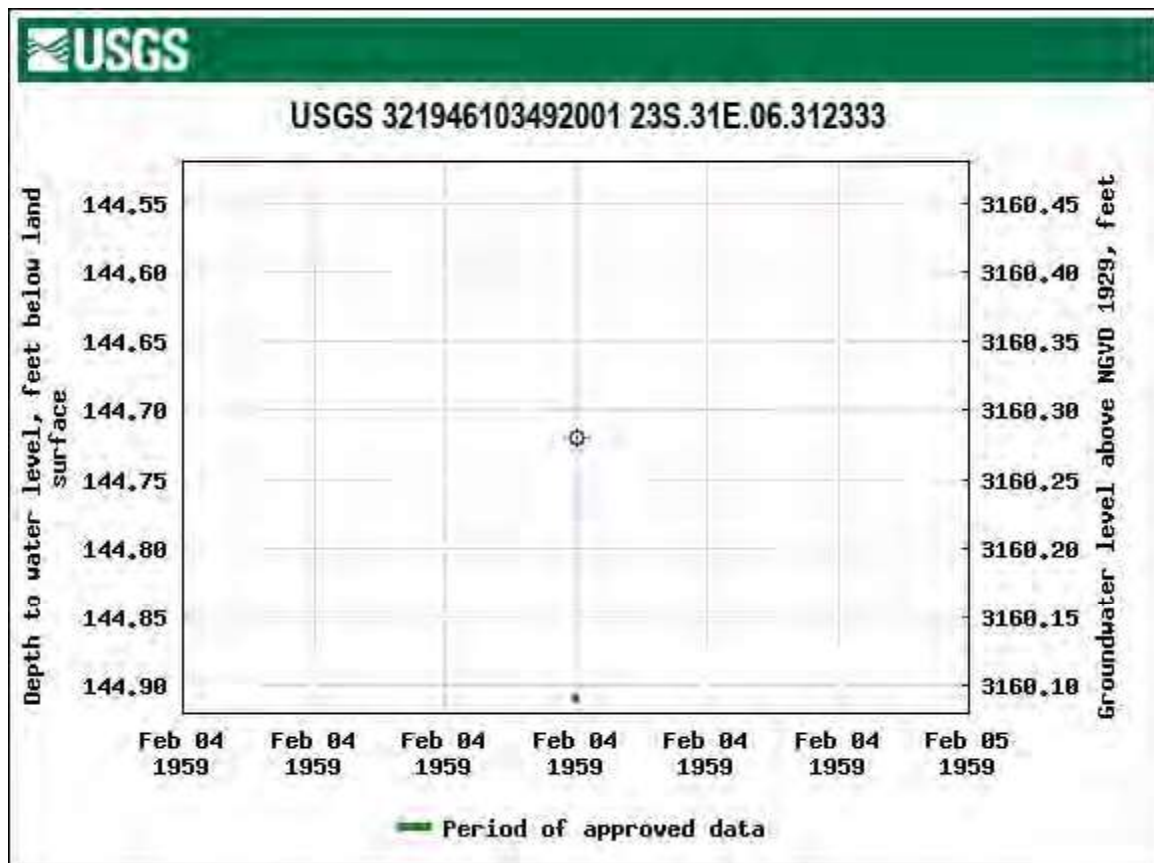
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New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 02418 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: MON MONITORING WELL
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: U.S.DEPT. OF ENERGY
Contact: DOUG LYNN

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
279289	EXPL	2003-08-19	PMT	APR	C 02418 MONITORING WELL	T	0	0	
202188	APPRO	1996-10-30	WDP	WDR	C 02418	T	0	1	
173350	ADM	1996-10-30	WDP	WDR	C 02418	T	0	1	
202181	EXPL	1996-01-25	PMT	LOG	C 02418	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
C 02418		Artesian	3	2	3	29	22S	31E	612613 3580948*

An () after northing value indicates UTM location was derived from PLSS - see Help

Place of Use

Q	Q	256	64	Q16	Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
								0	0		MON		PMT	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		MON		GW	

