District I 1625 N. French Dr., Hobbs, NM 88240 District II

### State of New Mexico Energy Minerals and Natural Resources Department

For temporary pits, closed-loop systems, and

1301 W Grand Avenue, Artesia, NM 88210 District III 000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St Francis Dr , Santa Fe, NM 87505		Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	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.
100		osed-Loop System, Below-Grad- native Method Permit or Closure	

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.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Canyon #9F
API Number: 30-045-35289 OCD Permit Number:
U/L or Qtr/Qtr E Section 1 Township 25N Range 11W County: San Juan
Center of Proposed Design: Latitude 36.43217 Longitude 107.96147 NAD: ☐1927 🔀 1983
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment
Note   Pett: Subsection F or G of 19.15.17.11 NMAC   Pett: Subsection F or G of 19.15.17.11 NMAC   Permanent   Emergency   Cavitation   P&A   Lined   Unlined Liner type: Thickness   20   mil   LLDPE   HDPE   PVC   Other     String-Reinforced   Liner Seams:   Welded   Factory   Other   Volume:   bbl Dimensions:   L 200   x W 80   x D 8-12
Delow-grade tank: Subsection I of 19.15.17.11 NMAC   Volume: bbl Type of fluid: bbl Type of fluid:   Discrete fluid:
Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
s.  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, hospital,	
Chain link six feet in height two strands of harhed wire at ton (Required if located within 1000 feet of a normanent residence, school, hospital	
institution or church)	
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	
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 acceptable so	uwaa
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate di	arce strict
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads above-grade tanks associated with a closed-loop system.	or
	S □ No
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	, NO
The state of a constitution of the state of	i □ No
lake (measured from the ordinary high-water mark).  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)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	. □ No
(Applies to permanent pits)	
Winnel in a setting (seed Seed in ) of the manuscraft site. A soid of the Cotalities is	— i □ 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	— i □ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	— 3 □ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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	s □ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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.	— 3 □ No
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Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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.  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	No No No No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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.  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	□ No □ No □ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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.  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  Within the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.	No No No No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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.  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  Within the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	

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.    Hydrogeologic Report (Below-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:
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  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.    Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
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: X 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)
<ul> <li>☒ In-place Burial ☐ On-site Trench Burial</li> <li>☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)</li> </ul>
Waste 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)

