

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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Proposed Alternative Method Permit or Closure Plan Application

Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Breech C #120
API Number: 30-039-3065 OCD Permit Number:
U/L or Qtr/Qtr N Section 12 Township 26N Range 6W County: Rio Arriba
Center of Proposed Design: Latitude 36 49763 Longitude 107.42039 NAD: ☐ 1927 ☒ 1983
Surface Owner: Federal State Tribal Trust or Indian Allotment
2.
☐ Pit: Subsection F or G of 19 15.17.11 NMAC
Temporary: \(\subseteq \text{ Drilling } \subseteq \text{ Workover} \)
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
X Lined ☐ Unlined Liner type: Thickness 20 mil X LLDPE ☐ HDPE ☐ PVC ☐ Other
X String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L 200 x W 80 x D 8-12
3.
☐ Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A \(\) Drilling a new well \(\) Workover or Drilling (Applies to activities which require prior approval of a permit or notice of
intent) To be used during completion operations
☐ Drying Pad ☒ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
4 MECENTE S
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid: & OIL CONS DU.
Tank Construction material:
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
5.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
X Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
8. Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☑ Signed in compliance with 19.15.3.103 NMAC	
9. Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	office for
consideration of approval. Fencing- Hogwire Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a	pproval.
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	ing pads or
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	☐ Yes ☐ No ☐ NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	Yes No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 	Yes No
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	,
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	☐ Yes ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No

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Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Yellow-grade Tanks - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
 ✓ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ✓ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ✓ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ✓ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC
and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: 🛛 Drilling 🗌 Workover 🔲 Emergency 🔲 Cavitation 🔲 P&A 🔲 Permanent Pit 🔲 Below-grade Tank 🔀 Closed-loop System
☐ Alternative Proposed Closure Method: ☐ Waste Excavation and Removal ☑ Waste Removal (Closed-loop systems only)
 ☒ On-site Closure Method (Only for temporary pits and closed-loop systems) ☒ In-place Burial ☐ On-site Trench Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Maste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids	d Steel Tanks or Haul-off Bins Only: (19.15.17.13.), drilling fluids and drill cuttings. Use attachment if	D NMAC) more than two									
facilities are required.	NMO1 0	211									
Disposal Facility Name: Envirotech	Disposal Facility Permit Number: NM01-0										
Disposal Facility Name: IEI	Disposal Facility Permit Number: NM01-0										
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) ☒ No	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No										
Required for impacted areas which will not be used for future service and operati Soil Backfill and Cover Design Specifications based upon the appropria Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 NMA n I of 19.15.17.13 NMAC	С									
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may required an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate dist al Bureau office for consideration of approval. Just	rict office or may be									
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Da	ata obtained from nearby wells	Yes No									
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Date of the State Engineer - iWATERS database search; USGS; Date of the State	ata obtained from nearby wells	Yes X No									
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Database search; US	ata obtained from nearby wells	X Yes ☐ No ☐ NA									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other silake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ignificant watercourse or lakebed, sinkhole, or playa	☐ Yes 🛛 No									
Within 300 feet from a permanent residence, school, hospital, institution, or churc - Visual inspection (certification) of the proposed site; Aerial photo; Satellii		☐ Yes 🛛 No									
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	Yes 🛛 No									
Within incorporated municipal boundaries or within a defined municipal fresh wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written appro	·	Yes X No									
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual inspection (certification) of the proposed site	☐ Yes 🏿 No									
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Minim	ng and Mineral Division	☐ Yes 🛛 No									
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolo Society; Topographic map	gy & Mineral Resources; USGS; NM Geological	Yes 🛛 No									
Within a 100-year floodplain FEMA map		☐ Yes ☒ No									
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the state	equirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19 15.17.13 NMAC equirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannot H of 19.15.17.13 NMAC n I of 19.15.17.13 NMAC	.15.17.11 NMAC									

19.
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):Malia Villers Title: Permitting Tech.
Signature: Date: 1/21/2011
e-mail address: malia_villers@xtoenergy com Telephone: (505) 333-3100
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment)
OCD Representative Signature: Approval Date:/28///
Title: OCD Permit Number:
21.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
Closure Method: Waste Excavation and Removal
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations
Site Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation Representation Application Rates and Seeding Technique
Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached.
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number ☐ Soil Backfilling and Cover Installation
☐ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude NAD: \[\textstyle 1927 \[\textstyle 1983
25. On waster Cleaning Contification.
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print):
Signature:Date:
e-mail address: Telephone:

