

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	NRM2012229921
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 32.24287 Longitude -103.88607
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	PLU 320 Battery	Site Type	Battery
Date Release Discovered	4/22/2020	API#	(if applicable)

Unit Letter	Section	Township	Range	County
O	04	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____ BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	.99	Volume Recovered (bbls)	.90
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	15.53	Volume Recovered (bbls)	14.10
	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: Fluids were released from a broken sight glass on a two phase separator. A third-party contractor has been retained for remediation activities.

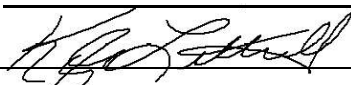
State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

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> Signature: <u></u> email: <u>Kyle_Littrell@xtoenergy.com</u>	Title: <u>SH&E Supervisor</u> Date: <u>4-29-20</u> Telephone: <u>432-221-7331</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>5/1/2020</u>	

NRM2012229921

Location:	PLU 320 BTTY	
Spill Date:	4/22/2020	
Area 1		
Approximate Area =	661.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.94	bbls
Total Produced Water =	14.65	bbls
Area 2		
Approximate Area =	1266.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.03	bbls
Total Produced Water =	0.53	bbls
Area 3		
Approximate Area =	1353.00	sq. ft.
Average Saturation (or depth) of spill =	0.25	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.01	bbls
Total Produced Water =	0.14	bbls
Area 4		
Approximate Area =	3982.00	sq. ft.
Average Saturation (or depth) of spill =	0.13	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.01	bbls
Total Produced Water =	0.21	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.99	bbls
Total Produced Water =	15.53	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.90	bbls
Total Produced Water =	14.10	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?	>100' (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

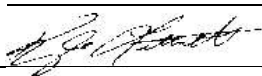
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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

Printed Name: Kyle Littrell Title: SH&E Supervisor
Signature:  Date: 1/25/2021
email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: _____ Date: _____

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Remediation Plan

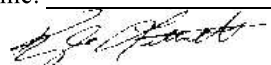
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor
Signature:  Date: 1/25/2021
email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Chad Hensley Date: 03/25/2021

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

Signature:  Date: 03/25/2021



WSP USA

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

January 26, 2021

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

**RE: Deferral Request Addendum
Poker Lake Unit 320 Battery
Incident Number NRM2012229921
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 Addendum to the Deferral Request submitted July 20, 2020. This Addendum provides a description of the depth to groundwater determination activities at the Poker Lake Unit (PLU) 320 Battery (Site) in Unit O, Section 4, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1), in response to the denial of the Deferral 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 submitting this Deferral Request Addendum, requesting deferral of final remediation for Incident Number NRM2012229921 until the Site is reconstructed, and/or the well pad is abandoned.

BACKGROUND

On July 20, 2020, WSP submitted a Deferral Request to the NMOCD for the April 22, 2020 release from a failed sight glass on a two-phase separator. Approximately 0.99 (bbls) of crude oil and 15.53 bbls of produced water were released onto the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 0.90 bbls of crude oil and 14.10 bbls of produced water were recovered. XTO reported the release to NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on April 29, 2020 and was subsequently assigned Incident Number NRM2012229921.

The Deferral 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

Deferral was requested due to TPH-impacted soil left in place immediately surrounding active production equipment near floor sample FS11. XTO safety policy restricts earth-moving activities within two feet of active production equipment. An estimated 2.9 cubic yards of residual impacted soil remains in-place. The requested deferral area and active production equipment is shown on Figure 2. The residual impacted soil beneath or adjacent to the active production equipment is delineated laterally by final excavation soil samples FS08 to the north, FS05 and FS06 to the west, FS01, FS04, and FS12 to the south, FS09, FS15, and FS16 to the east, and vertically by borehole samples BH01 and BH01A that were compliant with the Closure Criteria.

