District I LOCAL Francis Dr. Habba NBA 99340 REGISTERED 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Department Department Division South St. Francis Dr. Santa Fe, NM 87505 2005 PELF & MM 87505 2005 PELF & MM 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, Close	ed-Loop System, Below-Grade	<u>Fank, or</u>
Proposed Alterna	tive Method Permit or Closure I	Plan Application
Existing BGT Closure of Modification	pit, closed-loop system, below-grade tank, o a pit, closed-loop system, below-grade tank, on to an existing permit in only submitted for an existing permitted on lternative method	or proposed alternative method
Instructions: Please submit one application (	(Form C-144) per individual pit, closed-loop syst	em, below-grade tank or alternative request
Please be advised that approval of this request does not relie environment. Nor does approval relieve the operator of its	eve the operator of liability should operations result is responsibility to comply with any other applicable gr	in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinances.
1. Operator: <u>XTO Energy, Inc.</u>	OGRID #:	5380
Address: #382 County Road 3100, Aztec, NM 8		
Facility or well name:       JICARILLA APACHE # 9         API Number:       30-039-08101		
U/L or Qtr/Qtr <u>A</u> Section <u>28</u> Tow		
Center of Proposed Design: Latitude <u>36.46229</u>		NAD:1927 🖾 1983
Surface Owner: 🗌 Federal 🗌 State 🗌 Private 🛛 Tri	bal I rust or Indian Allotment	
<b><u>Pit</u>:</b> Subsection F or G of 19.15.17.11 NMAC		
Temporary: Drilling Workover		
Permanent Emergency Cavitation P&A		
Lined Unlined Liner type: Thickness	$\mil$ $\sqcup$ LLDPE $\sqcup$ HDPE $\sqcup$ PVC $\sqcup$ O	ther
String-Reinforced		
Liner Seams: Welded Factory Other	Volume:bb	Dimensions: Lx Wx D
3. Closed-loop System: Subsection H of 19.15.17.1		
Type of Operation: P&A Drilling a new well		nich require prior approval of a permit or notice of
intent)		
Drying Pad Above Ground Steel Tanks	Iaul-off Bins 🔲 Other	
Lined Unlined Liner type: Thickness	mil 🔲 LLDPE 🗌 HDPE 🗌 PVC 🗌	] Other
Liner Seams: Welded Factory Other		
4.		
Below-grade tank: Subsection I of 19.15.17.11	NMAC	
Volume: <u>120</u> bbl Type of fluid:	Produced Water	
Tank Construction material:Steel		
Secondary containment with leak detection V	isible sidewalls, liner, 6-inch lift and automatic o	verflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls	only 🛛 Other Visible sidewalls, vaulted, autor	matic high-level shut off, no liner
Liner type: Thickness mil		
5. Alternative Method:		
Submittal of an exception request is required. Excepti	ions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.
Sacrimen of an encoheron reducer to reduced. Everebe		

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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10.

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 acception of the application of the app	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	<i>approval.</i> ing pads or
<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.</li> <li>(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.	🗌 Yes 🛛 No

FEMA map

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11.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents attached.         Image: Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Image: Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC         Image: Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Image: Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC         Image: Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Image: Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Image: Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Image: Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Image: Design Plan - based upon the appropriate requirements of 19.15.17.13 NMAC         Image: Previously Approved Design (attach copy of design)       API Number: or Permit Number:         Image: Previously Approved Design (attach copy of design)       API Number:       or Permit Number:	
<ul> <li>12.</li> <li><u>Closed-loop Systems Permit Application Attachment Checklist</u>: Subsection B of 19.15.17.9 NMAC</li> <li><i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents attached.</i></li> <li>Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9</li> <li>Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9</li> </ul>	
	INIVIAC
and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that	use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents of 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         Liner Specifications and Compatibility Assessment - 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         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	are
14.         Proposed Closure:       19.15.17.13 NMAC         Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.         Type:       Drilling         Workover       Emergency         Cavitation       P&A         Permanent Pit       Below-grade Tank         Closed-loop System         Alternative         Proposed Closure Method:       Waste Excavation and Removal         Waste Removal (Closed-loop systems only)         On-site Closure Method (Only for temporary pits and closed-loop systems)         In-place Burial       On-site Trench Burial         Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration         15.         Waste Excavation and Removal Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to a 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	
<ul> <li>Protocols and Procedures - based upon the appropriate requirements of 19:15:17:15 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19:15:17:13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19:15:17:13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19:15:17:13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19:15:17:13 NMAC</li> </ul>	