Lodestar Services, Inc. PO Box 4465, Durango, CO 81302		Pit Permit Siting Criteria Information Sheet	Client: Project: Revised: Prepared by:	XTO Energy tank permitting 8-Jan-08 Trevor Ycas
API#:[USPLSS:	26N 06W 12 N
Name:	BREECH C	#120	Lat/Long:	36.497630°, -107.420390°
Depth to groundwater:		depth > 100'	Geologic formation:	San Jose Formation (Tsj), alluvium
Distance to closest continuously flowing watercourse:	26 miles	NW to 'San Juan River'	Site Elevation: 2015m/6611'	<u></u> ,
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	miles W	V to 'Albert Lake'; ~5.6 SW to 'Largo Canyon' SE to Albert Canyon		
			Soil Type:	Rockland/ Aridisols
Permanent residence, school, hospital, institution or church within 300'		NO		
,	-		Annual Precipitation:	Navajo Dam: 12.95", Governador: 11.98",
Domestic fresh water well or spring within 500'		NO	Precipitation Precipitation Notes:	Capulin Rgr Stn.: 14.98", Otis: 10.41" Historical daily max. precip.: 4.19" (Bloomfield)
Any other fresh water well or spring within 1000'		NO		
Within incorporated municipal boundaries Within defined municipal fresh water well field		NO	Attached Documents:	25N05W_iWaters pdf, 25N06W_iWaters.pdf, 25N07W_iWaters.pdf, 26N05W_iWaters.pdf, 26N06W_iwaters.pdf, 26N06W_iwaters.pdf, 27N05W_iWaters.pdf, 27N06W_iWaters.pdf, 27N07W_iWaters.pdf
		NO	FM350049INDO_BRE E ECH_C_120.jpg	BREECHC120_gEarth-PLS.jpg, BREECHC120_topo-PLS.jpg, BREECHC120_gEarth-IWaters jpg
Wetland within 500'			Mining Activity:	None Near

Within unstable area NO

Within 100 year flood plain

No -FEMA Zone 'X'

NM_NRD-MMD_MinesMillQuarries_BREECH_group jpg

Additional Notes:

drains to 'Largo Canyon' via 'Albert Canyon'

located at uppermost reaches of Albert Canyon stream channels; located ~1000' NE of 'Albert Lake'

located on 'Ensenada Mesa', NNW of 'Albert Canyon', SSW of 'Albert Mesa' and E of 'Albert Lake'

DISTRICT I 1625 N. Fench Or., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Instructions on back Submit to Appropriate District Office

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St Francis Dr. Santa Fe, NM 87504-2088

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

FD. 3 1/4" BC 1957 B L.M.

2643.68' (M)