On August 19, 2020, NMOCD denied the Deferral Request for Incident Number NRM2012229921 for the following reasons:

- *Depth to groundwater is not 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. Vertical delineation, which is driven by depth to water, is incomplete because the depth to groundwater has not been established.*
- *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, for chloride, 600 mg/kg in soils.*

ADDITIONAL SITE ACTIVITIES

In an effort to confirm the depth to groundwater determination, WSP installed a soil boring within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring BH01 was drilled to a depth of 110 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 0.3 miles northwest of the site and is depicted 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 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Based on the confirmed depth to water greater than 110 feet bgs, the Table 1 Closure Criteria identified in the original Deferral Request are applicable and appropriate for protection of groundwater at this Site.

District II
Page 3**DELINEATION**

An estimated 2.9 cubic yards of residual impacted soil remains in-place immediately surrounding active production equipment near floor sample FS11. The residual impacted soil beneath or adjacent to the active production equipment is delineated laterally to the correctly applied Closure Criteria by final excavation soil samples FS08 to the north, FS05 and FS06 to the west, FS01, FS04, and FS12 to the south, FS09, FS15, and FS16 to the east, and vertically by borehole samples BH01 and BH01A that were compliant with the Closure Criteria. Based on the confirmed depth to groundwater greater than 100 feet bgs, the samples meet the applied Closure Criteria and no further delineation is necessary. The requested deferral area, soil sample locations, and analytical results are shown on Figure 2.

DEFERRAL REQUEST

Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the July 20, 2020 release of crude oil and produced water. An estimated 2.9 cubic yards of residual impacted soil remains in-place beneath or adjacent to the active production equipment. The impacted soil remaining in-place is laterally and vertically delineated to below the Site Closure Criteria.

Based on the confirmed depth to water greater than 110 feet bgs and laboratory analytical results for the lateral and vertical delineation soil samples below the Site Closure Criteria, XTO respectfully requests deferral of final remediation for Incident Number NRM2012229921 until the Site is reconstructed, and/or the well pad is abandoned.

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 blue ink, appearing to read 'Spencer Lo'.