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WATER RIGHT
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
C	02418	3	2	3	29	22S	31E	612613	3580948* 
<hr/>									
Driller License:	1311	Driller Company:				GEOPROJECTS INTERNATIONAL, INC			
Driller Name:									
Drill Start Date:	09/26/1994	Drill Finish Date:				10/04/1994	Plug Date:		
Log File Date:	05/07/2003	PCW Rev Date:				10/29/1998	Source:		Artesian
Pump Type:	SUBMER	Pipe Discharge Size:				.75"	Estimated Yield:		
Casing Size:	5.00	Depth Well:				617 feet	Depth Water:		413 feet

Meter Number:	729	Meter Make:	NONE
Meter Serial Number:	NONE	Meter Multiplier:	1.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2000	2000	0	A	ms		0
01/27/2000	2000	9	A	ms		0.003
07/03/2000	2000	19	A	mb		0.003
01/08/2001	2000	1096	A	RPT		0.003
06/30/2001	2001	2170	A	RPT		0.003
01/08/2002	2001	3473	A	tg		0.004
07/03/2002	2002	4451	A	rm		0.003
01/09/2003	2002	5103	A	RPT		0.002

**YTD Meter Amounts:	Year	Amount
	2000	0.009
	2001	0.007
	2002	0.005

*UTM location was derived from PLSS - see Help

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Well Site

DESCRIPTION:

Latitude 32°19'40.0", Longitude 103°50'38.7" NAD83
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 317 feet
Land surface altitude: 3,268.00 feet above NGVD29.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-04-20	2013-01-16	10
Field/Lab water-quality samples	1972-09-20	1972-09-20	1
Revisions	Unavailable (site:0) (timeseries:0)		

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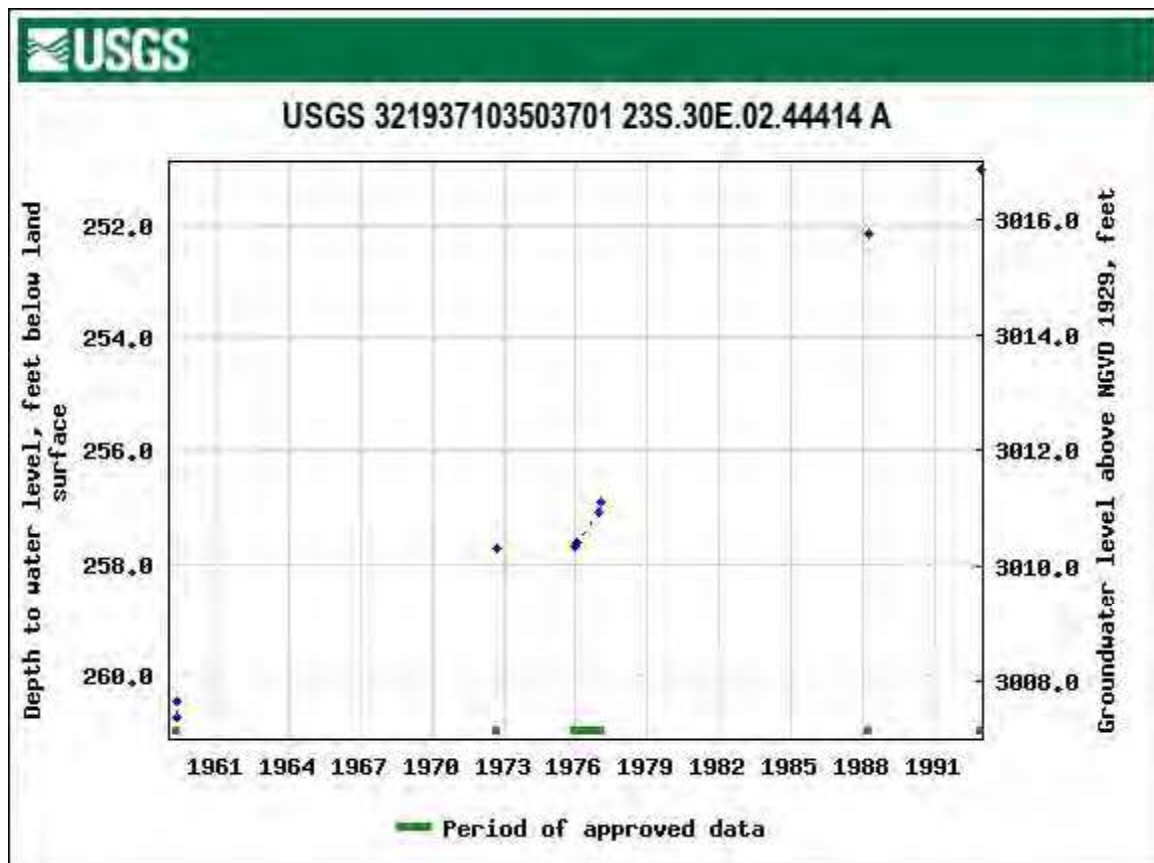
[agency_code=USGS&site_no=321937103503701](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321937103503701)