☐ AMENDED REPORT

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

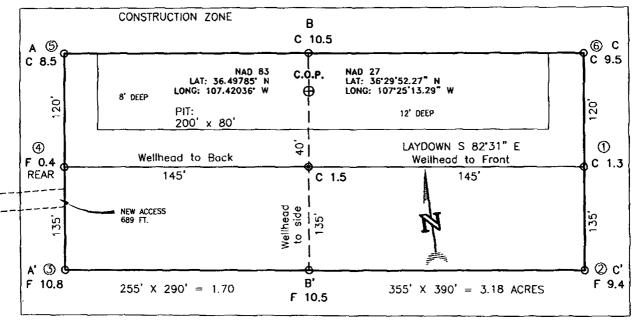
11 Bottom Hole Location If Different From Surface or lot no. Section Township Range Lot lide Feet from the North/South line Feet from the East/West line County Dedicated Acres 13 Joint or Infall 14 Consolidation Code 15 Order No. NO ALLOWABLE WILL BE ASSICNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATION OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICATION interest in the lond including the proposed bottom hole location or her infall this arganization either own a we interest or unleased mireral interest in the lond including the proposed bottom hole location or her infall this expension on owner of such mineral or work interest, or to a voluntary pooling agreement or a compulsory pooling ag	¹ API	¹ API Number ² Pool Code							,			
*** OPERATOR Name** ***XTO ENERGY INC.** ***IO ENERGY INC.** ***IO SECTION 10 minus 12	*Property Co	xde				^a Property	Name			• Well Number		
TO ENERGY INC. 10 Surface Location or lot no Section Township Range Lot itin Feet from the North/South line Feet from the 2255 WEST RIO ARRI 11 Bottom Hole Location If Different From Surface or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/Meet line County 11 Bottom Hole Location If Different From Surface or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/Meet line County 12 South or Infill 12 County 13 Joint or Infill 14 Consolidation Code 14 County 14 Consolidation Code 15 County 15 Company Infile South Infile So		ĺ				BREECH	1 C	120				
10 Surface Location or lot no Section Township Range Lot lide Feet from the 1180 SOUTH 2255 WEST RIO ARRI 1180 SOUTH 2255 WEST	7 OGRID No					^a Operator	Name			⁹ Elevation		
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"Gonusidation Code "Gonus Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Township Range Lot Idn Feet from the Range Ran	JL or lot no	1		1	Lot Idn			l .	1 -	1		
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Dedicated Acres 3 Joint or Infall 1" Consolidation Code 1" Order No.				"Botte	om Hole	Location	If Different Fr	om Surface				
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATION OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICATION Interest of the best of my knowledge and that this operation either owns a we including the proposed bottom hole location or be right to drill the well of this location present or a consultance of the control of the con	Jt. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICATION I hereby certify that the information contained her is true and complete to the best of my knowledge belief, and that this organization either owns a we inferent or undessed mineral interest in the inno including the proposed bettern heliciotism, or horizontal with an owner of such or mineral or work interest, or to a voluntary pooling agreement or a compalisory pooling agreement or a	Dedicated Acres	s	13 j	oint or Infill	L	14 Consolidation (Code	15 Order No.	<u> </u>			
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICATION I hereby certify that the information contained her is true and complete to the best of my knowledge belief, and that this organization either owns a we inferent or undessed mineral interest in the inno including the proposed bettern heliciotism, or horizontal with an owner of such or mineral or work interest, or to a voluntary pooling agreement or a compalisory pooling agreement or a			[
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3 1/4" BC. SURFACE: LAT: 36.49763' N. (NAD 83) LONG: 107.42039' W. (NAD 83) LAT: 3629'51.49" N. (NAD 27) LONG: 107.25'13.42" W. (NAD 27) LONG: 107.25'13.42" W. (NAD 27)	NO ALLOV	MARLE M								CONSOLIDAT		
I hereby certify that the information contained her is true and complete to the best of my knowledge belief, and that this organization either owns a we interest or unlessed mineral interest in the land including the proposed bottom hole location or har right to drill this well at this location present to controct with an owner of such a mineral or work interest, or to a voluntary pooling agreement or a compulsory pooling order heretolore entered by the division. SURFACE: LAT: 36.49763* N. (NAD 83) LONG: 107.42039* W. (NAD 83) LAT: 36'29'51.49* N. (NAD 27) LONG: 107'25'13 42" W. (NAD 27) Date of Surrey September 23, 2008 Date of Surrey Signature and Supervision, and that the same is true accoract to the best of my knowledge and belief.			OK A 1	1011-317	TINDAND	ONIT HAS E	SEEN APPROVE	U BT INE U	VISION			
I hereby certify that the information contained her is true and complete to the best of my knowledge belief, and that this organization either owns a we interest or unlessed mineral interest in the land including the proposed bottom hole location or har right to drill this well at this location present to controct with an owner of such a mineral or work interest, or to a voluntary pooling agreement or a compulsory pooling order heretolore entered by the division. SURFACE: LAT: 36.49763* N. (NAD 83) LONG: 107.42039* W. (NAD 83) LAT: 36'29'51.49* N. (NAD 27) LONG: 107'25'13 42" W. (NAD 27) Date of Surrey September 23, 2008 Date of Surrey Signature and Supervision, and that the same is true accoract to the best of my knowledge and belief.		ì						17 (DEDATOR	CERTIFICATIO		
is true and complete to the best of my knowledge belief, and that this organization either owns a we interest or unlessed mineral interest in the land including the proposed bottom hole location for the right to drill this well at this location pursuant to controct with an owner of such a mineral or work interest, or to a voluntity pooling operated or a compulsory pooling order heretolore entered by the distance. SURFACE: LAT: 36.49763* N. (NAD 83) LONG: 107.42039* W. (NAD 83) LAT: 36'29'51.49* N. (NAD 27) LONG: 107'25'13.42* W. (NAD 27) SEPTEMBER 23, 2008 2255' SEPTEMBER 23, 2008 SEPTEMBER 23, 2008 SEPTEMBER 23, 2008 SEPTEMBER 23, 2008 September 25, 300 Se							ł	ŀ	_	-		
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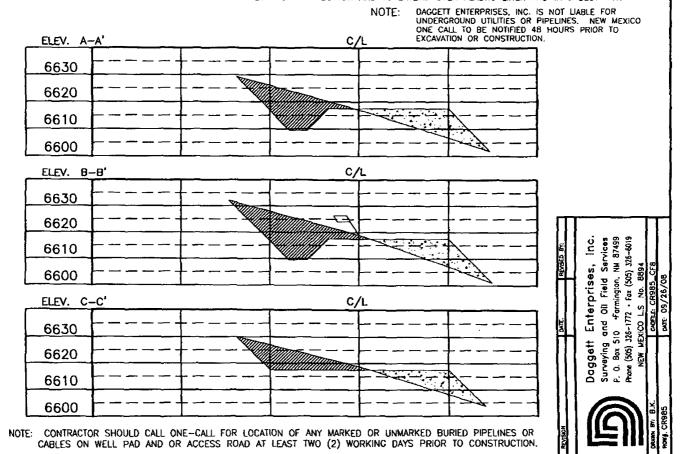
Certificate Number

