Jones, Brad A., EMNRD

From: Sent: To: Cc: Subject: Kim_Champlin@xtoenergy.com Friday, February 04, 2011 10:17 AM Jones, Brad A., EMNRD Martin_Nee@xtoenergy.com; James_McDaniel@xtoenergy.com Closure Plan Approvals

Hi Brad,

Partially just checking in and partially sending a request. We are going to P&A the Canyon #17 and I need an approval on the closure plan only from the BGT permit application that was submitted to your office 01-09-2009. The API is 30-045-21508 and legals are Sec. 25A-T 25N-R 11W. If you need more information let me know.

I am also checking the status of our submitted closure plan for the Pond #1. It isn't any different in language or process than Pond #2 and to manage expenses we are planning to begin closing them at the same time. If you are needing something more or have any questions just give me a call.

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I appreciate your time on this. Thanks.

Kim Champlin XTO Energy

EHS. Admin Supervisor San Juan Division (505) 333-3100 office (505) 213-0140 fax (505) 330-8357 cell kim_champlin@xtoenergy.com



District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resources District II District III 1301 W. Grand Avenue, Artesia, NM 88210 Department District III District III 1000 Rio Brazos Road, Aztec, NM 87410 NF District IV Image: Conservation Division 1220 S. St Francis Dr., Santa Fe, NM 87505 Image: Conservation Division 2009 JAN 12 PIT 1301 M 87505	Form C-144 July 21, 2008 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.
Pit, Closed-Loop System, Below-Grade 7	Fank. or
Proposed Alternative Method Permit or Closure F	
Type of action: Existing BGT Permit of a pit, closed-loop system, below-grade tank, o Closure of a pit, closed-loop system, below-grade tank, o Modification to an existing permit Closure plan only submitted for an existing permitted or	or proposed alternative method
below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system Please be advised that approval of this request does not relieve the operator of liability should operations result in environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable go	n pollution of surface water, ground water or the
Operator: <u>XTO Energy, Inc.</u> OGRID #:	5380
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name:Canyon # 17	
API Number: 30-045-21508 OCD Permit Number:	
U/L or Qtr/Qtr <u>A</u> Section <u>25</u> Township <u>25N</u> Range <u>11W</u> Co	
Center of Proposed Design: Latitude <u>36.37701</u> Longitude <u>107.94876</u>	NAD: □1927 ⊠ 1983
Surface Owner: 🔲 Federal 🔲 State 🔲 Private 🔀 Tribal Trust or Indian Allotment	
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Ot String-Reinforced Liner Seams: Welded Factory Other Volume: bbl	
 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 wh intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
4. Image: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Steel Image: Secondary containment with leak detection Image: Visible sidewalls, liner, 6-inch lift and automatic ov Image: Visible sidewalls and liner Image: Visible sidewalls only Image: Thicknessmil Image: Liner type: Thicknessmil	natic high-level shut off, no liner
 5. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environme 	ental 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, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other Expanded metal or solid vaulted top

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

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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.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district 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 or above-grade tanks associated with a closed-loop system.

 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). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 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 	☐ Yes ⊠ No ☐ NA
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ⊠ NA
 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 	🗌 Yes 🛛 No
 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 	🗌 Yes 🔀 No
 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

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : 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:
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : 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)
13. 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 Leak Detection 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 19.15.17.11 NMAC Image: Prepage Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
<u>Proposed Closure</u> : 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
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)
15. 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) ☑ 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

