District II       Energy Minerals and District II         1301 W. Grand Avenue, Artesia, NM 88210       Depa         District III       0ił Conservation         1000 Rio Brazos Road, Aztec, NM 87410       1220 South State	ew Mexico ad Natural Resources rtment ation Division St. Francis Dr. NM 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         Proposed Alternative Method Period         Type of action:       □ Permit of a pit, closed-loop system         Existing BGT       □ Closure of a pit, closed-loop system         Modification to an existing period       □ Closure plan only submitted for         below-grade tank, or proposed alternative method       Instructions: Please submit one application (Form C-144) per indition	m, Below-Grade 7 ermit or Closure F tem, below-grade tank, o stem, below-grade tank, mit r an existing permitted or vidual pit, closed-loop system	<u>Plan Application</u> or proposed alternative method or proposed alternative method r non-permitted pit, closed-loop system, <i>em, below-grade tank or alternative request</i>
Please be advised that approval of this request does not relieve the operator of liabil environment. Nor does approval relieve the operator of its responsibility to comply         I.         Operator:      XTO Energy, Inc         Address:      382 County Road 3100, Aztec, NM 87410         Facility or well name:      Hun Ne Pah #1         API Number:      30-045-21214       OC         U/L or Qtr/Qtr       Section       Township      SN         Center of Proposed Design:       Latitude      36.41779      L         Surface Owner:       Federal       State       Private       Tribal Trust or Indian All	With any other applicable ge OGRID #: D Permit Number: Range11WCon ongitude107.99693	5380
<ul> <li>2.</li> <li>Pit: Subsection F or G of 19.15.17.11 NMAC</li> <li>Temporary: Drilling Workover</li> <li>Permanent Emergency Cavitation P&amp;A</li> <li>Lined Unlined Liner type: Thicknessmil LLDPE</li> <li>String-Reinforced</li> <li>Liner Seams: Welded Factory Other</li> </ul>		
3.         Closed-loop System:       Subsection H of 19.15.17.11 NMAC         Type of Operation:       P&A         Drilling a new well       Workover or Drilling         intent)       Drying Pad         Above Ground Steel Tanks       Haul-off Bins         Lined       Unlined         Liner type:       Thickness         Liner Seams:       Welded		
	6-inch lift and automatic or ole sidewalls, vaulted, autor	verflow shut-off matic high-level shut off, no liner
<ul> <li><u>Alternative Method</u>:</li> <li>Submittal of an exception request is required. Exceptions must be submitted</li> </ul>	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

7.

8

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.

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 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.

<ul> <li>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	🗌 Yes 🛛 No
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ⊠ No ☐ NA
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No ⊠ NA
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	Yes 🛛 No
<ul> <li>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.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🔀 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🖾 No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🛛 No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🛛 No