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<sup>16.</sup> 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 Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities o 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 Subsect	e requirements of Subsection H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC	2
<sup>17.</sup> 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 requi considered an exception which must be submitted to the Santa Fe Environmenta demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	re administrative approval from the appropriate distr I 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; Dat	a 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; Dat	a 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; US	a obtained from nearby wells	□ Yes □ No □ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sig- lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellit		🗌 Yes 🗌 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or s - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	Yes 🗍 No
Within incorporated municipal boundaries or within a defined municipal fresh wat adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approv		🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visu</li> </ul>	al 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	g and Mineral Division	🗌 Yes 🗌 No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map</li> </ul>	y & 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: (19.45.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the a drying protocols and Procedures - based upon the appropriate requirements of 19.1</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying protocols and Procedures - based upon the appropriate requirements of 19.1</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and the statement in the statement in the statement is the statement of the protocols in the statement is the statement of the statement in the statement is the statement of the statement is the statement in the statement is the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement in the sta</li></ul>	uirements of 19.15.17.10 NMAC f Subsection F of 19.15.17.13 NMAC ppropriate requirements of 19.15.17.11 NMAC oad) - based upon the appropriate requirements of 19.1 5.17.13 NMAC puirements of Subsection F of 19.15.17.13 NMAC f Subsection F of 19.15.17.13 NMAC	15.17.11 NMAC

Soil Cover Design - 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

19. Operator Application Certification:	
I hereby certify that the information submitted with this application is tr	rue, accurate and complete to the best of my knowledge and belief.
Name (Print): Kim Champlin	Title: Environmental Representative
/ .	
e-mail address: kim_champlin@xtoenergy.com	Telephone:(505) 333-3100
20. <u>OCD Approva</u> l: Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
	an prior to implementing any closure activities and submitting the closure report. days of the completion of the closure activities. Please do not complete this
22.         Closure Method:         Waste Excavation and Removal         On-Site Closure Method         If different from approved plan, please explain.	Alternative Closure Method 🗌 Waste Removal (Closed-loop systems only)
Instructions: Please indentify the facility or facilities for where the liq two facilities were utilized. Disposal Facility Name: Disposal Facility Name:	Disposal Facility Permit Number:
24.         Closure Report Attachment Checklist: Instructions: Each of the foll         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:	
<b>Operator Closure Certification:</b> I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	s closure report is true, accurate and complete to the best of my knowledge and e requirements and conditions specified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