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^{16.} <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Groun</u> Instructions: Please indentify the facility or facilities for the disposal of liquid facilities are required.								
Disposal Facility Name:	Disposal Facility Permit Number:							
Disposal Facility Name:								
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> 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 operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	ate requirements of Subsection H of 19.15.17.13 NMA on I of 19.15.17.13 NMAC	С						
^{17.} 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 considered an exception which must be submitted to the Santa Fe Environmen demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	he closure plan. Recommendations of acceptable sour uire administrative approval from the appropriate dist tal Bureau office for consideration of approval. Justi	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; D	Pata obtained from nearby wells	□ Yes □ No □ NA						
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; D	Pata obtained from nearby wells	□ Yes □ No □ NA						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; D	ata obtained from nearby wells	□ Yes □ No □ NA						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other s lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	significant watercourse or lakebed, sinkhole, or playa	Yes 🗋 No						
Within 300 feet from a permanent residence, school, hospital, institution, or chur - Visual inspection (certification) of the proposed site; Aerial photo; Satel		🗌 Yes 🗌 No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that I watering purposes, or within 1000 horizontal feet of any other fresh water well o - NM Office of the State Engineer - iWATERS database; Visual inspectio	r spring, in existence at the time of initial application.	🗌 Yes 🗌 No						
Within incorporated municipal boundaries or within a defined municipal fresh w adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written appr		Yes No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vi	sual 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-Mini 	ing and Mineral Division	🗌 Yes 🗌 No						
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geold Society; Topographic map 	ogy & Mineral Resources; USGS; NM Geological	Yes No						
Within a 100-year floodplain. - FEMA map		🗌 Yes 🗍 No						
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection) 	equirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC g 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 d drill cuttings or in case on-site closure standards cannot	15.17.11 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

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Operator Application Certification:	
I hereby certify that the information submitted with this application is	s true, accurate and complete to the best of my knowledge and belief.
Name (Print): Kim Champlin	Title: Environmental Representative
Signature: Kim Chambin	Date:01/02/2009
e-mail address: kim_champlin@xtoenergy.com	
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OCD Approval: Permit Application (including closure plan)	
OCD Representative Signature:	Approval Date: 2/15/11
Title: Environmental Engineer	OCD Permit Number:
	plan prior to implementing any closure activities and submitting the closure rep 60 days of the completion of the closure activities. Please do not complete this d and the closure activities have been completed.
	Closure Completion Date:
 22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. 	Alternative Closure Method D Waste Removal (Closed-loop systems only
Instructions: Please indentify the facility or facilities for where the l two facilities were utilized.	op Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: liquids, drilling fluids and drill cuttings were disposed. Use attachment if more Disposal Facility Permit Number:
Disposal Facility Name:	
	Disposal Facility Permit Number:
	ormed on or in areas that will not be used for future service and operations?
Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service of Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	ormed on or in areas that <i>will not</i> be used for future service and operations?
Were the closed-loop system operations and associated activities performed by Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service of Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ormed on or in areas that <i>will not</i> be used for future service and operations?
Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service 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 f mark in the box, that the documents are attached.	ormed on or in areas that <i>will not</i> be used for future service and operations?
Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service 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 J mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	ormed on or in areas that <i>will not</i> be used for future service and operations?
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Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service of Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the f 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)	ormed on or in areas that will not be used for future service and operations? And operations: following items must be attached to the closure report. Please indicate, by a che
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Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service 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 f 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-si 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 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with th	ormed on or in areas that will not be used for future service and operations?
Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service 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 f 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-si 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 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with th	ormed on or in areas that will not be used for future service and operations?
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Were the closed-loop system operations and associated activities perfor Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service 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 f 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 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 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with th belief. I also certify that the closure complies with all applicable closure	ormed on or in areas that will not be used for future service and operations? No and operations: following items must be attached to the closure report. Please indicate, by a che ite closure)

