

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	NRM2005839143
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 32.100786 Longitude -103.841961
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Unit 25 BD 901H	Site Type	Production Well
Date Release Discovered	02/11/2020	API# (if applicable)	30-015-45863 Poker Lake Unit 25 BD 901H

Unit Letter	Section	Township	Range	County
L	25	25S	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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride 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 checked="" type="checkbox"/> Other (describe) 75% Freshwater/25% recycled water	Volume/Weight Released (provide units) 138.86 barrels	Volume/Weight Recovered (provide units) 70 barrels

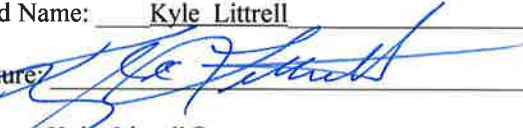
Cause of Release: A lay flat water transfer line parted resulting in a spill of 138.86 barrels of produced water, 70 barrels were recovered by vacuum truck. A third party contractor will be retained to complete remediation activities.

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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? An unauthorized release of a volume of 25 or more barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes by Amy Ruth to Mike Bratcher; Rob Hamlet; Victoria Venegas; 'Griswold, Jim, EMNRD'; blm_nm_cfo_spill@blm.gov; Crisha Morgan on Tuesday, February 11, 2020 at 11:44 AM 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: N/A	
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>2/26/20</u>
email: <u>Kyle_Littrell@xtoenergy.com</u>	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>02/27/2020</u>

NRM2005839143

Location:	PLU 25 Brushy Draw 901H	
Spill Date:	2/11/2020	
Area 1		
Approximate Area =	21553.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =		
0.03		
VOLUME OF LEAK		
Total Produced Water =	79.60	bbls
Area 2		
Approximate Area =	4991.00	sq. ft.
Average Saturation (or depth) of spill =	4.00	inches
Average Porosity Factor =		
0.20		
VOLUME OF LEAK		
Total Produced Water =	59.26	bbls
TOTAL VOLUME OF LEAK		
Total Produced Water =	138.86	bbls
TOTAL VOLUME RECOVERED		
Total Produced Water =	70.00	bbls

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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 checked="" type="checkbox"/> Yes <input 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.

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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 SupervisorSignature:  Date: 03/30/2021email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331**OCD Only**Received by: Cristina Eads Date: 05/09/2021

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Closure

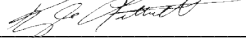
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kyle Littrell Title: SH&E Supervisor

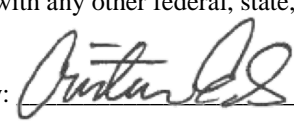
Signature:  Date: 3/30/2021

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

OCD Only

Received by: Cristina Eads Date: 05/09/2021

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: 06/25/2021

Printed Name: Cristina Eads Title: Environmental Specialist



WSP USA

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

March 30, 2021

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

**RE: Closure Request Addendum
Poker Lake Unit 25 Brushy Draw 901H
Incident Number NRM2005839143
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following addendum to a Closure Request submitted September 15, 2020. This Addendum provides an update to the depth to groundwater determination activities at the Poker Lake Unit 25 Brushy Draw 901H (Site), located in Unit L, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1), in response to the denial of the Closure Request by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD expressed concern that the depth to groundwater assessment and horizontal delineation may not be sufficient. Based on the additional depth to groundwater determination activities described below, XTO is requesting no further action (NFA) for Incident Number NRM2005839143.

BACKGROUND

On September 15, 2020, WSP submitted a Closure Request to the NMOCD for the February 11, 2020 water transfer line release of 138.86 barrels (bbls) of a mixture of freshwater and recycled water at the Site. A vacuum truck was dispatched to the Site to recover freestanding fluid. Approximately 70 bbls of the released fluid was recovered. XTO reported the release to NMOCD immediately via email on February 11, 2020 and submitted a Release Notification and Corrective Action Form C-141 (Form C-141) on February 26, 2020. The release was assigned Incident Number NRM2005839143.