# NEW MEXICO OIL CONSERVATION COMMISSION

## WELL LOCATION AND ACERAGE DEDICATION PLAT

Operation       Lease       Weil 1:e         MARATHON DIL_COMPANY       Jicarilla Apache       9         Unit letter       Section       Tommbin       Farge       County       Rio Arribe         Actual Formage Location of Well:       26       North       5       West 1:       Rio Arribe         Grand Level Elec.       Producing formation       Pol       Besin Dakota       320       Acres         90       Test from the North       Ine and Interest       Besin Dakota       320       Acres         91       Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below.       1       Outline the acerage dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?         ( ) Yes (x) No       If answer is "roe" list the owners ond trach descriptions which have actually-accoptidated. (Use reverse side of this Torm if necessary.)         Macestana Odil Company - Tract 251       No         No allowable will be assigned to the well uniti all interests have the interests, has been proved by the Commiss an.         Section of the wise) or until a non standard unit, eliminating con fibries the well accompany       Careconom         1 <t< th=""><th></th><th></th><th>All die</th><th>tonces must be f</th><th>from the outer boundarie</th><th>s of the Section</th><th></th><th></th><th></th></t<>			All die	tonces must be f	from the outer boundarie	s of the Section			
Unit Letter Section Townchip 28 26 North 5 West Ria Arribe Actual Footoge Locotion of Well: 90 feet from the North line and 1100 feet from the East line Gard Level Elec. Froducing Formation Gard Level Elec. Froducing Formation 1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof tabth as to working interest and royolby). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? ( ) Yes (x) No If answer is 'yes,'' type of consolidation If answer is ''no'' list the owners and tract descriptions which have actual consolidated. (Use reverse side of this form if necessary) No If answer is and tract descriptions which have actual consolidated. (Use reverse side of this form if necessary) or until a non standard unit, eliminating for theresis, has been happroved by the Commiss in a No allowable to the well until all interests have the interests, been been poproved by the Commiss of and SEPT 1966 OIL CON. COM. 1 wret to end sender to the best of m Laceledge and belief. Name Name that the until a non standard unit, eliminating for interests, has been happroved by the Commiss on a 1 a 1 b 58 c 28 b 1 b 1 b 1 brobs cently that the usel section and and 1 brobs cently that the usel section and and 1 brobs cently that the usel section of m Laceledge and belief. Name Name the ame is trave and concer to the best of m Laceledge and belief. Name the action of 1 Company 1 brobs cently that the usel section and and the best of an Laceledge and belief. Name the action of 1 Company 1 brobs the action field notes of active section best of m Laceledge and belief. 1 brobs or a more made to the test best of an 1 brobs to an addrawer to be at the best of active 1 brobs or ander are to be at on an 1 brobs or a best of an an and th								Well 1.	3.
A       28       26 North       5 West       Rio Arribe         Actual footige Location of Well:       90       feet from the North       line and       100       feet from the East       line         90       feet from the North       Pool       Basin Dakota       320       Acres         G.4.9.0       Dakota       Basin Dakota       320       Acres         I. Outhine the acerage dedicated to the subject well by colored pencil or bachure marks on the plat below.       1       Cif more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?       () Yes (x) No       If answer is "yes," type of consolidation         If answer is "no," list the owners and tract descriptions which have actualization consolidated. (Use reverse side of this form if necessary)       No allowable will be assigned to the well unitil all interests have the proved by the Communitization, unitization, force-pooling, or otherwise) or until a non standard unit, eliminating the Minerests, has been approved by the Commiss an.         SEPT 1966       Cite CON. COM.       Cite TIFICATION         I a set a signed to the well unitil all interests have the med complete the informatics constance than its tree and complete to informatics and the set of an its the oreal feedinectes of an its astree and complete to informatics the						the second s			9
Actual Rearge Location of Well: 900 feet from the North line and 1100 feet from the East line Ground Level Elev. Producing Formation   Pool C. Quffine the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof thoth as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? ( ) Yes ( <b>x</b> ) No   If answer is "yes," type of consolidation   If answer is "no," list the owners and trad descriptions which have a cluster consolidated. (Use reverse side of this form if necessary.) <u>Harathon 011 Company - Tract 251</u> No allowable will be assigned to the well unitil all interests have been poproved by the Communitization, unitization, forced- pooling, or otherwise) or until a non standard unit, eliminating for the state of the information cartainers, has been poproved by the Commiss on. SEPT 1966 OIL CON. COM. DIST. 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Unit Letter								
990       feet from the North       line and 1100       feet from the East       line         Graund Level Elev.       Produing Formation       Pool       Pool       Pool       Pool       Pool       Pool       Acres         1. Outline the accrage dedicated to the subject well by colored pencil or hachure marks on the plat below.       2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).       3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been tonsolidated by communitization, unitization, force-pooling, etc?         ( ) Yes (X ) No       If answer is 'yes," type of consolidation       If answer is 'no." list the owners and trad descriptions which have actually communitization, unitization, force-pooling, etc?         No allowable will be assigned to the well until all interests have by the Required by communitization, unitization, forced-pooling, or otherwise) or until a non standard unt, eliminating that therests, has been approved by the Commiss n.         SEPT 1966       OLL CON. COM.       CERTIFICATION         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1			26	North	5 West	Rio	Arriba		
Grand Level Elev.       Producing formation       Pool       Basin Dakota       1       Dedicated Average:         G. Q.4.9.0       Dakota       Basin Dakota       320       Acres         1. Outline the accrage dedicated to the subject well by colored pencil or hachure marks on the plat below.       2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and rogalty).         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?       ( ) Yes (x ) No       If answer is 'yes," type of consolidation         If answer is 'no," list the owners and tract descriptions which have octueity consolidated. (Use reverse side of this form if necessary.)       Marathon Oil Company - Tract 251         No allowable will be assigned to the well until all interests have been poproved by the Communization, unitization, on standard unit, eliminating both miterests, has been poproved by the Commiss on.         SEPT 1966       CERTIFICATION         I Sec. 28       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Cd 4.90       Dakota       Basin Dakota       320       Acres         1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below.       2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royally).       3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?         ( ) Yes (X ) No       If answer is "yes," type of consolidation         If answer is "no," list the owners and tract descriptions which have actuely communitization, unitization, force-pooling, or otherwise) or until a non standard unit, eliminating of interests, has been poproved by the Commiss an.         SEP7       1966         OLL CON. COM.       CERTIFICATION         If answer is "no," list the owners and tract descriptions which have actuely consolidated. (Use reverse side of this form if necessary.)         Marathon 051       Company - Tract 251         No allowable will be assigned to the well until all interests have been consolidated.       D) communitization, unitiza on, forced-pooling, or otherwise) or until a non standard unit, eliminating of therees ad complete by the base of m kaseldage and belief.         Name       September 1, 1966         If a serby cartify thest the well location down or this plot was plotted from field mote of extension more may septrition, and there was not an end areage regression, and there is a compert by the set of an kaseldage and belief.				line and	1100	eet from the	East		
1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plot below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? ( ) Yes (x ) No If answer is "yes," type of consolidation									oge:
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PO Box 4465, Durango,	Siting Critoria		Client: Project: Revised: Prepared by:	XTO Energy Pit Permits 10/13/2008 Daniel Newman
API#:	3003908101		USPLSS:	T26N,R5W,28A
Name:	JICARILLA APACHE #9		Lat/Long:	36.46229 / -107.35856
Depth to groundwater:	<50'	]	Geologic formation:	San Jose Formation
Distance to closest continuously flowing watercourse:	31.5 miles north west to the San			
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	530' north of Tapicito Creek			
			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'	No			
			Annual Precipitation:	10.88" Lybrook, NM
Domestic fresh water well or spring within 500'	yes, Tacpicito crees is 530' to the south of this site		Precipitation Notes:	7.19" largest daily rainfall on record
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,
Wetland within 500'	No	]	Mining Activity:	No
Within unstable area	No	]		
Within 100 year flood plain		]		
Additional Notes:				