Instructions: Please indentify	Closed-loop Systems That Utilize A the facility or facilities for the disposition.	bove Ground Steel Tanks or Haul-off Bins Only: (1) sal of liquids, drilling fluids and drill cuttings. Use att	9.15.17.13.D NMAC) tachment if more than two
facilities are required.  Disposal Facility Name:	Envirotech	. Disposal Facility Permit Number:	NM01-0011
Disposal Facility Name:	IEI	Disposal Facility Permit Number:	NM01-0010B
Will any of the proposed closed	d-loop system operations and associat de the information below) X No	ed activities occur on or in areas that will not be used for	or future service and operations?
Soil Backfill and Cover Re-vegetation Plan - bas	ed upon the appropriate requirements	e and operations: the appropriate requirements of Subsection H of 19.15. of Subsection I of 19.15.17.13 NMAC nts of Subsection G of 19.15.17.13 NMAC	17.13 NMAC
Instructions: Each siting crite provided below. Requests rege considered an exception which	arding changes to certain siting crite	pliance in the closure plan. Recommendations of acc ria may require administrative approval from the app Environmental Bureau office for consideration of app	ropriate district office or may be
	et below the bottom of the buried was Engineer - iWATERS database search	ste. h; USGS; Data obtained from nearby wells	Yes X No
	d 100 feet below the bottom of the bu Engineer - iWATERS database search	ried waste h; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
	feet below the bottom of the buried v Engineer - iWATERS database search	vaste. h; USGS; Data obtained from nearby wells	☐ Yes☐ No☐ NA
lake (measured from the ordina		f any other significant watercourse or lakebed, sinkholo oposed site	e, or playa Yes No
	ent residence, school, hospital, institu ification) of the proposed site; Aerial	tion, or church in existence at the time of initial application, Satellite image	ttion. ☐ Yes ☒ No
watering purposes, or within 10	000 horizontal feet of any other fresh	spring that less than five households use for domestic c water well or spring, in existence at the time of initial a ual inspection (certification) of the proposed site	
adopted pursuant to NMSA 19'	78, Section 3-27-3, as amended.	ipal fresh water well field covered under a municipal o  Written approval obtained from the municipality	rdinance Yes No
Within 500 feet of a wetland US Fish and Wildlife V	Vetland Identification map; Topograp	hic map; Visual inspection (certification) of the propos	ed site
Within the area overlying a sub - Written confirmation o	surface mine. r verification or map from the NM EN	MNRD-Mining and Mineral Division	☐ Yes 🏿 No
Within an unstable area.  - Engineering measures is Society; Topographic r		eau of Geology & Mineral Resources; USGS; NM Geo	logical Yes 🛛 No
Within a 100-year floodplain FEMA map			☐ Yes 🏻 No
by a check mark in the box, th  Siting Criteria Complian  Proof of Surface Owner  Construction/Design Pla  Construction/Design Pla  Protocols and Procedure  Confirmation Sampling  Waste Material Sampling  Disposal Facility Name a  Soil Cover Design - base  Re-vegetation Plan - base	at the documents are attached.  ce Demonstrations - based upon the a Notice - based upon the appropriate ro n of Burial Trench (if applicable) base n of Temporary Pit (for in-place buria s - based upon the appropriate require Plan (if applicable) - based upon the a g Plan - based upon the appropriate re and Permit Number (for liquids, drilling and upon the appropriate requirements and upon the appropriate requirements and upon the appropriate requirements	ppropriate requirements of 19.15.17.10 NMAC equirements of Subsection F of 19.15.17.13 NMAC equirements of Subsection F of 19.15.17.13 NMAC ed upon the appropriate requirements of 19.15.17.11 N el of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC ppropriate requirements of Subsection F of 19.15.17.13 NMAC eng fluids and drill cuttings or in case on-site closure stated of Subsection I of 19.15.17.13 NMAC of Subsection I of 19.15.17.13 NMAC ents of Subsection G of 19.15.17.13 NMAC	IMAC ments of 19.15.17.11 NMAC 3 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 Malia Villers  Date: Lo/3/11
e-mail address: malia_villers@xtoenergy.com Telephone: (505) 333-3100
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date: 6/10/2011  Title: 6/10/2011
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:
22.
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.
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  Re-vegetation Application Rates and Seeding Technique
24.
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  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location: Latitude Longitude NAD:
25.
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): Title:
Signature: Date:

e-mail address:

Telephone: \_



### **Pit Permit**

Client:	XTO Energy
Project:	Pit Permits
Revised:	12/2/2010
Prepared by:	Ashley Ager

	T 970-385		Siting Criteria	Revised:	12/2/2010		
F 970 385		5 1873	Information Shee	Prepared by:	Ashley Ager		
	API#:		NA	USPLSS:	T25N, R11W, S1E		
	Name:	(	Canyon #9F	Lat/Long:	36.43217, -107.96147		
Depth to ground	dwater:	Great	er than 100 feet	Geologic formation:	Nacimiento Formation		
Distance to continuously water	1	18.6 mile:	s E to San Juan River				
Distance to significant water lakebed, playa si	course,	of Gallegos	to 1st order tributary Wash; 4,054 feet SW Gallegos Wash				
				Soil Type:	Entisols		
Permanent residence, school, hospital, institution or church within 300'			NO				
	_			Annual Precipitation:	8.21" - Farmington; 10.41" Otis; 8.71" Bloomfield		
Domestic fresl well or spring			NO	Precipitation Notes:	no significant precipitation events on record		
Any other fresh well or spring			NO				
Within incorp			NO .	Attached Documents:	Hydrogeologic Report Figure 1: Topographic Map Figure 2: Aerial Photo		
Within o municipal fresh w			NO		Figure 3: Mines, Mills and Quarries Map Figure 4: Water Well and Surface Water Features Figure 5: Municipal Boundaries Map Figure 6: FEMA Flood Zone Map iWaters Data		
Wetland with	nin 500'		NO	Mining Activity:	None identified in the vicinity		
Within unstab	ole area		NO				
Within 100 yea	ar flood plain		NO				