XTO ENERGY INC.
BREECH C No. 120, 1180 FSL 2255 FWL
SECTION 12, T26N, R6W, N.M.P.M., RIO ARRIBA COUNTY, N.M.
GROUND ELEVATION: 6619' DATE: SEPTEMBER 23, 2008

NAD 83 LAT. = 36.49763° N LONG. = 107.42039° W NAD 27 LAT. = 36'29'51.49" N LONG. = 107'25'13.42" W



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.



Breech C #120 Below Grade Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the central Cereza Canyon region of the San Juan Basin near the upper reaches of Dogie Canyon and atop Ensenada Mesa near Albert Lake. The predominant geologic formation is the San Jose Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the San Jose Formation lies at the surface and overlies the Nacimiento Formation. Thickness of the San Jose ranges from 200 to 2700 feet, thickening from west to east across the region of interest (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the San Jose Formation are between 0 and 2700' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows north, toward the San Juan River. Little specific hydrogeologic data is available for the San Jose Formation system, but "numerous wells and springs used for stock and domestic supplies" draw their water from the San Jose Formation (Stone et al., 1983).

The prominent soil type(s) at the proposed site are entisols and aridisols, which are defined as soils exhibiting little to no profile development (www.emnrd.state.nm.us). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area and prohibits effective recharge to the underlying aquifers.

Regional weather further prohibit active recharge. The climate is arid, averaging just over 12 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