Spencer Lo
Assistant Geologist

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

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

cc: Kyle Littrell, XTO
United States Bureau of Land Management – New Mexico

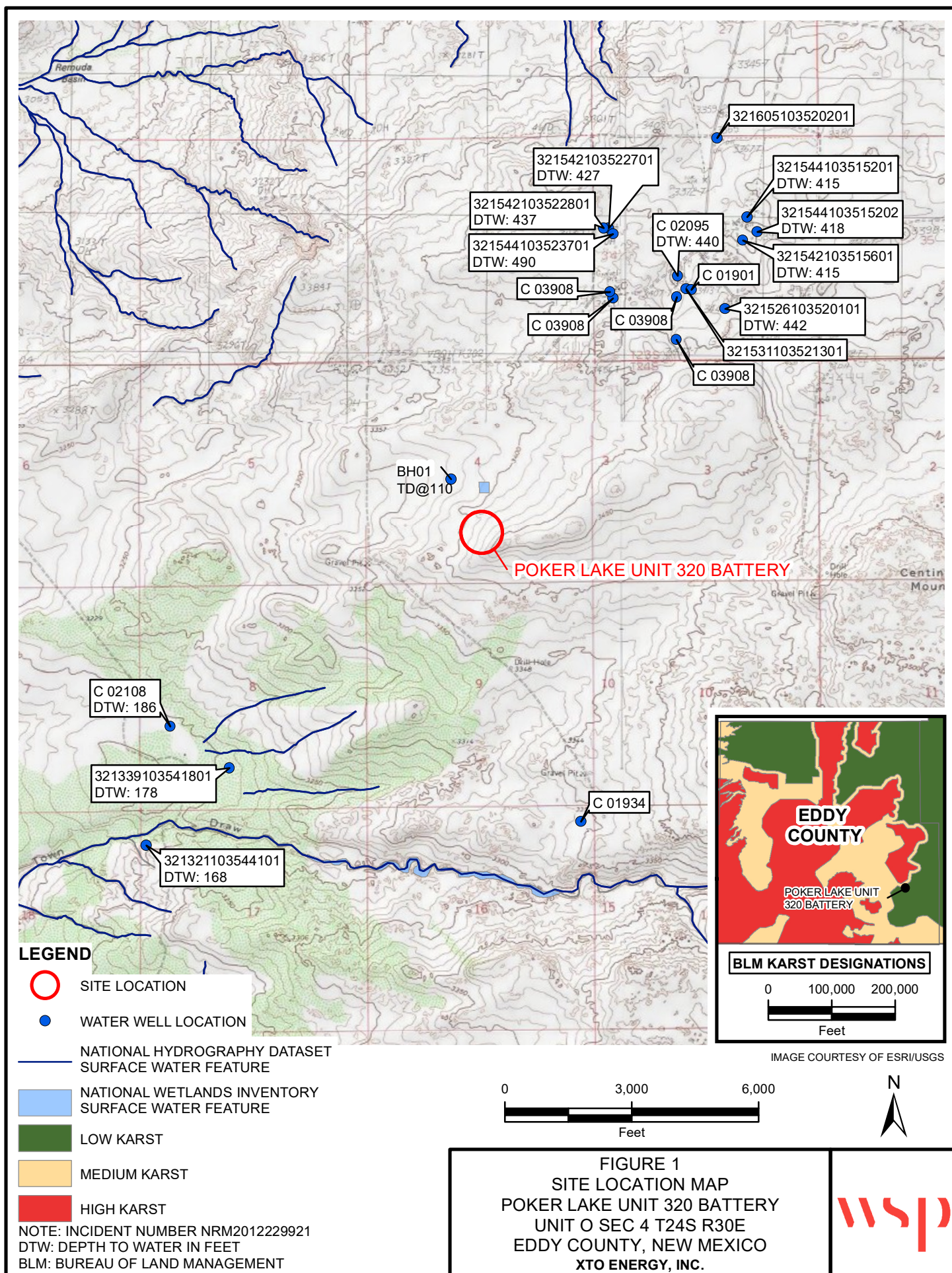


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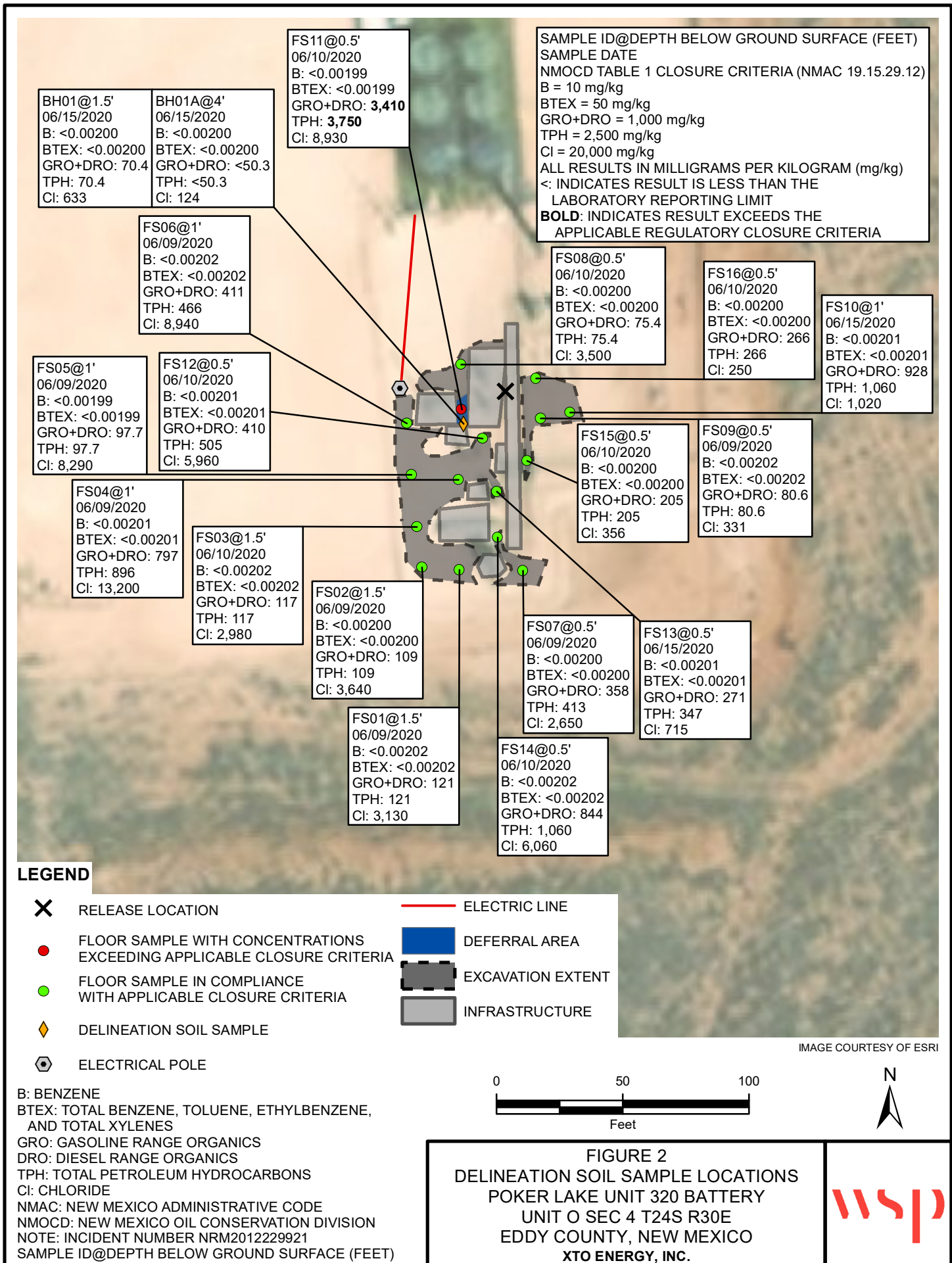
Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Attachment 1 Lithologic / Soil Sample Log