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Available data for this site

SUMMARY OF ALL AVAILABLE DATA

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Well Site

DESCRIPTION:

Latitude 32°19'36", Longitude 103°50'34" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 320 feet

Land surface altitude: 3,250 feet above NAVD88.

Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-04-03	1959-04-03	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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Title: NWIS Site Information for USA: Site Inventory

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321936103503401)

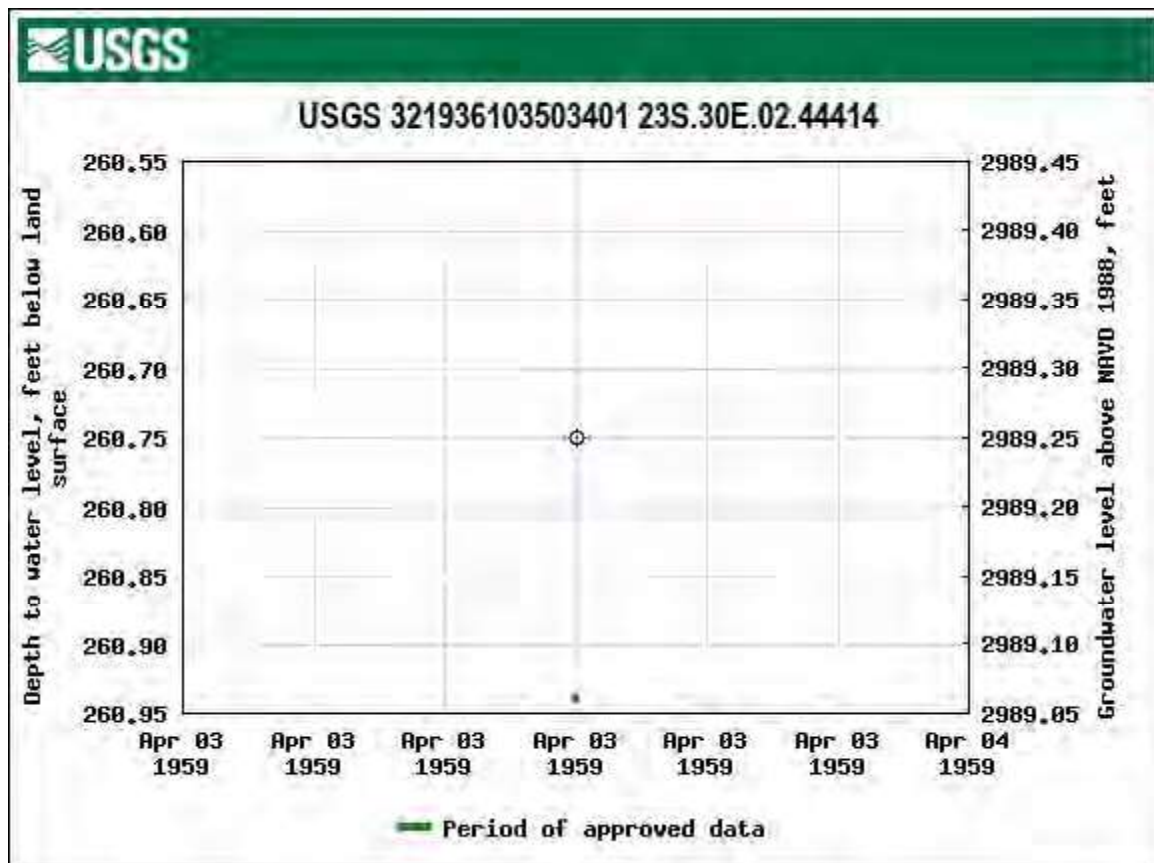
[agency_code=USGS&site_no=321936103503401](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321936103503401)



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Site Information

Geographic Area:

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USGS 322215103502701 22S.30E.24.3334 P-14

Available data for this site

SUMMARY OF ALL AVAILABLE DATA

GO

Well Site

DESCRIPTION:

Latitude 32°22'15", Longitude 103°50'27" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,360 feet above NGVD29.