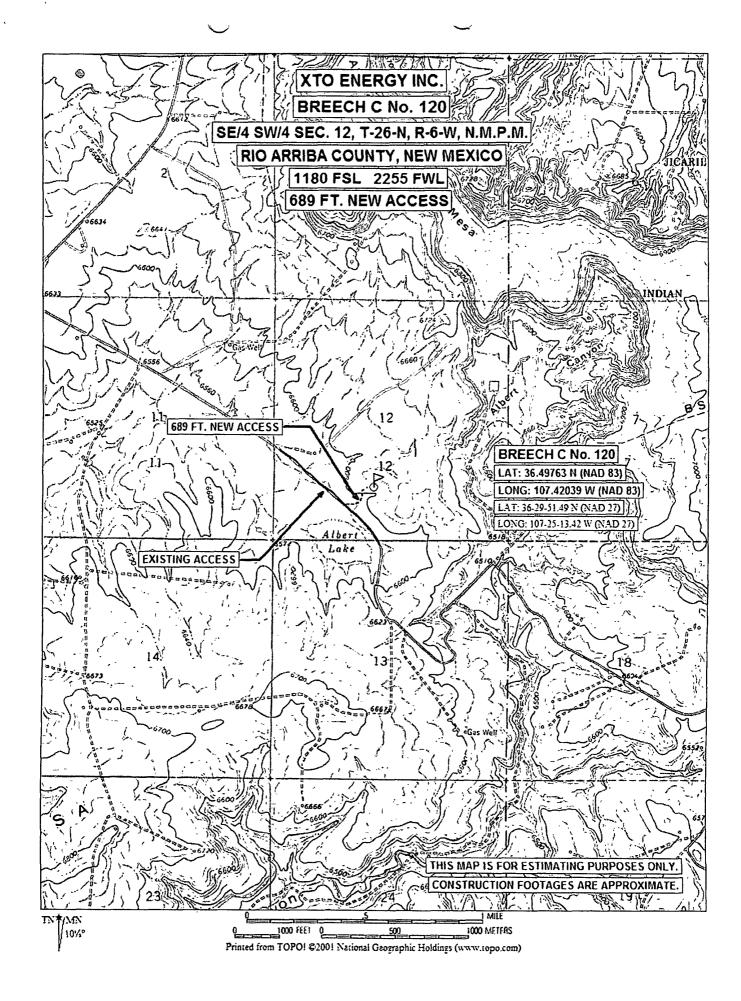
Site Specific Hydrogeology

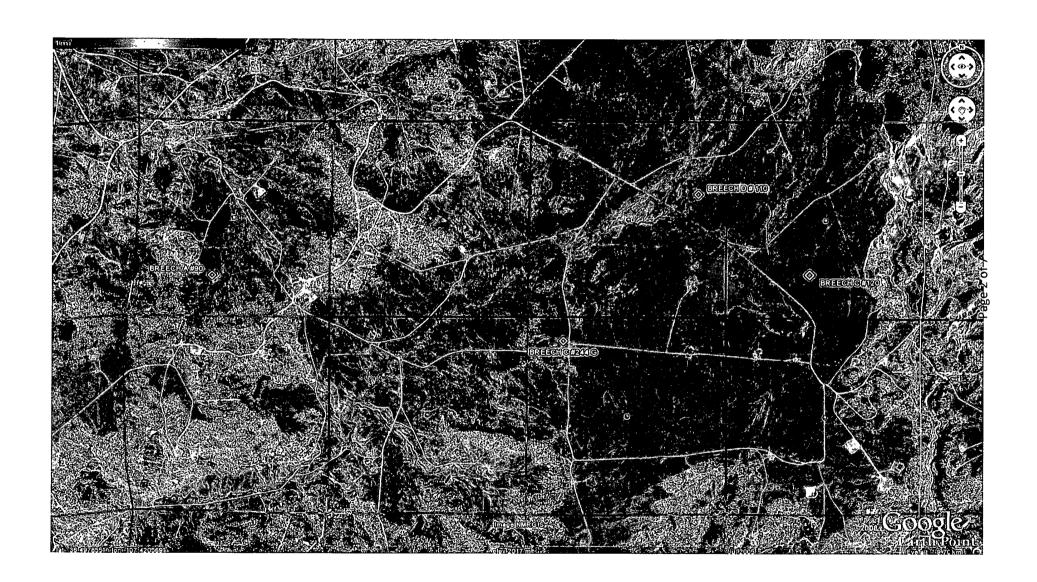
Depth to groundwater is estimated to be greater than 100'. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography, proximity to adjacent channels & spring features at similar elevations nearby are also taken into consideration. Additionally, three test wells were drilled in this area, confirming groundwater is greater than 115' deep.