FIGURES





P:\XTO Energy\GIS\MXD\012920077_PLU 320 BATTERY 4-22-2020\012920077_FIG01_SL_RECEPTOR_2020.mxd





ATTACHMENT 1: LITHOLOGIC/SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01		12/28/2020				
		Site Name:		PLU 320				
		RP or Incident Number:		NRM2012229921				
		LTE Job Number:		TE012920077				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By WM, LD				
Lat/Long: 32.246338, -103.888448		Field Screening: Chloride, PID		Method: Hollow Stem Auger				
		Hole Diameter: 8.25"		Total Depth: 110'				
Comments: No filed screenings, lithologic remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			1	CCHE	0-1.5' : CALICHE, poor-moderate consolidation, few sand, fine grain, light brown, no stain, no odor, dry
D			N			2	SW	
						3		1.5'-5' : SAND, well graded, fine grain, few gravel, sub angular, 2-8mm. Red/brown, no stain, no odor, dry
						4		
M			N			5	SC	5'-16' : SAND, fine grain, poorly graded, few gravel, 4-20mm, some clay, cohesive, moderate plasticity, red/brown, no stain, no odor, moist
						6		
						7		9'-16' : Shift to trace caliche gravel
						8		
						9		14' : Shift to few clay, low plasticity, noncohesive
						10		16' : Shift to large grain size, gravel absent
						11		
						12		
						13		
						14		
						15		
M			N			16	SW-SC	16'-85' : SAND, well graded, large grain, little clay, noncohesive, low plasticity, red/brown, no stain, no odor, moist
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
						25		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name:		Date:	
								BH01		12/28/2020	
								Site Name:		PLU 320	
								RP or Incident Number:		NRM2012229921	
								LTE Job Number:		TE012920077	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By WM, LD		Method: Hollow Stem Auger	
Lat/Long: 32.246338, -103.888448				Field Screening: Chloride, PID				Hole Diameter: 8.25"		Total Depth: 110'	
Comments:											
No filed screenings, lithologic remarks only											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M			N			26	SW-SC	16'-85' : SAND, well graded, large grain, little clay, noncohesive, low plasticity, red/brown, no stain, no odor, moist 34' : Shift to lighter brown 39' - 70' : Trace Caliche gravel, sub angular, 0.5 - 1mm, Driller comment: More resistance			
						27					
						28					
						29					
						30					
						31					
						32					
						33	SW-SC				
						34					
						35					
M			N			36					
						37					
						38					
						39					
						40					
M			N			41	SW-SC				
						42					
						43					
						44					
						45					
						46					
						47					
						48					
						49					
M			N			50	SW-SC				