	y Pits, Emergency Pits, and Below-grade Tank s: Each of the following items must be attached		
⊠ Hydro □ Hydro ⊠ Siting	ogeologic Report (Below-grade Tanks) - based up ogeologic Data (Temporary and Emergency Pits) g Criteria Compliance Demonstrations - based up gn Plan - based upon the appropriate requirements	- based upon the requirements of Paragraph on the appropriate requirements of 19.15.17.	(2) of Subsection B of 19.15.17.9 NMAC
🛛 Closu	ating and Maintenance Plan - based upon the app are Plan (Please complete Boxes 14 through 18, in 7.13 NMAC		uirements of Subsection C of 19.15.17.9 NMAC
Previou	usly Approved Design (attach copy of design)	API Number: o	r Permit Number:
	p Systems Permit Application Attachment Chess: Each of the following items must be attached		
☐ Geole ☐ Siting ☐ Desig ☐ Opera ☐ Closu	ogic and Hydrogeologic Data (only for on-site cl g Criteria Compliance Demonstrations (only for gn Plan - based upon the appropriate requirement rating and Maintenance Plan - based upon the app ure Plan (Please complete Boxes 14 through 18, i 7.13 NMAC	on-site closure) - based upon the appropriate ts of 19.15.17.11 NMAC propriate requirements of 19.15.17.12 NMAC	requirements of 19.15.17.10 NMAC
Previou	usly Approved Design (attach copy of design)	API Number:	
Previou	usly Approved Operating and Maintenance Plan	API Number:	(Applies only to closed-loop system that use
above grou	nd steel tanks or haul-off bins and propose to imp	plement waste removal for closure)	
Instructions attached. Hydri Siting Clima Certin Dike Leak Liner Quali Opera Freet Nuisa Emer Oil F Goil F	t Pits Permit Application Checklist: Subsection s: Each of the following items must be attached rogeologic Report - based upon the requirements g Criteria Compliance Demonstrations - based up atological Factors Assessment fied Engineering Design Plans - based upon the a Protection and Structural Integrity Design - base Detection Design - based upon the appropriate re r Specifications and Compatibility Assessment - I ity Control/Quality Assurance Construction and D aating and Maintenance Plan - based upon the app board and Overtopping Prevention Plan - based u ance or Hazardous Odors, including H <sub>2</sub> S, Prevent regency Response Plan "ield Waste Stream Characterization itoring and Inspection Plan ure Plan - based upon the appropriate requiremen <u>Closure:</u> 19.15.17.13 NMAC	d to the application. Please indicate, by a ch of Paragraph (1) of Subsection B of 19.15.17 pon the appropriate requirements of 19.15.17.11 NMA appropriate requirements of 19.15.17.11 NMAC based upon the appropriate requirements of 19.15 based upon the appropriate requirements of 1 Installation Plan propriate requirements of 19.15.17.12 NMAC pon the appropriate requirements of 19.15.17.12 NMAC pon the appropriate requirements of 19.15.17.12 NMAC	9 NMAC 10 NMAC AC 5.17.11 NMAC 9.15.17.11 NMAC 2.11 NMAC
Instructions     Type:   D     D   A	s: Please complete the applicable boxes, Boxes Drilling Deriver Demergency Cavita Alternative losure Method: Waste Excavation and Remo Waste Removal (Closed-loo On-site Closure Method (Om In-place Burial	ition 🗌 P&A 🔲 Permanent Pit 🖂 Below	y-grade Tank [] Closed-loop System
closure plan	avation and Removal Closure Plan Checklist: n. Please indicate, by a check mark in the box, a cols and Procedures - based upon the appropriate irmation Sampling Plan (if applicable) - based up osal Facility Name and Permit Number (for liquid Backfill and Cover Design Specifications - based egetation Plan - based upon the appropriate requi Reclamation Plan - based upon the appropriate re	that the documents are attached. e requirements of 19.15.17.13 NMAC bon the appropriate requirements of Subsection ds, drilling fluids and drill cuttings) upon the appropriate requirements of Subsect rements of Subsection I of 19.15.17.13 NMA	on F of 19.15.17.13 NMAC ction H of 19.15.17.13 NMAC C