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distan	ces must be from th	e outer boundaries	of the Section		
ater TENNE(CO OIL COM	PANY	Leas	CANYON			17
t Letter	Section	Township		Pange	County	· · · · · · · · · · · · · · · · · · ·	
Α	25	25 NC	RTH	11 WEST	SAN	JUAN	
ud Festage Los 800		NORTH		800		EAST	
und Level Elev.	teet from the Producing f		line and Focl		feet from the		Line Desicated Acresses
6608	Daxo	ota	5	lasin D	akota	1	320 Acres
1. Outline th	e acteage dedi	cated to the	subject well by			marks on th	e plat below,
	-			•			
	oan one lease i nd royalty).	is dedicated	to the well, out	line each and i	dentify the	ownership tl	nereof (both as to working
meresta	nu royany).		. •				, ,
3. If more that	an one lease of	different ow	nership is dedic	ated to the wel	l, have the	interests of	all owners been consoli-
dated by c	ommunitization.	, unitization.	force-pooling. e	tc?			
[7] Yes	T No If	answer is "	es?' type of con	solidation	Comm		1. Varlage
	· · ·	unance 15	to, type of con	sondation	<u> </u>		
If answer	is "no." list th	e owners and	l tract descriptio	ons which have	actually be	en consolida	ated. (Use reverse side of
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sion.	ing, or otherwis	e for until a i	ion-standard uni	t, enminating s	uch interest	s, has been	approved by the Commis-
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	ł			90		1	rein is true and complete to the
	ł		· · ·	-0	<u> 800 </u>	best of m	y knowledge and belief.
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	l -	-		ł		tiame	
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	,		EXPINES 11. NQUATO F.			Position	Production Clerk
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			Client:	XTO Energy
A Lodestar Servic	e Inc	Pit Permit	Project:	Pit Permits
PO Box 4465, Duran	· ·	Siting Criteria	Revised:	12/5/2008
ru box 4403, Juran	80, 60 81302	Information Shee		Daniel Newman
V				
API#:		3004521508	USPLSS:	T25N,R11W,25A
Name:		Canyon # 17	Lat/Long:	36.37701 / -107.94876
Depth to groundwater:	· · · · · · · · · · · · · · · · · · ·	> 100'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:	23.1 mile	s south of the San Juan River		
Distance to closest	x			
significant watercourse,	3,470 fee	et west of an unnamed		
lakebed, playa lake, or		arroyo		
sinkhole:				· · · · · · · · · · · · · · · · · · ·
			Soil Type:	Entisols & Aridisols
Permanent residence,				
school, hospital,		No		
institution or church				
within 300'				}
			Annual	8.71 inches average
Domestic fresh water		· · · · · · · · · · · · · · · · · · ·	Precipitation:	
well or spring within		No	Precipitation	no significant precipatation events
500'		NU	Notes:	no significant precipatation events
Any other fresh water				
well or spring within		No		
1000'		No		
1000				
Within incorporated			Attached	
municipal boundaries		No	Documents:	
Within defined				Topo map, ground water data map, ariel
municipal fresh water		No		photo, mines and quarries map, FEMA
well field				map
Wetland within 500'		No	Mining Activity:	No .
Within unstable area		No	_	
Within 100 year flood plain	,	Zone X		
Additional Notes:				
			<u> </u>	

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Canyon # 17 Below Ground 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 northernmost Bisti region of the San Juan Basin within an area dominated by irrigated fields of the Navajo Indian Irrigation Project. The predominant geologic formation is the Nacimiento 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 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 toward the San Juan River.

The prominent soil type at the proposed site are entisols and aridisols, which are defined as soils that exhibit little to no any 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.

The climate of the region 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. 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 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 and proximity to surface hydrologic features 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 depth s 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 6,608 feet approximately 3,470 feet west of an unnamed arroyo, and 2.65 miles south 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 is expected to be shallow within Gallegos Canyon. The floor of the Gallegos Canyon is at an elevation of approximately 6,383 approximately 220 feet lower in elevation.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the locations of wells in reference to the proposed pit location is also attached. Water drops show locations of wells and the labels for each water drop indicate depth to groundwater in feet. The closest well to the site is an elevation of approximately of 6,650 feet and is located 4.19 miles to the west this well puts groundwater at 250 feet below the surface. The observations made within this report suggest that groundwater is greater than 100 feet at the proposed location.