The Closure Request detailed site characterization 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). Based on the site characterization, the following Closure Criteria were applied:

- 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

Closure was requested based on laboratory analytical results for the excavation and delineation soil samples indicating benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

On October 15, 2020, NMOCD denied the Closure Request for Incident Number NRM2005839143 for the following reasons:

- *The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. The responsible party may choose to remediate to the most stringent levels listed in Table 1 in lieu of drilling to determine the depth to groundwater.*
- *Horizontal delineation has not been completed. The values for determination of horizontal impact are derived by either “background” value as determined appropriate to Rule 29, or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for “on-pad” releases to ensure the release did not extend to the “off-pad”/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Lab data must be provided as evidence of delineation efforts. Delineation samples SS01, 02, 03, and final confirmation samples SW03, 04, and 05 exceed 600 mg/kg Chloride, thus requiring additional samples beyond these points.*

ADDITIONAL SITE ACTIVITIES

In an effort to confirm the depth to groundwater determination, WSP oversaw installation a soil boring within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4498 was drilled to a depth of 109 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The location of the borehole is approximately 428 feet east of the site and is provided on Figure 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 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Based on the confirmed depth to water greater than 109 feet bgs, the Table 1

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Closure Criteria identified in the original Closure Request are applicable and appropriate for protection of groundwater at this Site.

DELINEATION

Preliminary assessment samples SS01, SS02, and SS03, collected on pad, and excavation sidewall samples SW03, SW04, and SW05, collected near the edge of the pad, were compliant with the Site Closure Criteria. Additionally, samples SS01, SS02, and SS03 are laterally delineated on-pad by samples collected from SS07, SS08, SS09, SS10, and SS11 (Figure 2) that are compliant with the most stringent Closure Criteria. Delineation soil samples SS01, SS02, SS03, and excavation confirmation soil samples SW03, SW04, and SW05 are delineated off-pad to the south and west by all of the excavation soil samples collected in the pasture (Figure 3), which met the 600 mg/kg reclamation standard in the top 4' bgs. The soil sample analytical results are summarized on the attached Table 1.

CLOSURE REQUEST

Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the February 11, 2020 release of a mixture of freshwater and recycled water at the Site. Based on the confirmed depth to water greater than 100 feet bgs as presented in this addendum, and laboratory analytical results below the Closure Criteria in the delineation and excavation soil samples, XTO respectfully requests no further action for Incident Number NRM2005839143.

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

Sincerely,

WSP USA, INC.

A handwritten signature in black ink that reads "Elizabeth Naka".

Elizabeth Naka
Assistant Consultant

A handwritten signature in black ink that reads "Ashley L. Ager".