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids					
facilities are required.	,				
Disposal Facility Name:					
Disposal Facility Name:	Disposal Facility Permit Number:				
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information below) No	occur on or in areas that will not be used for future served	vice and operations?			
Required for impacted areas which will not be used for future service and operation         Soil Backfill and Cover Design Specifications based upon the appropriate Revegetation Plan - based upon the appropriate requirements of Subsection         Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 NMA n I of 19.15.17.13 NMAC	C			
<sup>17.</sup> <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. 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. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.					
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Database search; USGS	ata 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; Da	ata 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; Database search; USG	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	ignificant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No			
Within 300 feet from a permanent residence, school, hospital, institution, or churc - Visual inspection (certification) of the proposed site; Aerial photo; Satelli		🗌 Yes 🗌 No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	🗌 Yes 🗌 No			
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approximation or verification from the municipality.</li> </ul>	-	🗌 Yes 🗌 No			
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual inspection (certification) of the proposed site	🗌 Yes 🗌 No			
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Minin	ng and Mineral Division	🗌 Yes 🗌 No			
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geolo Society; Topographic map</li> </ul>	gy & Mineral Resources; USGS; NM Geological	🗌 Yes 🗌 No			
Within a 100-year floodplain. - FEMA map		🗌 Yes 🗌 No			
<ul> <li>18.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of a by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements and construction/Design Plan of Burial Trench (if applicable) based upon the appropriate of a drying Protocols and Procedures - based upon the appropriate requirements of 19.</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection</li> </ul>	equirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19. 15.17.13 NMAC equirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cann-	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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Operation Certification:           I hereby certify due the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.           I hereby certify due the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.           Signature:	19.		
Name (Print):       Kim Champlin       Title:       Environmental Representatives         Signature:       Him Champlin@istemergy.com       Telephone:       (305) 333-3100         COD Approval:       Permit Application (including glosure plan)       Closure Plan (otly)       OCD Conditions (see attachment)         OCD Representative Signature:	<b>Operator Application Certification:</b>		
Signature:	I hereby certify that the information submitted with this application is true,	accurate and complete to	the best of my knowledge and belief.
e-mail address	Name (Print): Kim Champlin	Title:	Environmental Representative
e-mail address	Signature: Kim Champlin	Date:	01/02/2009
QCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         Approval Date:		Telephone:	(505) 333-3100
QCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         Approval Date:			
Title:       Environmental       OCD Permit Number:         "It       Course Report (required within 60 days of closure completion):       Subsection K of 19.15.17.13 NMAC         Instructions:       Operators are required to bhain an approved closure plan prior to implementing any closure activities and out-out-plate this section of the closure report.         The closure report is required to be submitted to the division within 60 days of the completion of the closure activities and been completed.         """       Closure Completion Date:         """       Closure Report Reacting Maste Removal       On-Site Closure Method       Waste Removal (Closed-loop systems only)         If different from approved plan, please explain.       """       """         """       Closure Report Reacting Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:         Instructions:       Place indication of pacifities for where the liquids, drilling fluids and drill cutings were disposed. Use attachment if more than to facilitate were autilized.         Disposal Facility Name:	OCD Approval: Permit Application (including closure plan)		
II.         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 a beam many proved closure plan prior to implementing any closure activities have been completed.         Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Closure Completion Date:         Closure Report Regarding Waste Removal       On-Site Closure Method         If different from approved plan, please explain.         The closure set indentify the facility or facilities for where the liquids, drilling fluids and drill curtings 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:         Site Rechards complication to be used for future service and operations?       Site Rechards complication Rates and Seeding Technique         Start Report Attachment Coexiliation       Besons facility Permit Number:       Site Rechards complication Rates and Seeding Technique         Start 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 disticated for mylicatin Rates and Seeding Technique <td></td> <td></td> <td> Approval Date: <u>03/72/14</u></td>			Approval Date: <u>03/72/14</u>
Closure Report (required within 60 days of closure completion):       Subscription:       Subschi:       Subscription: <t< td=""><td>Title: Environmental Engineer</td><td>OCD Permit Nur</td><td>nber:</td></t<>	Title: Environmental Engineer	OCD Permit Nur	nber:
21.         Closure Method:         Waste Excavation and Removal       On-Site Closure Method       Alternative Closure Method       Waste Removal (Closed-loop systems only)         11       Glosure 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:	<u>Closure Report (required within 60 days of closure completion)</u> : Subse Instructions: Operators are required to obtain an approved closure plan p The closure report is required to be submitted to the division within 60 day	prior to implementing any ys of the completion of th the closure activities hav	y closure activities and submitting the closure report. e closure activities. Please do not complete this e been completed.
Closure Method:       Naste Excavation and RemovalOn-Site Closure MethodAlternative Closure MethodWaste Removal (Closed-loop systems only)         If different from approved plan, please explain.			
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:	Closure Method: Waste Excavation and Removal On-Site Closure Method A	Iternative Closure Metho	d 🗌 Waste Removal (Closed-loop systems only)
Disposal Facility Name: Disposal Facility Permit Number:	Closure Report Regarding Waste Removal Closure For Closed-loop Sy Instructions: Please indentify the facility or facilities for where the liquid		
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:       No         Site Reclamation (Photo Documentation)       Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique	Disposal Facility Name:	Disposal Facility	Permit Number:
□ 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)         □ Di 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	Disposal Facility Name:	Disposal Facility	Permit Number:
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.         P 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 (required for on-site closure)         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         Ste Reclamation (Photo Documentation)         On-site Closure Location: Latitude         Longitude       NAD: [1927] 1983         25         Operator Closure Certification:         I hereby certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.         Name (Print):			ot be used for future service and operations?
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 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):	<ul> <li>Site Reclamation (Photo Documentation)</li> <li>Soil Backfilling and Cover Installation</li> </ul>	perations:	
mark in the box, that the documents are attached.         Proof of Closure Notice (surface owner and division)         Proof of Closure 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:         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:		ing itans must be attack	ad to the closure report Plags in diagta by a check
Site Reclamation (Photo Documentation)       NAD: 1927 1983         On-site Closure Location: Latitude       Longitude       NAD: 1927 1983         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:	<ul> <li>mark in the box, that the documents are attached.</li> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure)</li> <li>Plot Plan (for on-site closures and temporary pits)</li> <li>Confirmation Sampling Analytical Results (if applicable)</li> <li>Waste Material Sampling Analytical Results (required for on-site clo</li> <li>Disposal Facility Name and Permit Number</li> <li>Soil Backfilling and Cover Installation</li> </ul>		eu io ine ciosure report. Tieuse inuicuie, by a check
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: Date: Date:	Site Reclamation (Photo Documentation)	ongitude	
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):			INAD. [] 1927 [] 1983
Signature: Date:	Operator Closure Certification: I hereby certify that the information and attachments submitted with this clo		
	Name (Print):	Title:	
e-mail address: Telephone:	Signature:	Date:	
	e-mail address:	Telephone: _	