DISTRICT I 1625 N. Fench Dr., Hobbs, N.M. 88240

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

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

### State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Instructions on back

Instructions on back Submit to Appropriate District Office

nit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

OIL CONSERVATION DIVISION

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

, NM 87504-2088 

AMENDED REPORT

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

		V	VELL LO	CATION	AND AC	REAGE DED	ICA7	ION PL	AT		
'AP	Number		21	Pool Code				<sup>3</sup> Pool Name			
<sup>4</sup> Property C	ode	<sup>5</sup> Property Name									
OGRID N		CANYON Operator Name								9F Elevation	
					XTO ENERG						6413'
		<del></del>	<del></del>		<sup>10</sup> Surface	Location					·
UL or lot no	Section 1	Township 25-N	Ronge 11-W		Feet from the	North/South line NORTH	Feet	from the	East/West WES		County SAN JUAN
L	<u> </u>	25-N	<del></del>	m Hole		If Different Fr	i		HL.J	<u> </u>	JAN UUAN
UL or lot no.	Section	Township	Range		Feet from the	North/South line		from the	East/West	line	County
<sup>2</sup> Dedicated Acro	AC .	113.	Joint or Infill	<del></del>	<sup>14</sup> Consolidation Co	Me	15 Or	der No.	L		<u> </u>
Debraces	23	}	Unit Granus	}		oc.	-	JEI ING.			
NO ALLO	WABLE 1					ON UNTIL ALL EEN APPROVE				EN C	ONSOLIDATED
,				<b>9</b>		CEN AFFICAL	.0 0	1 1116 01	VISION		<del></del>
FD. 2 1/2" BC 1930 G.L.O.  LOT 4  (W)  1930 G.L.O.  LOT 4  937'	1905,	N 89'55' 2638.77 LOT	SURFAC LAT: 36 LAT: 36	CE: 6.43217* 1 107.96147 25'55.4" N.		83)		I hereby ce is true and belief, and interest or including the right to dri contract wi interest, or compulsory division.  Signature  Printed Nor	rtify that the complete to that this orga unleased minuse proposed bill this well at the an owner of to a voluntar pooling order	informati the best anization eral intere- ottom hal this toca of such a ry pooling heretofor	RTIFICATION ion contained herein of my knowledge and either owns a working est in the land le location or has a tion pursuant to a mineral or working agreement or a re entered by the
FD. 2 1/2* BC 1932 G L.O.			,					i hereby certii was plotted from under my correct to the	y that the we om field notes supervision, and best of my of the supervision of the superv	ell location of actual of that th	n shown on this plat is surveys made by me he same is true and and belief.

NAD 83 XTO ENERGY INC. LAT. = 36.43217" N LONG. = 107.96147° W CANYON No. 9F, 1905 FNL 937 FWL SECTION 1, T25N, R11W, N.M.P.M., SAN JUAN COUNTY, N.M. NAD 27 LAT. = 36'25'55.4" N GROUND ELEVATION: 6413' DATE: SEPTEMBER 2, 2009 LONG. = 107°57'38.8" W В © с A (5) C 4.3 C 7.8 C 4.5 NAD 83 LAT: 36.43214° N LONG: 107.96115° W NAD 27 LAT: 36°25'55.66" N LONG: 107°57'37.91" W C.O.P.  $\oplus$ 20, PIT: 20, 8' DEEP 12' DEEP 200' x 80' 4 . 하 LAYDOWN S 21'41' E ① Wellhead to Back Wellhead to Front C 1.7 F 2.0 REAR 145 145 side F 0.6 95, 2 413 FT. NEW ACCESS ② c· Wellhead F 1.8 255' X 290' = 1.70 ACRES DRAINAGE F 7.2 В, 255' X 290' F 7.6 ORAINAGE 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. DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE: ELEV. A-A' C/L 6420 6410 6400 6390 ELEV. B-B' C/l 6420 6410 Triveying and Oil Field Services O Box 510 -Farmington, NM 87499 one (505) 326-1772 - Fox (505) 326-5019 NEW MEXICO L.S. No. 8894 6400 6390 ELEV. C-C' C/L 6420 Surveying of P. 0 Box 519 6410 6400 6390 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



2243 Main Avenue, Suite 3 Durango, Colorado 81301 T 970.385.1096 / F 970.385.1873

#### Canyon #9F

#### 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 the surficial geology (Dane and Bachman, 1965). The proposed pit location will be in the Bisti region of the San Juan Basin (Figure 1). The predominant geologic formation is the Nacimiento Formation, which underlies surface soils or is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands also occur near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones and Quaternary alluvial deposits serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). In most of the proposed area, the Nacimiento Formation lies at the surface and grades into the Animas Formation to the west. Thickness of the Nacimiento ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows regionally to the southwest, toward the San Juan River

The prominent soil types 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.