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AVERAGE DEPTH OF WATER REPORT 11/11/2008

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							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
SJ	24N	09W 07				1	1073	1073	1073
SJ	24N	09W 27				1	515	515	515

AVERAGE DEPTH OF WATER REPORT 11/11/2008

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					<u> </u>		(Depth)	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
RG	24N	12W 06				1	100	100	100

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AVERAGE DEPTH OF WATER REPORT 11/11/2008

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							(Depth)	water in	reet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
RG	25N	10W 11				1	60	60	60
SJ	25N	10W 22				1	250	250	250

AVERAGE DEPTH OF WATER REPORT 11/11/2008

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
SJ	25N	11₩ 04				1	135	135	135

Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	(Depth Min	Water in Max	Feet) Avg
RG	25N	12W	11	С	684250	1972400	1	19	19	19
RG	25N	12W	12				1	18	18	18
RG	25N	12W	22				1	8	8	8
RG	25N	12W	23				1	8	8	8
RG	25N	12W	27	С	678500	1958950	1	50	50	50
RG	25N	12W	31	С	689100	1949800	1	30	30	30
SJ	25N	12W	01				1	210	210	210

AVERAGE DEPTH OF WATER REPORT 11/09/2008

AVERAGE DEPTH OF WATER REPORT 11/10/2008

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								(Depth)	Water in	Feet)	
•	Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg	
	SJ	26N	10W 13				1	500	500	500	
	SJ	26N	10W 25				1	500	500	500	







XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

In accordance with Rule 19.15 17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1. XTO will close below-grade tanks within the time periods provided in 19.15.17 13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19 15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15 17 11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17 17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B Soil contaminated by exempt petroleum hydrocarbons Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

XTO Energy Inc San Juan Basın (Northwest New Mexico) General Closure Plan For Below-Grade Tanks Page 2

analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg, total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg, the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

- 8 If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19 15.1.19NMAC as appropriate
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material, construct a division prescribed soil cover; recontour and re-vegetate the site.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - I. Operator's name
 - II. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. 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.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will 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 divisionapproved methods. BLM or 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.

XTO Energy Inc. San Juan Basın (Northwest New Mexico) General Closure Plan For Below-Grade Tanks Page 3

14 All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank Closure report will be filed on form C-144 and incorporate the following

- 1. Proof of closure notice to division and surface owner;
- 11 Details on capping and covering, where applicable,
- iii. Inspection reports,
- iv. Confirmation sampling analytical results;
- v Disposal facility name(s) and permit number(s);
- vi. Soil backfilling and cover installation;
- vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
- viii. Photo documentation of the site reclamation

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks

In accordance with Rule 19.15 17.11 NMAC the following information describes the design and construction of below-grade tanks on XTO Energy Inc (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment
- 2. XTO will post a well sign, in compliance with 19 15.3 103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. 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.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and '4" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks Page 2

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bottom will be elevated a minimum of 6" above the underlying ground surface and the belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

- 9 XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows (See attached drawing)
- 10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19 15 17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A (See attached drawing).
- 11. The general specifications for design and construction are attached.



XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks

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

General Plan

- XTO will operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.
- 2. XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
 - 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),
 - Well Name API # Sec, Twn., Rng. XTO Inspector's name Inspection date and time Visible tears in liner Visible signs of tank overflow Collection of surface run on Visible layer of oil Visible signs of tank leak Estimated freeboard
- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- 6. XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks Page 2

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notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the below-grade tank. If an existing below-grade tank does not meet current requirements of Paragraphs 1-4 of Subsection I of 19.15.17.11 NMAC the tank will be modified or retrofitted to comply. If compliance can not be achieved XTO will implement the approved closure plan

Well Nam	ne:	. <u></u>			API No.:			
egals	Sec:		Township:		Range:		· · ·	
XTO Inspector's Name	Inspection Date	Inspection Time	Any visible liner tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer of oil (Y/N)	Any visible signs of a tank leak (Y/N)	Freeboar Est. (ft)
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