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

		All distan	ces must be i	from the outer	<b>boundaries</b> of the Section	08		
Operator TENN	ECO OIL COMP.	ANY		Leose HU	N - NE - PAH		Well No.	1
Unit Letter	Section 10	Township	NORTH	Ronge	WEST County SA	N JUAN		
Actual Footage L 1800	ocation of Well: feet from the	NORTH	line and	800	feet from the	WEST	line	
Ground Level Ele	-	Formation kota "B"		Pool Basi	n Dakota		Dedicated Avereuse.	Acres
<ol> <li>If more to interest and</li> <li>If more to by community</li> <li>Yes</li> </ol>	than one lease is royalty), han one lease of tization, unitizati ( ) No 1	dedicated to t different owne on, force-poolir f answer is "ye	he well, ou rship is ded ng. etc? es," type of	tline each c icated to th consolidatio	il or hachure marks o and identify the owr ne well, have the inte on cactually consolidate	erests of a	reor (tital la Lo FEB 201 OIL CON. C DIST. 3	OM

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forcedpooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

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SAN JUAN ENGINEERING COMPANY,

FARMINGTON, N. M.

## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

ha Nom W.L. Shaver Position Sr, Production Clerk Company Tenneco Oil Co, Date Jan, 30, 1973 -----

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

27 January . 1973	
27 JERNARY 1973 Date Surveyed S	EA
Registered Professional Angine	car
ond/on Vanil Surveyor	
JANGE PLANE	4
1463 MARRY 1885	<i>ti</i>
Certificate Not Destation	د
Rel System	25

٨	_		Client:	XTO Energy
<b>Lodestar Servic</b>	es, Inc.	Pit Permit	Project:	Pit Permits
70 Bez 4465, Duran		Siting Criteria	Revised:	12/8/2008
V ·	•	Information Shee	et Prepared by:	Daniel Newman
API#:		3004521214	USPLSS:	T25N,R11W,10E
<b>N</b>			1 - + /1	26 41770 / 107 00602
Name:		IUN NE PAH #1	Lat/Long:	36.41779 / -107.99693
Depth to groundwater:		>100'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:		es south of the San Juan River		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	5,142' s	outhwest of Gallegos Canyon		
			Soil Type:	Entisols & Aridisols
Permanent residence, school, hospital, institution or church within 300'		No		
			Annual Precipitation:	8.71 inches average
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	no significant precipatation events
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		No	Attached Documents:	
Within defined municipal fresh water well field		No		Topo map, ground water data map, ariel photo, mines and quarries map, FEMA map
Wetland within 500'		No	Mining Activity:	No
Within unstable area		No		
Within 100 year flood plain		Zone X		
Additional Notes:		•	· · · · · · · · · · · · · · · · · · ·	

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## HUN NE PAH #1 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).