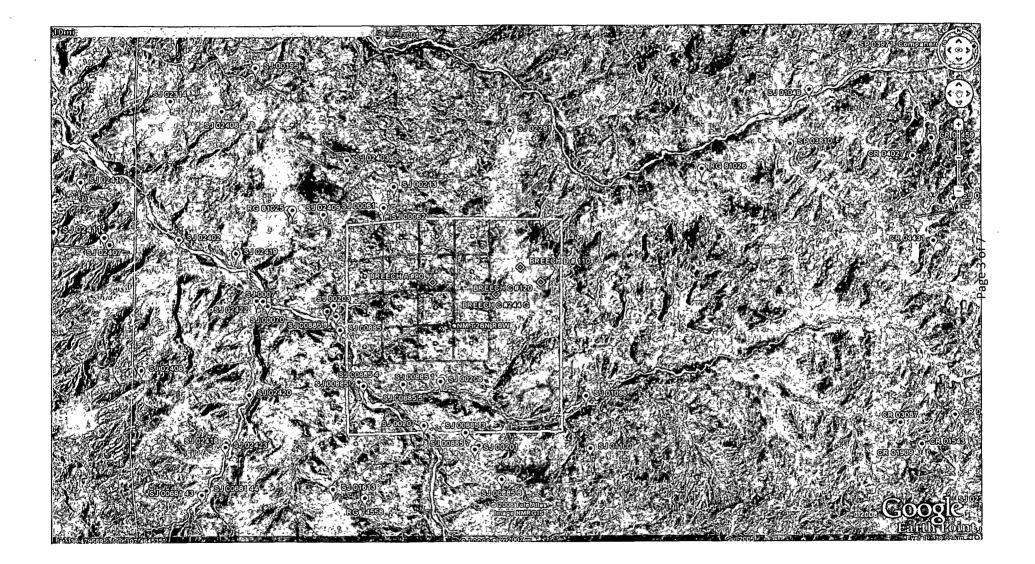
Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone & shale. "Extensive intertonguing" of different members of this formation is reported. (Stone et al., 1983). Porous sandstones form the principal aquifers, while relatively impermeable shales and mudstones form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the San Jose Formation at depths greater than 100 feet and thicknesses of the aquifer can be up to several hundred feet (USGS, Groundwater Atlas of the US) (Stone et al., 1983).

The site in question is located on relatively flat ground on Ensenada Mesa, between Dogie and Albert Canyons at an elevation of approximately 6613 feet and approximately 5.6 miles east of the main Largo Canyon wash channel, the nearest significant watercourse. This site drains to Largo Canyon via Albert Canyon and Dogie Canyon. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the predominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries composed of alluvium are evident on the attached aerial image. Groundwater is expected to be shallow within Largo and Blanco Canyons and within major tributary systems

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing locations of test wells and depth to groundwater in those wells is also attached.







New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 08/06/2008

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

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	WATER COLUMN REPORT 08/12/2008 (quarters are 1=NW 2=NE 3=SW 4=SE)
POD Number	(quarters are biggest to smallest) Tws Rng Sec g g g Zone X Y Well Water Column

No Records found, try again

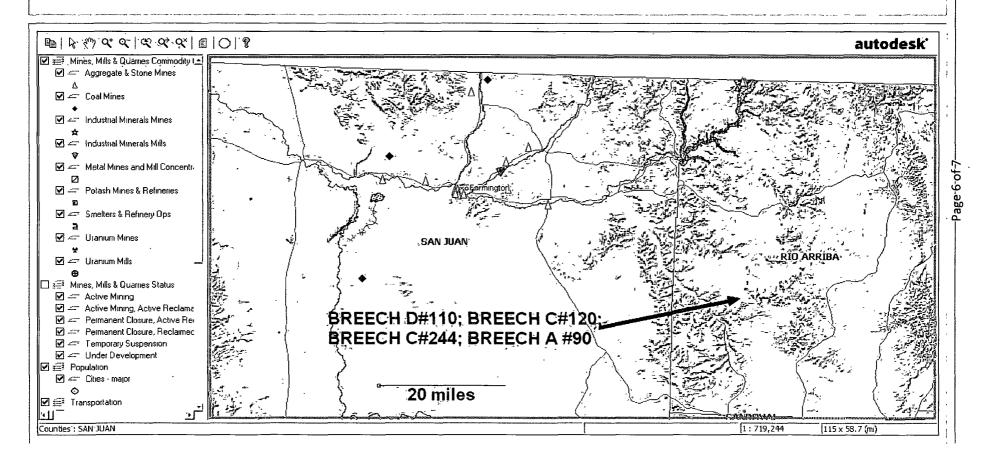
,	Fownship: 27N	Range: 07W	Sections:		
NA	D27 X:	Y:	Zone:	Search	Radius:
County:	Basin	n:		Number:	Suffix:
Owner Name:	(First)	(Last)		ONon-Do	omestic ODomestic OAll
-	POD / Surface Dat	a Report Avg [Depth to Water F	Report Water	Column Report
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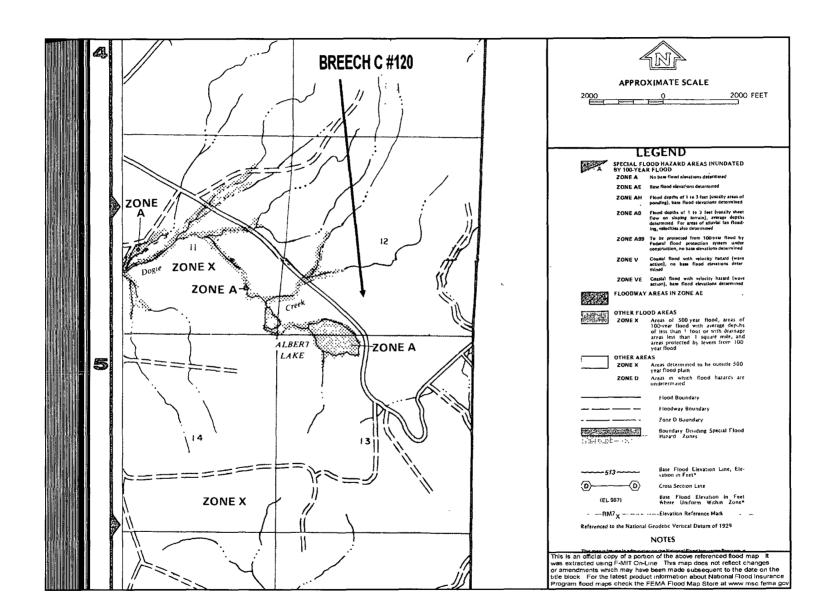
WATER COLUMN REPORT 08/04/2008