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

cc: Kyle Littrell, XTO
Bureau of Land Management

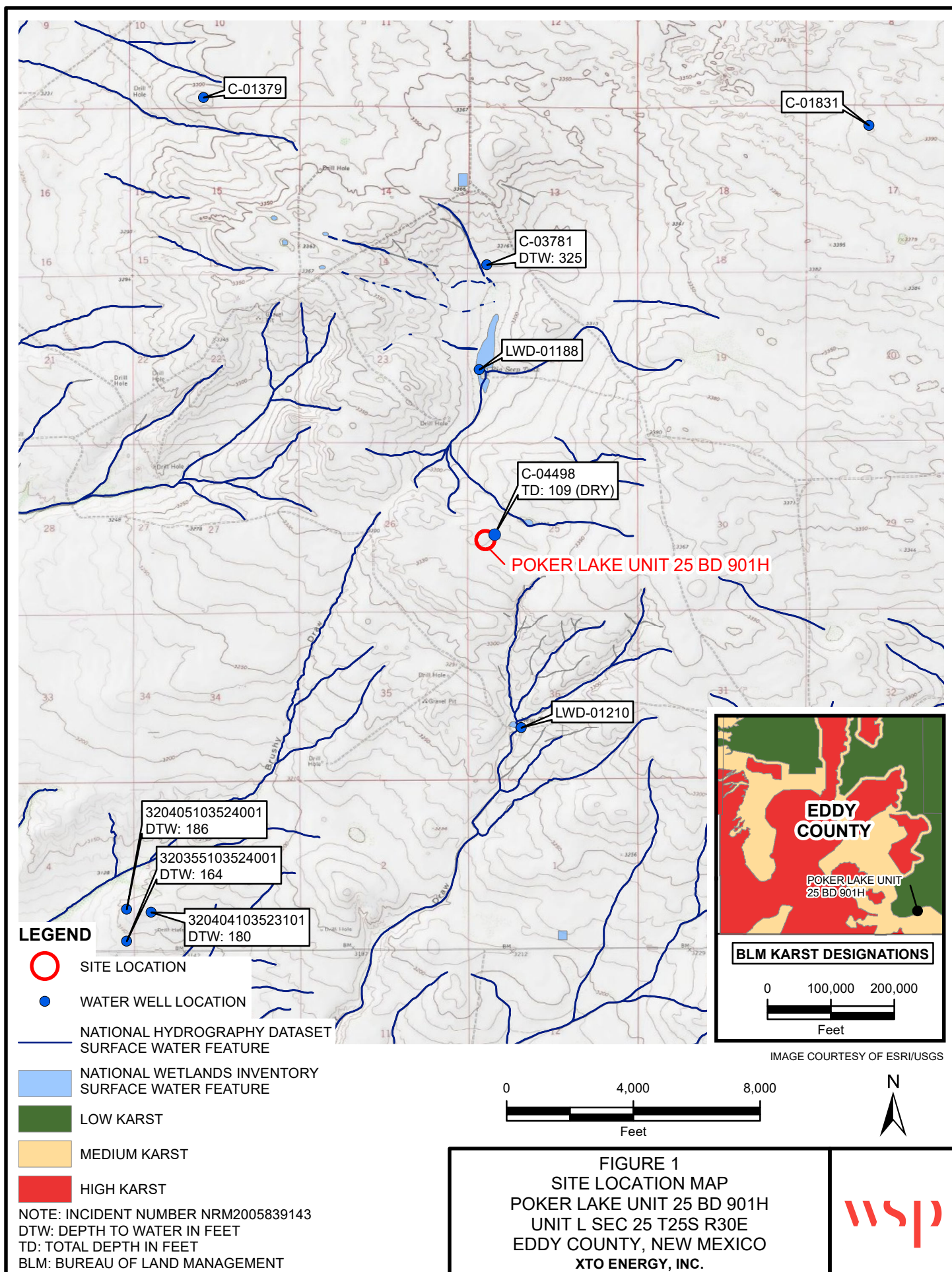


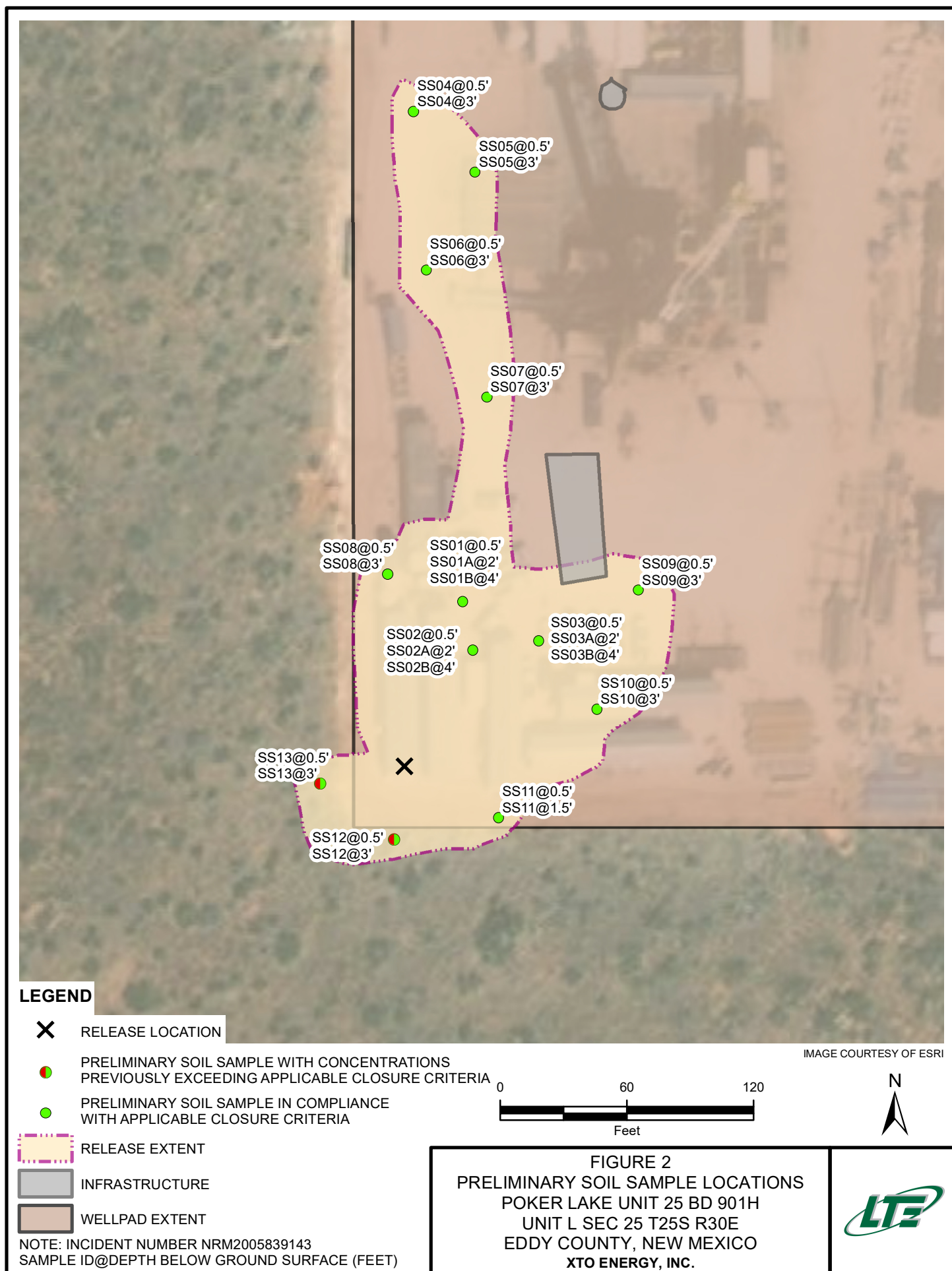