The climate is arid, averaging just over 8 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. Most recharge occurs during the winter months during snowmelt periods within the upper elevations (Western Regional Climate Center, www.wrcc.dri.edu).

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

#### **Site-Specific Hydrology**

Depth to groundwater at the site is estimated to be greater than 100 feet. 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 and springs are also taken into consideration.

Beds of water-yielding sandstone are present in the Nacimiento Formation, which are fluvial in origin and are interbedded with siltstone, shale and coal. Porous sandstones form the principal aquifers, while relatively impermeable shales form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the Nacimiento Formation at depths greater than 100 feet and thicknesses of the aquifer can be up to 3500 feet (USGS, Groundwater Atlas of the US).

The site in question is located at an elevation of approximately 6410 feet and is approximately 4,054 feet southwest of Gallegos Canyon. Broad shalely hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The closest well to the site is located 3,890 feet to the northwest and is 49 feet higher in elevation. Depth to groundwater within the well is 165 feet below ground surface. A map showing the location of wells in reference to the proposed pit location is attached. Data from existing groundwater wells suggest groundwater is greater than 100 feet at this site.

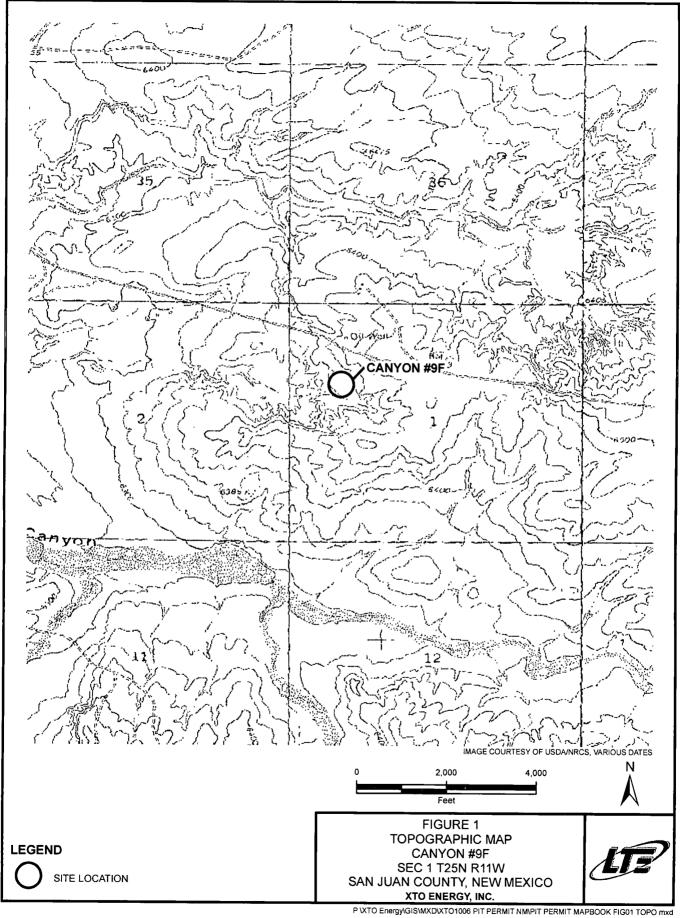
#### References

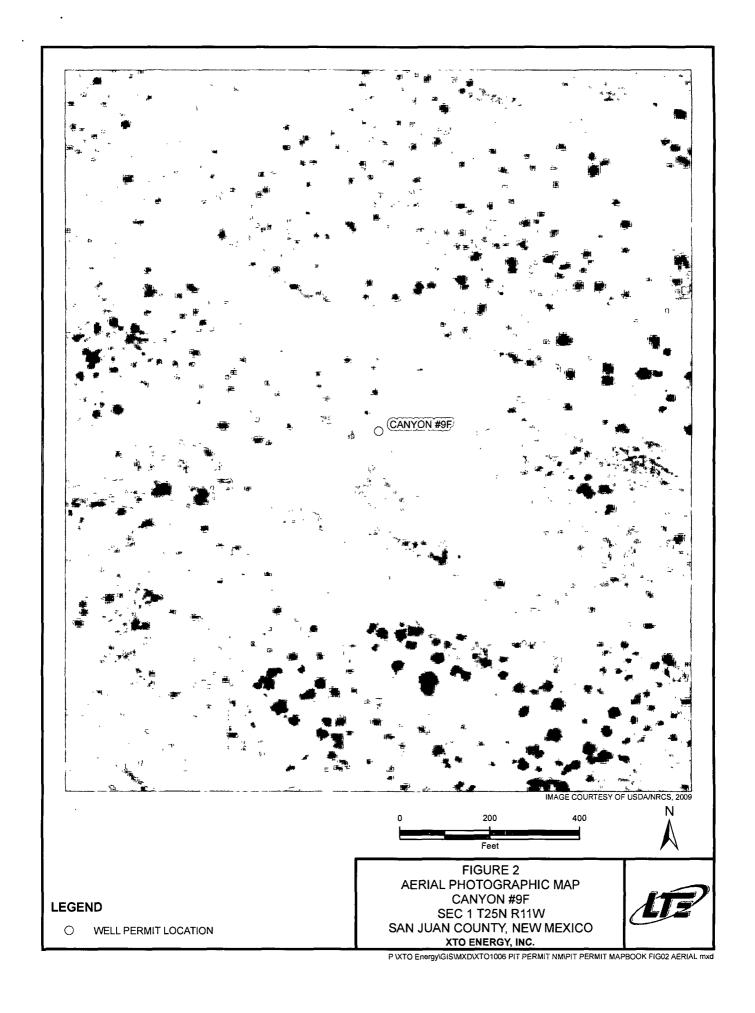
Dane, C.H. and Bachman, G. O., 1965, Geologic Map of New Mexico: U.S. Geological Survey, 1 sheet, scale 1:500,000.

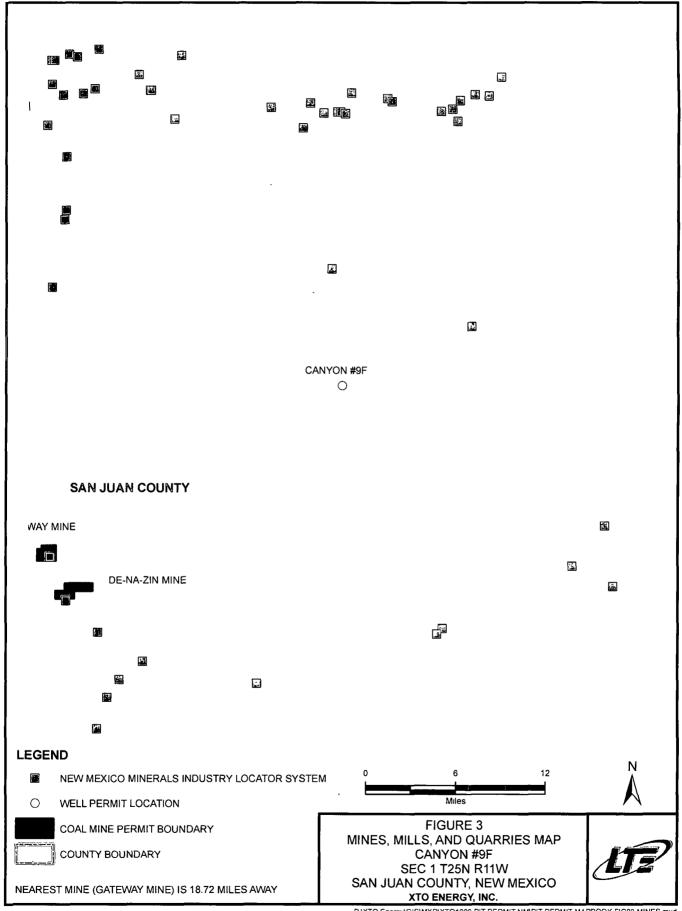
Dick-Peddie, W.A., 1993, New Mexico Vegetation – Past, Present and Future: Albuquerque, New Mexico, University of New Mexico Press, 244 p.