	(quarter	s are	e 1=1	WM	2=NE	3=SW 4=	SE)					
	(quarters are biggest to smallest)						Depth	Depth	Water	(in feet)		
POD Number	Tws	Rng	Sec	q	рp	Zone	x	Y	Well	Water	Column	
RG 81025	27N	07W	35	4	3 3				560	465	95	
SJ 00195	27N	07W	15	2					1633	500	1133	
SJ 02314	27N	07W	17	3	3				355	320	35	
SJ 02408	27N	07W	21	2	1 3				400	300	100	
SJ 03274	27N	07W	35	3	4 4				450			
SJ 02404	27N	07W	35	4	3 3				550	250	300	

Record Count: 6

Mines, Mills and Quarries Web Map







To Mark Kelly,

CC

bcc

Subject Breech C #120 Well Site

RE: Breech C #120

Sec. 12 (N), T26N-R6W, Rio Arriba County

Dear Mr. Kelly,

This submittal is pursuant to Rule 19.15.17.13 requiring operators to notify surface owners of on site burial of temporary pits. XTO Energy Inc. (XTO) is hereby providing written documentation of our intention to close the temporary pit associated with the aforementioned location by means of in place burial.

Should you have any questions or require additional information please feel free to contact me at your earliest convenience (505) 333-3100.

Malia Villers
Permitting Tech.
XTO Energy Inc.
505-333-3100
Direct: 505-333-3698
malia_villers@xtoenergy.com

XTO Energy Inc. San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction of temporary pits on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan

- 1. XTO will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public heath and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the well site prior to construction of the temporary pit. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 4. XTO shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. XTO shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- XTO shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. XTO will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used when possible. XTO will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. XTO will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some areas.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.

XTO Energy Inc. San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance of temporary pits on XTO Energy Inc. locations. This is XTO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan

- 1. XTO will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- XTO will conserve drilling fluids by transmitting liquids to pits ahead of the rigs whenever possible. All drilling fluids will be disposed at Basin Disposal Inc, Permit # NM-01-005.
- 3. XTO will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner integrity is compromised, or if any penetration of the liner occurs above the liquid surface, then XTO shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid level, XTO shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. XTO shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. XTO shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19 15 3 116 NMAC shall be reported to the division's Environmental Bureau Chief.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pits slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. XTO shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from pits surface. An oil absorbent boom will be stored on-site until closure of pit.
- Only fluids generated during the drilling or workover process will be discharged into a temporary pit.
- 10. XTO will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling or workover operations, XTO will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged and logs maintained for review. XTO will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling or workover operations, XTO will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at XTO's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. XTO shall maintain at least two feet of freeboard for a temporary pit.
- 14. XTO shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling or workover rig.