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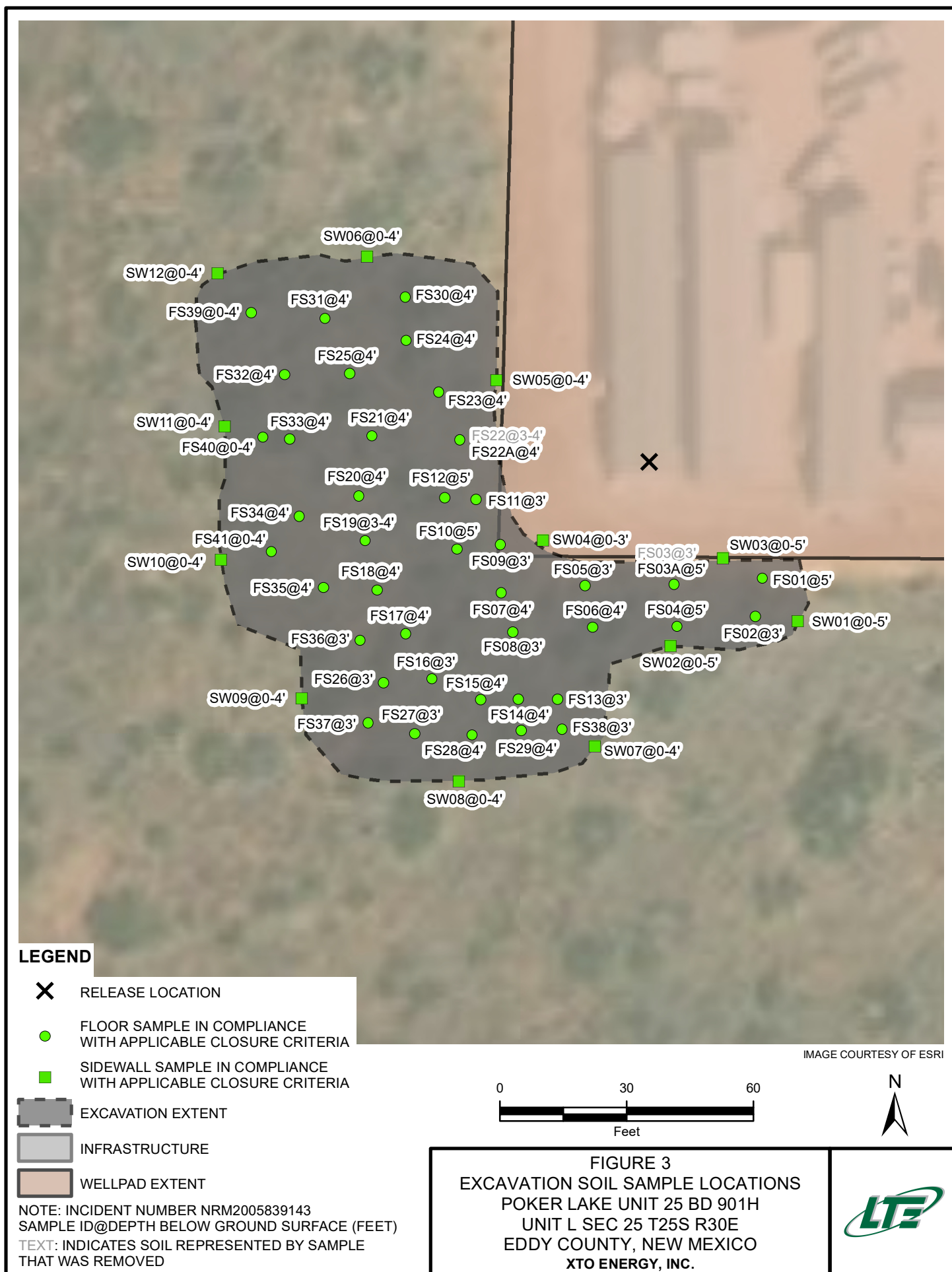
Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Attachment 1 Lithologic / Soil Sample Log