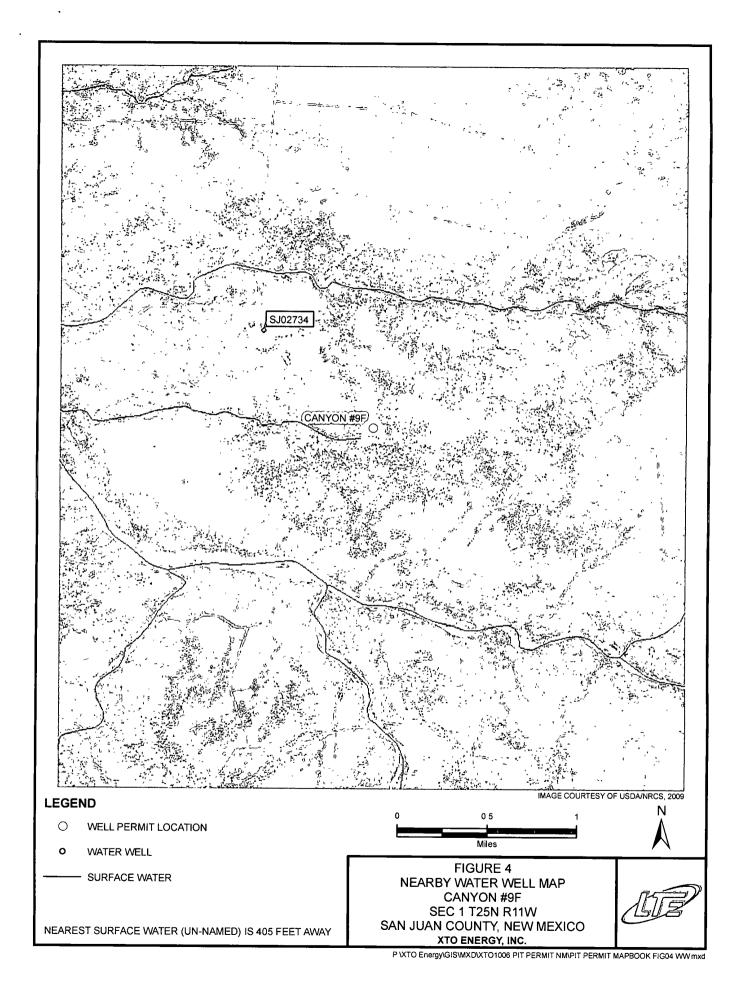
Stone, W.J., Lyford, F. P., Frenzel, P.F., Mizell, N.H. and Padgett, E.T., 1983, Hydrogeology and water resources of the San Juan Basin, New Mexico: HR-6 New Mexico Bureau of Geology and Mineral Resources Hydrology Report 6.

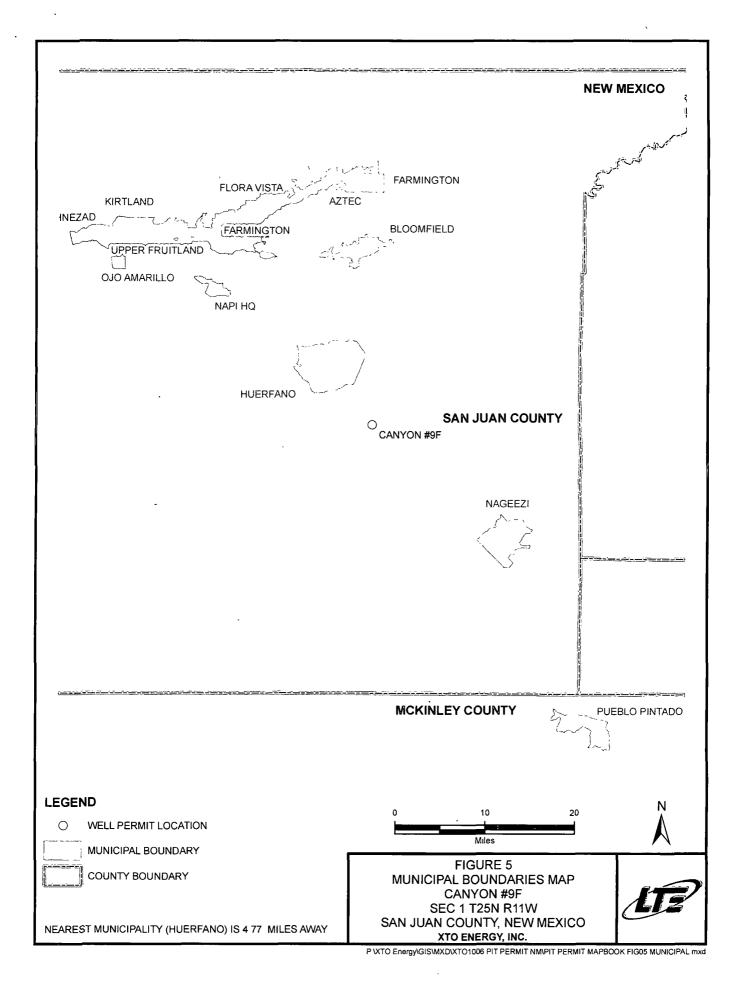
USGS, Groundwater Atlas of the United States: Arizona, Colorado, New Mexico, Utah, HA 730-C: (http://www.pubs.usgs.gov).