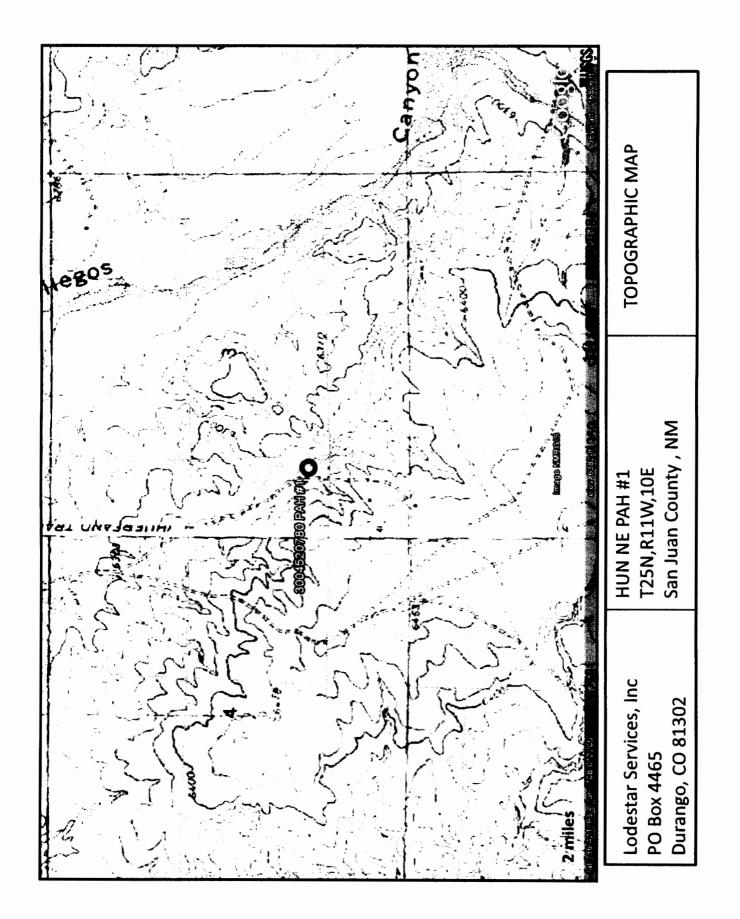
## Site Specific Hydrogeology

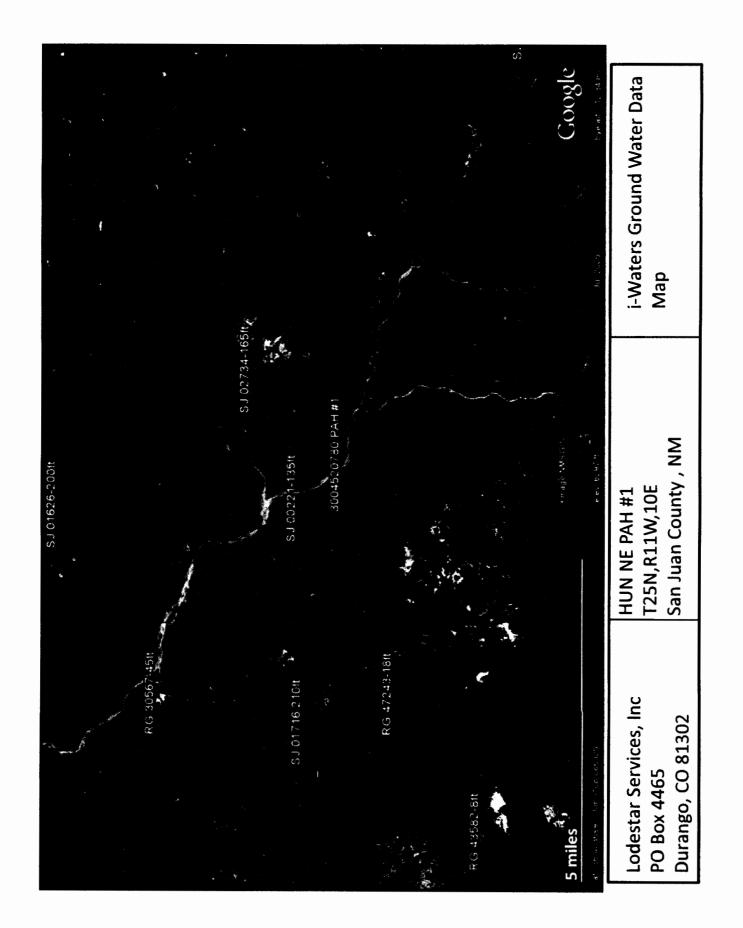
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity 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 6,411 feet and approximately 5,142 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 is expected to be shallow within Gallegos Canyon. The floor of the Gallegos Canyon is at an elevation of approximately 6,282 approximately 120 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 6,317 feet and is located 1.54 miles to the north this well puts groundwater at 135 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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		Bsn	ЪG	5 C