FIGURES







TABLES

Table 1

Soil Analytical Results
Poker Lake Unit 25 Brushy Draw 901H
Incident Number NRM2005839143
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (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)			10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	4/22/2020	0.5	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	14,100
SS01A	04/27/2020	2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,230
SS01 B	04/27/2020	4	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	241
SS02	4/22/2020	0.5	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	18,600
SS02 A	04/27/2020	2	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	861
SS02 B	04/27/2020	4	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	382
SS03	4/22/2020	0.5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	9,640
SS03 B	04/27/2020	2	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	1,770
SS03 A	04/27/2020	4	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	450
SS04	06/18/2020	0.5	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	386
SS04A	06/18/2020	3	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	133
SS05	06/18/2020	0.5	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	506
SS05A	06/18/2020	3	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	43.6
SS06	06/18/2020	0.5	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,730
SS06A	06/18/2020	3	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	205
SS07	06/18/2020	0.5	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	119
SS07A	06/18/2020	3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	70.0
SS08	06/18/2020	0.5	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	424
SS08A	06/18/2020	3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	522
SS09	06/18/2020	0.5	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	138
SS09A	06/18/2020	3	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	108

Table 1

Soil Analytical Results
Poker Lake Unit 25 Brushy Draw 901H
Incident Number NRM2005839143
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (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)			10	50	NE	NE	NE	1,000	2,500	20,000
SS10	06/18/2020	0.5	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	390
SS10A	06/18/2020	3	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	57.2
SS11	06/11/2020	0.5	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	35.9
SS11A	06/11/2020	1.5	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	33.8
SS12	06/18/2020	0.5	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	734*
SS12A	06/18/2020	3	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	253
SS13	06/18/2020	0.5	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,460*
SS13A	06/18/2020	3	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	212
Excavation Floor Samples										
FS01	07/01/2020	5	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	313*
FS02	06/29/2020	3	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	595*
FS03	06/29/2020	3	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	902*
FS03A	07/01/2020	5	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	577*
FS04	07/01/2020	5	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	666*
FS05	06/30/2020	3	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	573*
FS06	07/01/2020	4	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	348*
FS07	07/01/2020	4	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	306*
FS08	06/30/2020	3	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	340*
FS09	06/30/2020	3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	294*
FS10	07/01/2020	5	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	336*
FS11	06/30/2020	3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	432*