XTO Energy Inc. San Juan Basin Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of temporary pits on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan:

- 1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycled, reused, or reclaimed in a manner that the Aztec Division office approves.
- 2. The preferred method of closure for all temporary pits will be on-site, in-place burial, assuming that all criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of XTO proposed closure plan using a means that provides proof of notice i.e., Certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring XTO will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
 - i. Operators Name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liver will be disposed of at a licensed disposal facility.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve appropriate solidification. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul. Disposal facility to be utilized should this method be required will be Envirotech, Permit No. NM01-0011 or IEI, Permit No. NM01-0010B.

Components	Test Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500 or background

- 9. Upon completion of solidification and testing, the pit area will be backfield with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, ponding prevention, and erosion prevention. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. Notification will be sent to OCD when the reclaimed area is seeded.
- 12. XTO shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM of Forest Service stipulated seed mixes will be used on Federal Lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.
- 13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time all wells on the pad are abandoned. The operator's information will include the following: Operators Name, Lease Name, Well Name and Number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

XTO Energy Inc. San Juan Basin Closed-Loop System Design and Construction Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction of closed-loop systems on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all closed-loop systems. A separate plan will be submitted for any closed-loop system which does not conform to this plan.

General Plan

Our closed-loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will entail an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be of sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1. Fencing is not required for an above ground closed-loop system.
- 2. It will be signed in compliance with 19.15.3.103 NMAC.

XTO Energy Inc. San Juan Basin Closed-Loop Systems Maintenance and Operating Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the operation and maintenance of closed-loop systems on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all closed-loop systems. A separate plan will be submitted for any closed-loop system which does not conform to this plan.

General Plan

The closed-loop tank will be operated and maintained; to contain liquids and solids, to aid in the prevention of contamination of fresh water sources, in order to protect public health and the environment. To attain the goal the following steps will be followed:

- 1. The liquids will be vacuumed out and disposed of at the Basin Disposal, Inc. facility (Permit Number NM01-005). An alternative if available for liquids disposal, will be to move the liquids forward to a XTO temporary pit constructed in accordance with all specifications in NMAC Rule 19.15.17 for a well yet to be drilled. All specifications, limitations, and rules within the New Mexico Administrative Code regulating this transfer of liquids will be strictly adhered to. As a third alternative, if Basin Disposal turns away the fluids because of capacity reasons, and the second transfer option is not available, XTO may elect to haul fluids to IEI (Permit Number NM01-0010B) for final disposition.
- 2. Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit Number NM01-0011) or IEI (Permit Number NM01-0010B) on a periodic basis to prevent over topping.
- 3. No hazardous waste, miscellaneous solids, waste, or debris will be discharged into, or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank
- 4. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon discovery of the compromised tank, repairs will be enacted immediately.
- 5. All of the above operations will inspected and a log will be signed and dated daily during rig operations.

XTO Energy Inc. San Juan Basin Closed-Loop System Closure Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the closure requirements of closed-loop systems on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all closed-loop systems. A separate plan will be submitted for any closed-loop system which does not conform to this plan.

General Plan

XTO will close a drying pad used for a closed-loop system within six months from the date that XTO released the drilling or workover rig. XTO will not the date of the drilling or workover rig's release on form C-105 or C-103, riled with the division, upon the well's or workover's completion.

The closed-loop tank will be closed in accordance with 19.15.17.13 NMAC. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit Number NM01-0011) or IEI (Permit Number NM01-0010B) immediately following rig operations.

All remaining liquids will be transported and disposed of at the Basin Disposal, Inc facility (Permit Number NM 01-005). As an alternative (in the event Basin Disposal refused liquids because of capacity considerations, and if proper inventory space is available for liquids transfer while meeting free board requirements), the liquids will be moved forward to a XTO temporary pit constructed in accordance with all specifications in NMAC Rule 19.15.17 for a well yet to be drilled. All specifications, limitations, and rules within the New Mexico Administrative Codes regulating this transfer of liquids will be strictly adhered to. As a third alternative, if Basin Disposal turns away the fluids because of capacity reasons, and the second transfer option is not available, XTO may elect to haul the fluids to IEI (Permit Number 01-0010B) for final disposition.

The tanks will be removed from the location as part of the rig move. At the time of well abandonment the site will be reclaimed and re-vegetated to pre-existing conditions when possible.

XTO Energy Inc. San Juan Basin Closed-Loop System Closure Plan

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