#### Jicarilla Apache #9 Below Grade Tank Hydrogeologic Report for Siting Criteria

#### **General Geology and Hydrology**

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the San Juan Basin on the Jicarilla Apachie Indian Reservation Near Tapicito Creek. The predominant geologic formation is the San Jose Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

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

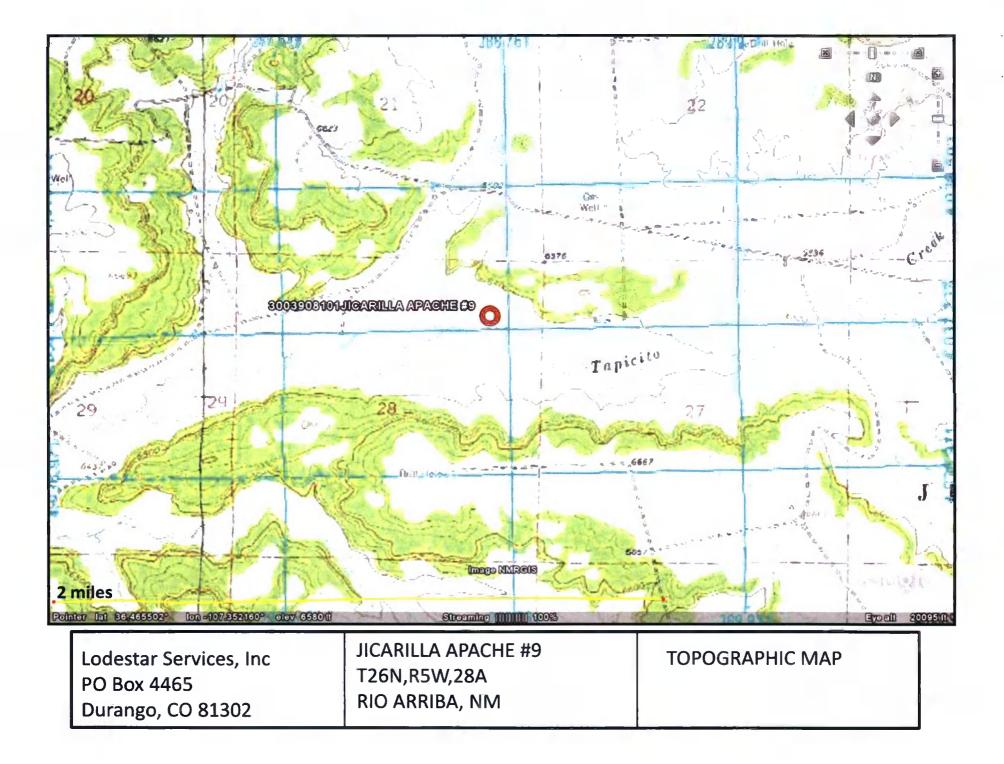
Dry and arid weather further prohibit active recharge. The climate of the region is arid, averaging just over 12 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu). The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