Table 1

Soil Analytical Results
Poker Lake Unit 25 Brushy Draw 901H
Incident Number NRM2005839143
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (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)			10	50	NE	NE	NE	1,000	2,500	20,000
FS12	07/01/2020	5	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	186*
FS13	07/08/2020	3	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	217*
FS14	07/08/2020	4	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	57.5*
FS15	07/08/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	87.1*
FS16	07/08/2020	3	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	541*
FS17	07/09/2020	4	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	22.7*
FS18	07/09/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	107*
FS19	07/08/2020	3 - 4	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	472*
FS20	07/08/2020	4	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	183*
FS21	07/08/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	66.2*
FS22	07/08/2020	3 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	788*
FS22A	7/13/2020	4	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	1,200*
FS23	07/09/2020	4	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	911*
FS24	7/13/2020	4	<0.00200	0.00349	<50.2	<50.2	<50.2	<50.2	<50.2	2190*
FS25	7/13/2020	4	<0.00202	0.00279	<50.0	<50.0	<50.0	<50.0	<50.0	183*
FS26	7/13/2020	3	<0.00198	0.00372	<50.0	<50.0	<50.0	<50.0	<50.0	55.5*
FS27	7/13/2020	3	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	66.2*
FS28	7/13/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	62.5*
FS29	7/13/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	86.7*
FS30	7/15/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	183*

Table 1

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Poker Lake Unit 25 Brushy Draw 901H
Incident Number NRM2005839143
Eddy County, New Mexico

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NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS31	07/15/2020	4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	1,320*
FS32	07/15/2020	4	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	142*
FS33	07/15/2020	4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	75.4*
FS34	07/15/2020	4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	46.5*
FS35	07/15/2020	4	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	1,050*
FS36	07/15/2020	3	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	61.2*
FS37	07/15/2020	3	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	66.4*
FS38	07/15/2020	3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	386*
FS39	07/16/2020	4	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	47.5*
FS40	07/16/2020	4	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	34.5*
Excavation Sidewall Samples										
SW01	07/01/2020	0 - 5	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	527*
SW02	07/01/2020	0 - 5	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	415*
SW03	07/09/2020	0 - 5	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	2,070**
SW04	07/09/2020	0 - 3	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	2,510**
SW05	07/09/2020	0 - 4	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	1,910**
SW06	07/15/2020	0 - 4	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	382*
SW07	07/14/2020	0 - 4	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	454*
SW08	7/13/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	344*
SW09	07/14/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	165*

Table 1

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Poker Lake Unit 25 Brushy Draw 901H
Incident Number NRM2005839143
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (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)			10	50	NE	NE	NE	1,000	2,500	20,000
SW10	07/15/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	525*
SW11	07/15/2020	0 - 4	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	234*
SW12	07/15/2020	0 - 4	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	292*

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: LITHOLOGIC / SOIL SAMPLE LOGS



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

03/11/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4498 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4498Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

DSE DII MAR 11 2021 PM 4:22





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

USE ON MAR 11 2021 PM 4:22

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4498			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES 32°	MINUTES 6'	SECONDS 1.96"	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103°	50'	26.19"	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 02/24/2021		DRILLING ENDED 02/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 109	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	109	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.

POD NO.

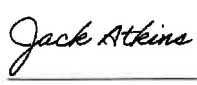
TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2


DSE DJT MPR 11 2021 PM 4:22

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	34	34	Caliche, tan, no odor, no stain, gravel, dry	Y ✓ N	
	34	40	6	sand/ caliche, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N	
	40	56	16	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N	
	56	72	16	sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N	
	72	79	7	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N	
	79	109	30	sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, m	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div>					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220				BH or PH Name:		Date:			
				C-4498		2/24/2021			
				Site Name: PLU 25 BD 202H, 121H, 901H					
				RP or Incident Number: NRM2011453506					
				LTE Job Number: TE012920069					
LITHOLOGIC / SOIL SAMPLING LOG						Logged By SL		Method: Hollow Stem Auger	
Lat/Long: 32.100897, -103.840412				Field Screening: N/A		Hole Diameter: 6.5"		Total Depth: 109.7'	
Comments: No field screening, only logged lithology, well screened from 89.7' - 109.7'									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D			N			0	CCHE	0-34' Caliche, tan, no odor, no stain, gravel, dry	
						5			
						10			
						15			
						20			
						25			
						30			
D			N			35	SP-SM	-13' no gravel	
						40			
						45			
						50			
						55			
						60			
						65			
D			N			70	SS	56' - 72' sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry	
						75			
						80			
M			N			85	SS	72' - 79' sand, tan, no odor, no stain, m-f grain, well sorted, dry	
						90			
						95			
						100			
						105			
						110			
						115			
						120		79' - 109.7' sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, moist	
TD @ 109.7'									

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 25030

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 25030
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	The responsible party shall reclaim all areas disturbed by the remediation and closure at their final land use and maintain those areas to control dust and minimize erosion to the extent practical.	6/25/2021