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1977-02-24	1977-02-24	1
Field/Lab water-quality samples	1977-02-24	1977-03-14	2
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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Title: NWIS Site Information for USA: Site Inventory

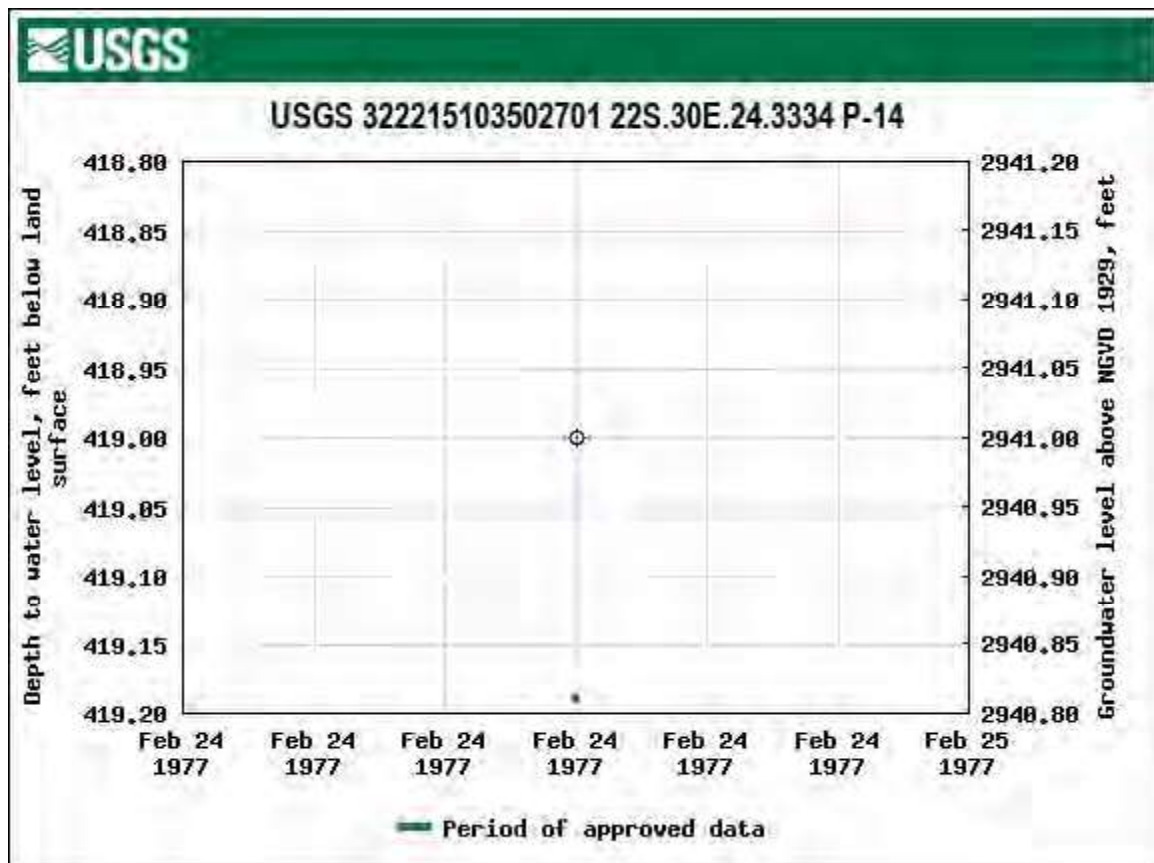
**URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322215103502701)
[agency_code=USGS&site_no=322215103502701](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322215103502701)**




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ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01		11/13/2020				
		Site Name: JRU 36 Rambler						
		RP or Incident Number: NRM2030035945						
LTE Job Number: TE012920152								
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening:		Hole Diameter:				
		Chloride, PID		3"				
Method: Hand Auger								
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	7,848	0.3	no	BH01	0.5'	0.5	CHCE	CALICHE, dry, white to tan, moderately consolidated, well graded, some brown sand, no stain, no odor
dry	4,828	0.1	no	BH01A	1'	1		very consolidated

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

XTO Energy, Inc.	JRU 36 Rambler Eddy County, New Mexico	TE012920152
------------------	---	-------------


Photo No.	Date	
1	November 13, 2020	
View of puncture in liner within containment.		 A photograph showing a large, cylindrical industrial storage tank. The ground in the foreground is a flat, brownish surface with several circular stains. A white circle is drawn on the ground, highlighting a puncture in the liner. The tank has a metal staircase leading up to it. A warning sign is visible on the tank's side.