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ъз	25N	12W	01				H	210	210	210

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	Feet)	Åvg	500	500
	Water in	Min Max	500	500
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VERAGE DEPTH OF WATER REPORT 11/10/2008		д		
WATER		X		
JEPTH OF		Zone		
1 19		Sec	13	25
AVERA		Rng	10W	10W
		Tws	2 <b>6N</b>	2 <b>GN</b>
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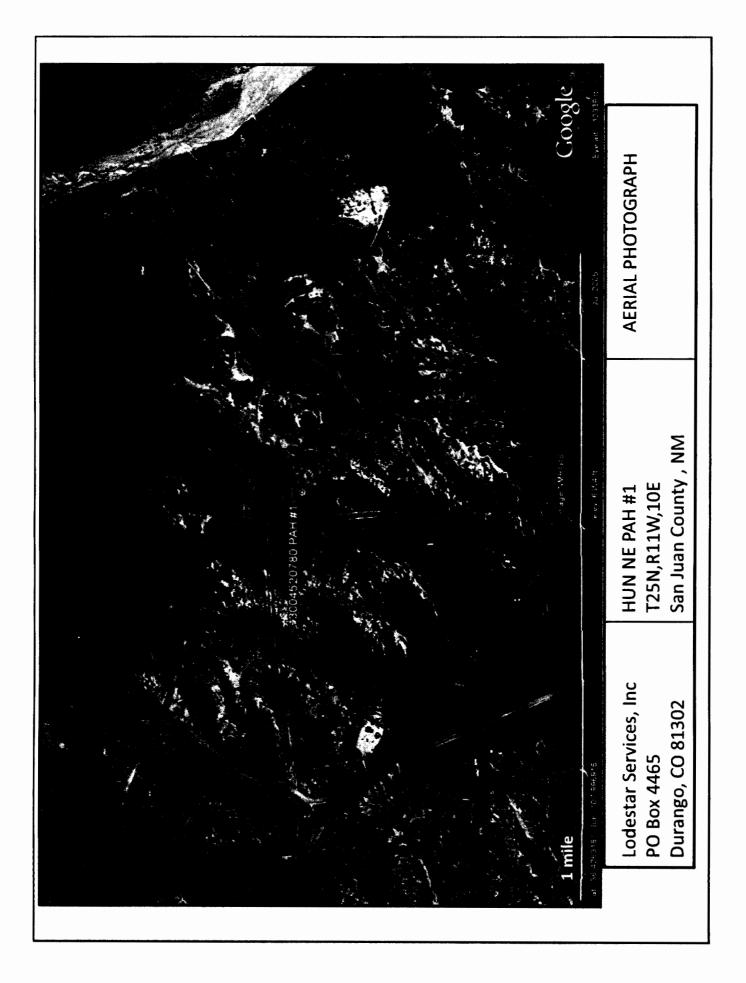
## AVERAGE DEPTH OF WATER REPORT 11/04/2008 (nenth Wate:

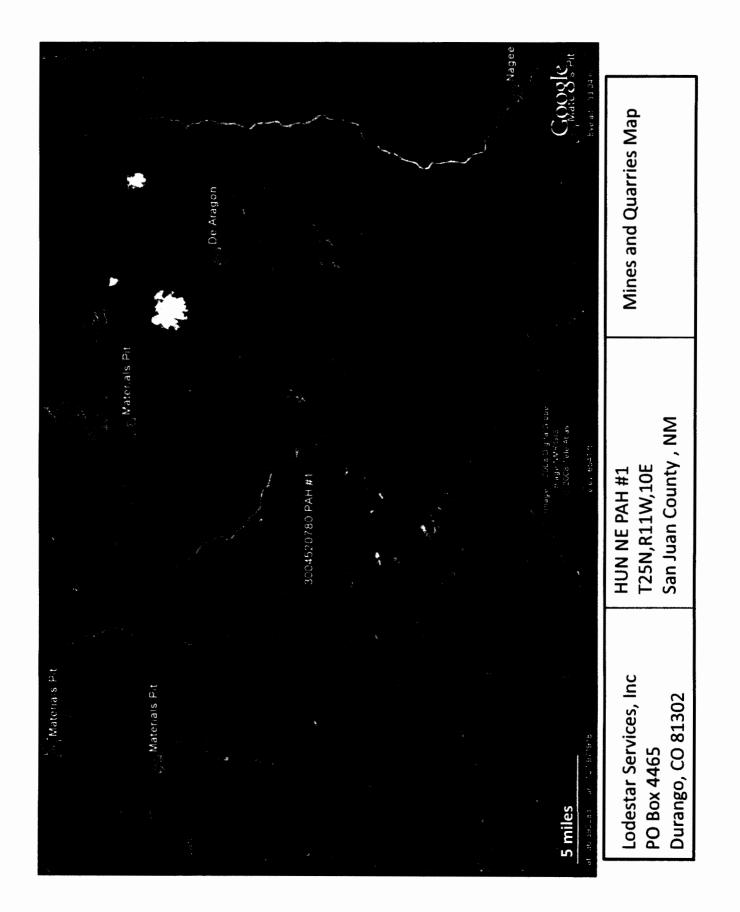
Feet)	Avg	200	165
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(Depth	Min	200	165
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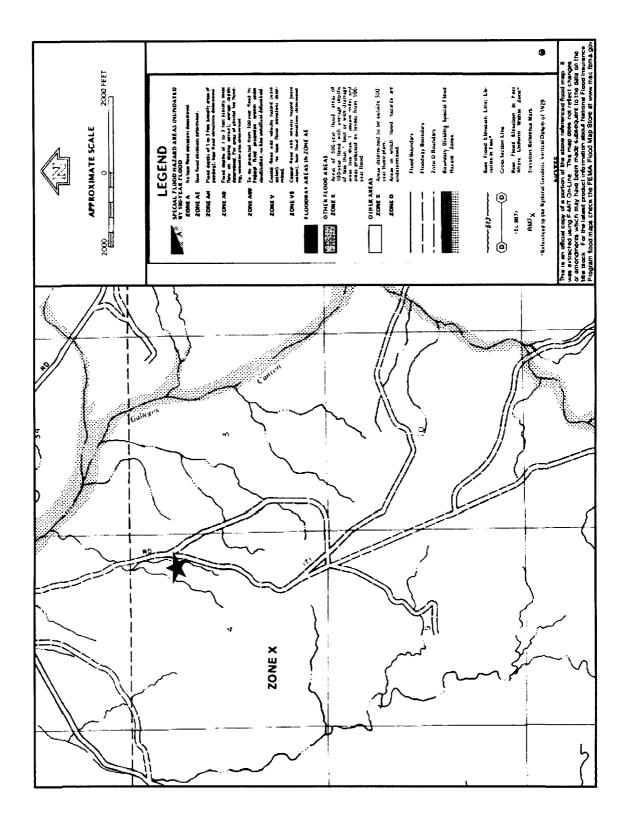
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# AVERAGE DEPTH OF WATER REPORT 11/04/2008

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	×			
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	Rng	12W 04	12W	12W
	Tws	2 6N	2 <b>6N</b>	2 <b>6N</b>
	Bsn	BG RG	9 <b>%</b>	5 D