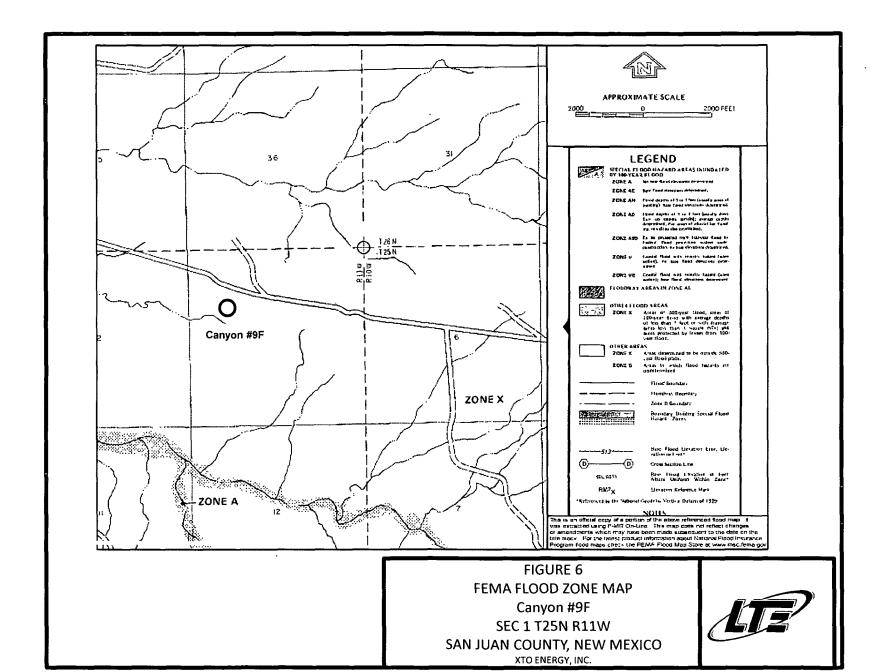














## New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

Sub QQQ Depth Depth Water
POD Number basin Use County 64 16 4 Sec Tws Rng X Y Well WaterColumn

SJ 02734 SAN SJ 2 3 4 35 26N 11W 233750 4036858\* 275 165 110

Average Depth to Water: 165 feet

Minimum Depth. 165 feet

Maximum Depth: 165 feet

**Record Count: 1** 

Basin/County Search:

Basin: San Juan

PLSS Search:

Section(s): 35

Township: 26N

Range: 11W



#### Malia Villers/FAR/CTOC 06/03/2011 02:54 PM

To Arvin Trujillo

cc bcc

Subject Canyon #9F

RE: Canyon #9F

Sec. 1 (E), T25N-R11W, San Juan County

Dear Mr. Trujillo,

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 a subsidiary of ExxonMobil

Office: 505-333-3698 Cell: 505-787-7700 Fax: 505-333-3284

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**

- 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.
- 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.
- 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.
- 2. 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.
- 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.
- 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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