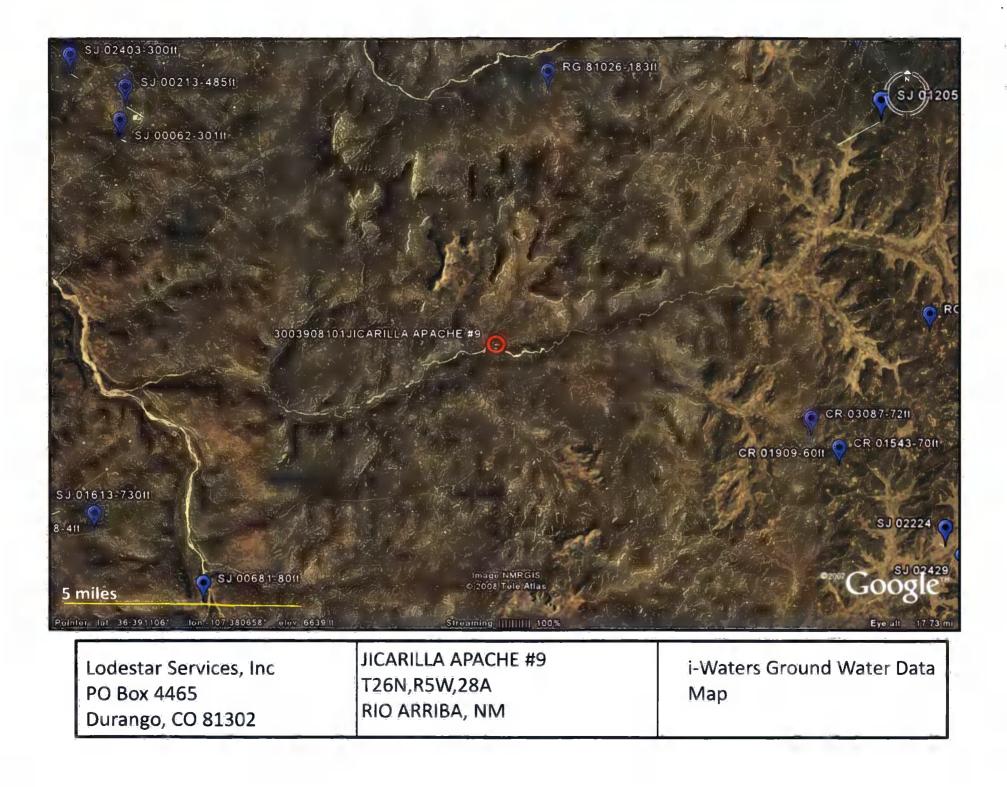
#### Site Specific Hydrogeology

Depth to groundwater is estimated to be less than 50 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 San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone, and shale. "Extensive intertonguing" of different members of this formation is reported.(Stone et al, 1983). Porous sandstones form the principal aquifers, while relatively impermeable shales and mudstones form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the San Jose Formation at depths greater than 100 feet and thicknesses of the aquifer can be up to several hundred feet (USGS, Groundwater Atlas of the US) (Stone et al., 1983). The site in question is located within a slightly vegetative bank of Tapicito Creek at an elevation of 6500 feet. This region is deeply incised by canyons, washes, gullies and arroyos, with Tacipito Creek being the predominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries composed of alluvium are evident on the attached aerial image. Groundwater is expected to be shallow within Tapicito Creek and within the surrounding tributary systems. An elevation difference between the site and the base of Tapicito Creek of barley ten feet suggests groundwater at the proposed site is not considerably deep.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is attached. Water drops show locations of wells and the labels for each water drop indicate depth to groundwater in feet. The nearest water well is approximately six miles to the north and sits approximately at the same elevation, but does not accurately represent this site. Therefore, the proximity to Tapicito Creek is used to estimate groundwater to be less than 50 feet deep at the proposed location.