## 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.

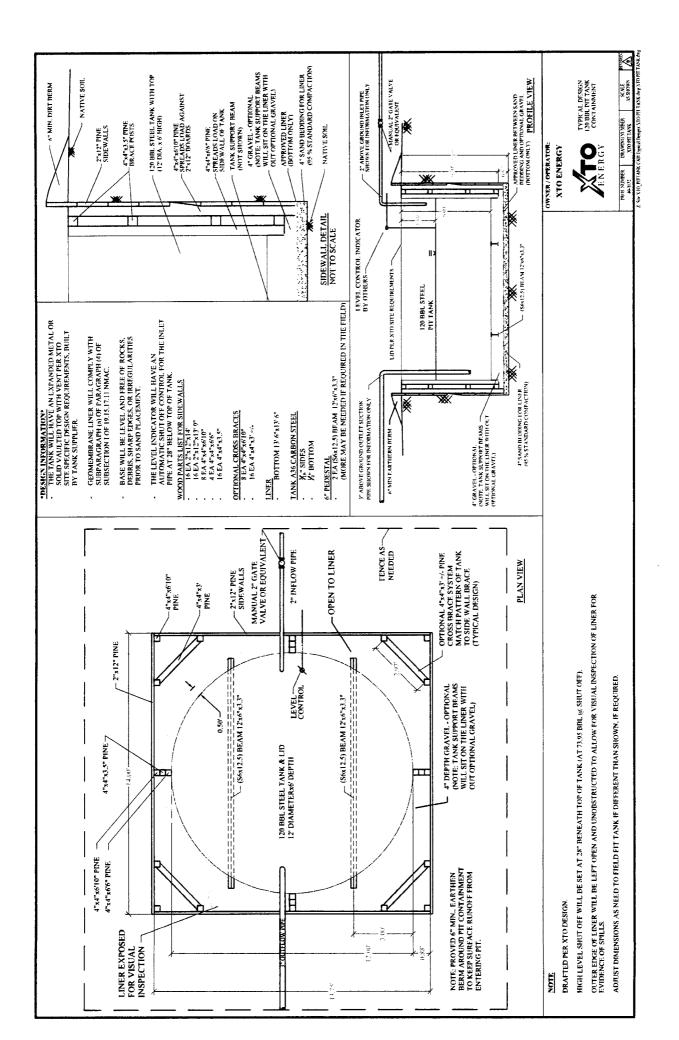
## <u>General Plan</u>

- 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 ¼" 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.
- 7. 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

> 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).

- 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.
  - 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.
- 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.

		MONTH	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	NSPECTIC	N FORM		
Well Name:					API No.:			
Legals	Sec:		Township:		Range:		·	
OT >								
A I O Inspector's	Inspection	Ë	Any visible liner	Any visible signs of	surface	Visible layer	Any visible signs	Freeboard
Name	Date	Ime	tears (Y/N)	tank overriows (Y/N)		OT OIL (Y/N)	ot a tank leak (Y/N)	EST. (TT)
Weth the second s								
Notes:	Provide De	Provide Detailed Description:	stion:					
Misc:								

## 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 Basin (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.

- 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.
- 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 Basin (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:
  - i. Proof of closure notice to division and surface owner;
  - ii. 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.

From:Lowe, Leonard, EMNRDTo:"Logan Hixon@xtoenergy.com"Subject:Approved Request for BGT Closure Plan Only-Hun Ne Pah #1 API # 30-045-21214Date:Tuesday, March 25, 2014 7:33:00 AMAttachments:Approved Hun Ne Pah # 1 API 30-045-21214-3.pdfImportance:High

Mr. Logan Hixon,

OCD approves closure of BGT at

Hun Ne Pah # 1, API # 30-045-21214.

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## **Leonard Lowe**

Environmental Engineer [Environmental Bureau] Oil Conservation Division/Energy Minerals and Natural Resources Department 1220 South St. Frances Santa Fe, New Mexico 87004 Office: 505-476-3492 E-mail: leonard.lowe@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/

From: Hixon, Logan [mailto:Logan Hixon@xtoenergy.com]
Sent: Monday, March 24, 2014 2:41 PM
To: Griswold, Jim, EMNRD
Cc: McDaniel, James; Hoekstra, Kurt; Naegele, Otto
Subject: Request for Approved BGT Closure Plan Only-Hun Ne Pah #1 (30-045-21214) Submitted January 9, 2009

Mr. Griswold

We are requesting an approved below grade tank closure plan only for the following site:

-Hun Ne Pah #1 (API 30-045-21214) located in Section 10 (E), Township 25N, Range 11W, San Juan County, New Mexico.

The plan according to our records was submitted to your office January 9, 2009.

This BGT is being closed due to the P&A'ing of this well site

Thank you for the help with this matter.

Thank You! XTO ENERGY INC., an ExxonMobil subsidiary Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018 Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Logan\_Hixon@xtoenergy.com