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:	Date:					
		BH01	12/28/2020					
		Site Name:	PLU 320					
		RP or Incident Number:	NRM2012229921					
		LTE Job Number:	TE012920077					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By WM, LD	Method: Hollow Stem Auger					
Lat/Long: 32.246338, -103.888448		Field Screening: Chloride, PID	Hole Diameter: 8.25"					
		Total Depth:	110'					
Comments: No filed screenings, lithologic remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M			N			51	SW-SC	16'-85' : SAND, well graded, large grain, little clay, noncohesive, low plasticity, red/brown, no stain, no odor, moist
						52		
						53		39' - 70' : Trace Caliche gravel, sub angular, 0.5 - 1mm, Driller comment: More resistance
						54		
						55		
						56		
M			N			57	SW-SC	
						58		
						59		
						60		
						61		
						62		
						63		
M			N			64	SW-SC	
						65		
						66		
						67		
						68		
						69		
						70		
						71		
M			N			72	SW-SC	
						73		
						74		
						75		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:	Date:					
		BH01	12/28/2020					
		Site Name:	PLU 320					
		RP or Incident Number:	NRM2012229921					
		LTE Job Number:	TE012920077					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By WM, LD	Method: Hollow Stem Auger					
Lat/Long: 32.246338, -103.888448		Field Screening: Chloride, PID	Hole Diameter: 8.25"					
		Total Depth:	110'					
Comments: No filed screenings, lithologic remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M			N			76	SW-SC	16'-85' : SAND, well graded, large grain, little clay, noncohesive, low plasticity, red/brown, no stain, no odor, moist
						77		
						78		84' : Introduction of little caliche gravel, sub angular, 1.5-7mm
						79		85' - 105' : SANDSTONE, very poorly consolidated, medium-fine grain, well graded, few caliche gravel, sub angular, 1.5-7mm, light brown - almond brown, no stain, no odor, moist
						80		
						81		92' : Shift to trace caliche gravel
						82		99' : Caliche gravel absent
						83		
						84		
M			N			85	SW-S	
						86		
						87		
						88		
						89		
						90		
						91		
						92		
						93		
						94		
						95		
						96		
						97		
						98		
						99		
						100	SW-S	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01		12/28/2020				
		Site Name:		PLU 320				
		RP or Incident Number:		NRM2012229921				
		LTE Job Number:		TE012920077				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By WM, LD				
Lat/Long: 32.246338, -103.888448		Field Screening: Chloride, PID		Method: Hollow Stem Auger				
		Hole Diameter: 8.25"		Total Depth: 110'				
Comments: No filed screenings, lithologic remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M			N			101	SW-S	85' - 105' : SANDSTONE, very poorly consolidated, medium-fine grain, well graded, few caliche gravel, sub angular, 1.5-7mm, light brown - almond brown, no stain, no odor, moist
						102		
						103		104' : Reintroduction of caliche gravel, trace
						104		105' - 110' : SANDSTONE, highly consolidated, medium-fine grain, poorly graded, few clay, low plasticity, noncohesive, light brown-almond brown, no stain, no odor, dry
D			N			105		
						106	SP-S (SP-SC)	
						107		
						108		
						109		
						110		
						111		Total Depth : 110.45' bgs Condition: Dry (12/28/20 @ 14:40)
						112		DTW Measurement on 1/5/20: N/a Dry
						113		
						114		
						115		
						116		
						117		
						118		
						119		
						120		
						121		
						122		
						123		
						124		
						125		

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

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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 15873

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	15873	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
chensley	None