Photo No.	Date	
2	October 26, 2020	
Image of puncture in liner within containment.		 A close-up photograph of a puncture in the liner within containment. The puncture is a small hole in a brown, textured material. A white circle is drawn around the puncture. The image is overlaid with GPS data: '32.35122, -103.83349', '3340', 'SW201', 'Created with free version of GPS Camera 55', and '12Oct20 10:06 Loving, NM 88256, United States © 12-Oct-20 10:06:54'.



PHOTOGRAPHIC LOG

XTO Energy, Inc.	JRU 36 Rambler Eddy County, New Mexico	TE012920152
------------------	---	-------------


Photo No.	Date	
3	November 13, 2020	
Image of delineation sampling within containment.		 A photograph showing a delineation sampling site. A circular area of reddish-brown soil is visible, with a small black object (possibly a marker or tool) in the center. A shovel with a yellow handle and a black handle are lying on the ground next to the sampling area.

Photo No.	Date	
4	November 13, 2020	
Image of boring hole within containment.		 A photograph showing a boring hole within a containment area. The hole is circular and filled with dark, wet material. The surrounding ground is reddish-brown soil with some rocks and debris.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

Certificate of Analysis Summary 677845
LT Environmental, Inc., Arvada, CO

Project Name: JRU 36 Rambler

Date Received in Lab: Fri 11.13.2020 12:30
Report Date: 11.17.2020 09:10
Project Manager: Jessica Kramer

Project Id: TE012920152
Contact: Dan Moir
Project Location:

Analysis Requested	Lab Id:	677845-001	677845-002		
	Field Id:	BH01	BH01 A		
	Depth:	0.5- ft	1- ft		
	Matrix:	SOIL	SOIL		
	Sampled:	11.13.2020 09:24	11.13.2020 09:30		
BTEX by EPA 8021B	Extracted:	11.13.2020 16:40	11.13.2020 16:40		
	Analyzed:	11.14.2020 06:08	11.14.2020 06:31		
	Units/RL:	mg/kg RL	mg/kg RL		
	Benzene	<0.00198 0.00198	<0.00200 0.00200		
	Toluene	<0.00198 0.00198	<0.00200 0.00200		
	Ethylbenzene	<0.00198 0.00198	<0.00200 0.00200		
	m,p-Xylenes	<0.00397 0.00397	<0.00399 0.00399		
Chloride by EPA 300	o-Xylene	<0.00198 0.00198	<0.00200 0.00200		
	Total Xylenes	<0.00198 0.00198	<0.00200 0.00200		
	Total BTEX	<0.00198 0.00198	<0.00200 0.00200		
	Extracted:	11.13.2020 17:02	11.13.2020 17:02		
	Analyzed:	11.13.2020 23:43	11.13.2020 23:48		
TPH by SW8015 Mod	Units/RL:	mg/kg RL	mg/kg RL		
	Chloride	8710 201	5260 99.8		
	Extracted:	11.13.2020 17:03	11.13.2020 17:03		
	Analyzed:	11.14.2020 02:20	11.14.2020 02:40		
	Units/RL:	mg/kg RL	mg/kg RL		
	Gasoline Range Hydrocarbons (GRO)	<49.8 49.8	<49.8 49.8		
	Diesel Range Organics (DRO)	<49.8 49.8	<49.8 49.8		
Total GRO-DRO	Motor Oil Range Hydrocarbons (MRO)	<49.8 49.8	<49.8 49.8		
	Total GRO-DRO	<49.8 49.8	<49.8 49.8		
	Total TPH	<49.8 49.8	<49.8 49.8		

BRL - Below Reporting Limit

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

Jessica Kramer



Analytical Report 677845

for

LT Environmental, Inc.

Project Manager: Dan Moir

JRU 36 Rambler

TE012920152

11.17.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), 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)



11.17.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **677845**

JRU 36 Rambler

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) 677845. 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. 677845 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,

A handwritten signature in black ink that reads "Jessica Kramer".

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 677845

LT Environmental, Inc., Arvada, CO

JRU 36 Rambler

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	11.13.2020 09:24	0.5 ft	677845-001
BH01 A	S	11.13.2020 09:30	1 ft	677845-002



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *JRU 36 Rambler*

Project ID: *TE012920152*
Work Order Number(s): *677845*

Report Date: *11.17.2020*
Date Received: *11.13.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 677845

LT Environmental, Inc., Arvada, CO

JRU 36 Rambler

Sample Id: **BH01** Matrix: Soil Date Received: 11.13.2020 12:30
 Lab Sample Id: 677845-001 Date Collected: 11.13.2020 09:24 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 17:02 % Moisture:
 Seq Number: 3142338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8710	201	mg/kg	11.13.2020 23:43		20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 11.13.2020 17:03 % Moisture:
 Seq Number: 3142312 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.14.2020 02:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.14.2020 02:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.14.2020 02:20	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	11.14.2020 02:20	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.14.2020 02:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	11.14.2020 02:20	
o-Terphenyl	84-15-1	102	%	70-135	11.14.2020 02:20	



Certificate of Analytical Results 677845

LT Environmental, Inc., Arvada, CO

JRU 36 Rambler

Sample Id: **BH01**
Lab Sample Id: 677845-001

Matrix: Soil
Date Collected: 11.13.2020 09:24

Date Received: 11.13.2020 12:30
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.13.2020 16:40

% Moisture:
Basis: Wet Weight

Seq Number: 3142323

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.14.2020 06:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.14.2020 06:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.14.2020 06:08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.14.2020 06:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.14.2020 06:08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.14.2020 06:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.14.2020 06:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.14.2020 06:08	
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.14.2020 06:08	



Certificate of Analytical Results 677845

LT Environmental, Inc., Arvada, CO

JRU 36 Rambler

Sample Id: **BH01 A** Matrix: Soil Date Received: 11.13.2020 12:30
 Lab Sample Id: 677845-002 Date Collected: 11.13.2020 09:30 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 11.13.2020 17:02 % Moisture:
 Seq Number: 3142338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5260	99.8	mg/kg	11.13.2020 23:48		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 11.13.2020 17:03 % Moisture:
 Seq Number: 3142312 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.14.2020 02:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.14.2020 02:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.14.2020 02:40	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	11.14.2020 02:40	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.14.2020 02:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	11.14.2020 02:40	
o-Terphenyl	84-15-1	114	%	70-135	11.14.2020 02:40	



Certificate of Analytical Results 677845

LT Environmental, Inc., Arvada, CO

JRU 36 Rambler

Sample Id: **BH01 A**
Lab Sample Id: 677845-002

Matrix: Soil
Date Collected: 11.13.2020 09:30

Date Received: 11.13.2020 12:30
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.13.2020 16:40

% Moisture:
Basis: Wet Weight

Seq Number: 3142323

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.14.2020 06:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.14.2020 06:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.14.2020 06:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.14.2020 06:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.14.2020 06:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.14.2020 06:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.14.2020 06:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.14.2020 06:31	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.14.2020 06:31	



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.

JRU 36 Rambler

Analytical Method: Chloride by EPA 300

Seq Number: 3142338

MB Sample Id: 7715204-1-BLK

Matrix: Solid

LCS Sample Id: 7715204-1-BKS

Prep Method: E300P

Date Prep: 11.13.2020

LCSD Sample Id: 7715204-1-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	251	100	246	98	90-110	2	20	mg/kg	11.13.2020 23:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3142338

Parent Sample Id: 677843-002

Matrix: Soil

MS Sample Id: 677843-002 S

Prep Method: E300P

Date Prep: 11.13.2020

MSD Sample Id: 677843-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	262	199	460	99	460	99	90-110	0	20	mg/kg	11.13.2020 23:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3142338

Parent Sample Id: 677883-006

Matrix: Soil

MS Sample Id: 677883-006 S

Prep Method: E300P

Date Prep: 11.13.2020

MSD Sample Id: 677883-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1460	202	1650	94	1650	94	90-110	0	20	mg/kg	11.14.2020 00:37	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142312

MB Sample Id: 7715201-1-BLK

Matrix: Solid

LCS Sample Id: 7715201-1-BKS

Prep Method: SW8015P

Date Prep: 11.13.2020

LCSD Sample Id: 7715201-1-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	1040	104	1140	114	70-135	9	35	mg/kg	11.13.2020 22:37	
Diesel Range Organics (DRO)	<50.0	1000	1080	108	1030	103	70-135	5	35	mg/kg	11.13.2020 22:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	134		110		115		70-135	%	11.13.2020 22:37
o-Terphenyl	130		130		117		70-135	%	11.13.2020 22:37

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142312

Matrix: Solid

MB Sample Id: 7715201-1-BLK

Prep Method: SW8015P

Date Prep: 11.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 22:17	

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.

JRU 36 Rambler

Analytical Method: TPH by SW8015 Mod

Seq Number: 3142312

Parent Sample Id: 677806-001

Matrix: Soil

MS Sample Id: 677806-001 S

Prep Method: SW8015P

Date Prep: 11.13.2020

MSD Sample Id: 677806-001 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	1000	1080	108	1130	113	70-135	5	35	mg/kg	11.13.2020 23:38	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1110	111	70-135	3	35	mg/kg	11.13.2020 23:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		119		70-135	%	11.13.2020 23:38
o-Terphenyl	96		106		70-135	%	11.13.2020 23:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142323

MB Sample Id: 7715197-1-BLK

Matrix: Solid

LCS Sample Id: 7715197-1-BKS

Prep Method: SW5035A

Date Prep: 11.13.2020

LCSD Sample Id: 7715197-1-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	0.0925	93	0.0926	93	70-130	0	35	mg/kg	11.14.2020 01:27	
Toluene	<0.00200	0.100	0.0871	87	0.0868	87	70-130	0	35	mg/kg	11.14.2020 01:27	
Ethylbenzene	<0.00200	0.100	0.0900	90	0.0894	89	71-129	1	35	mg/kg	11.14.2020 01:27	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.181	91	70-135	0	35	mg/kg	11.14.2020 01:27	
o-Xylene	<0.00200	0.100	0.0923	92	0.0917	92	71-133	1	35	mg/kg	11.14.2020 01:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		97		97		70-130	%	11.14.2020 01:27
4-Bromofluorobenzene	115		106		106		70-130	%	11.14.2020 01:27

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142323

Parent Sample Id: 677813-003

Matrix: Soil

MS Sample Id: 677813-003 S

Prep Method: SW5035A

Date Prep: 11.13.2020

MSD Sample Id: 677813-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0948	95	0.0941	94	70-130	1	35	mg/kg	11.14.2020 02:12	
Toluene	<0.00199	0.0996	0.0908	91	0.0876	88	70-130	4	35	mg/kg	11.14.2020 02:12	
Ethylbenzene	<0.00199	0.0996	0.0934	94	0.0909	91	71-129	3	35	mg/kg	11.14.2020 02:12	
m,p-Xylenes	<0.00398	0.199	0.190	95	0.185	93	70-135	3	35	mg/kg	11.14.2020 02:12	
o-Xylene	<0.00199	0.0996	0.0942	95	0.0941	94	71-133	0	35	mg/kg	11.14.2020 02:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	11.14.2020 02:12
4-Bromofluorobenzene	114		110		70-130	%	11.14.2020 02:12

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



Chain of Custody

Work Order No: 1677845

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

www.xenco.com

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 701-2610	Email:	dmair@ltenv.com kmlittrell@ltenv.com

Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> BRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund State of Project: NM	
Reporting Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> ST/UST <input type="checkbox"/> BRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables:	<input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	JRV 36 Rambler	Turn Around	<input checked="" type="checkbox"/>
Project Number:	TE012920152	Routine	<input checked="" type="checkbox"/>
P.O. Number:		Rush:	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Well Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Temperature (°C):	1.3, 11.0	Thermometer ID				
Received Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Correction Factor: +0.007			
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Containers: 2			
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA)	BTEX (EPA)	Chloride	lab, if received by 4:30pm										
BH01					S	11/13/20	0924	0.5'	1	X	X	X	discuss										
BH01A					S	11/13/20	0930	1'	1	X	X	X											
														discuss									

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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
 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 subcontractors. It assigns standard terms and conditions 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 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>[Signature]</i>	<i>[Signature]</i>	11/13/20 13:30			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.13.2020 12.30.00 PM

Work Order #: 677845

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 11.13.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.16.2020

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 12990

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	12990	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM2030035945 JRU 36 RAMBLER, thank you. This closure is approved.