		AVERAGE I	DEPTH OF	WATER	REPORT 1	0/07/20	80		
							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	х	Y	Wells	Min	Max	Avg
RG	25N	04W 26				1	135	135	135

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#### AVERAGE DEPTH OF WATER REPORT 09/30/2008

								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	Min	Max	Avg
SJ	25N	0 EW	03				1	500	500	500
SJ	25N	0.6W	21				1	80	80	80

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		AVER	AGE	DEPTH	OF	WATER	REPORT	1	0/04/20	08		
										(Depth	Water in	n Feet)
Bsn	Tws	Rng	Sec	Zone		X		Y	Wells	Min	Max	Avg
SJ	27N	04.00	34						1	750	750	750

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### AVERAGE DEPTH OF WATER REPORT 10/04/2008

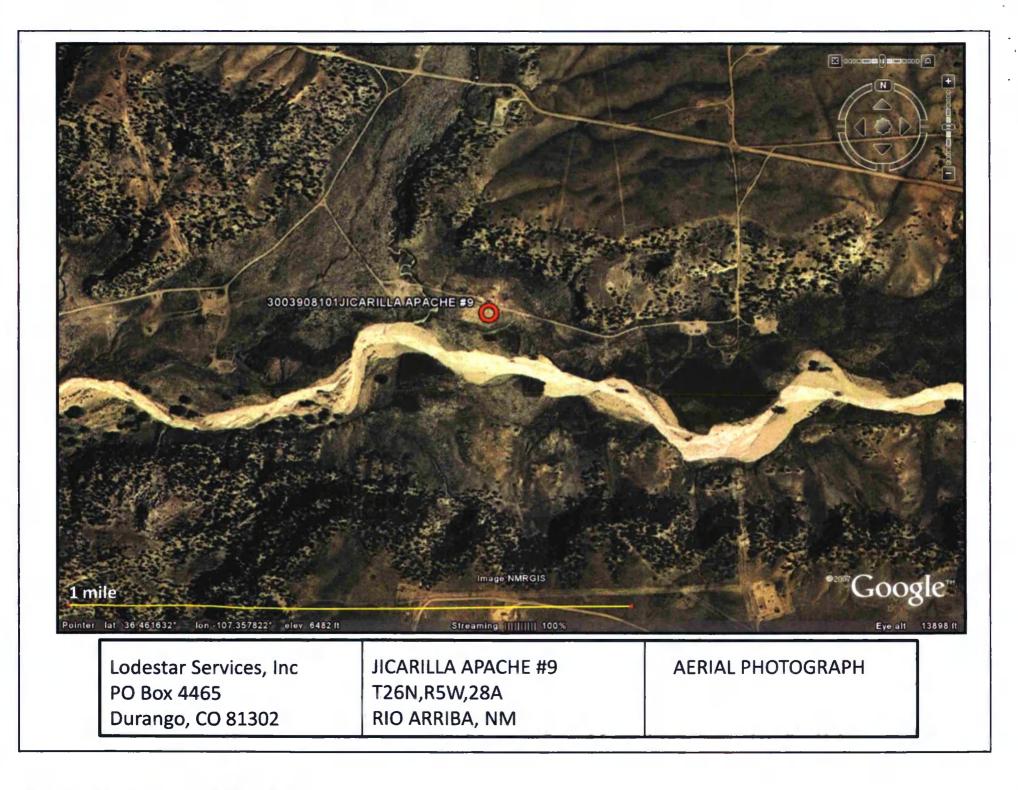
								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	Min	Max	Avg
RG	27N	05W	27				1	186	18.6	186
SJ	27N	059	04				1	260	260	260

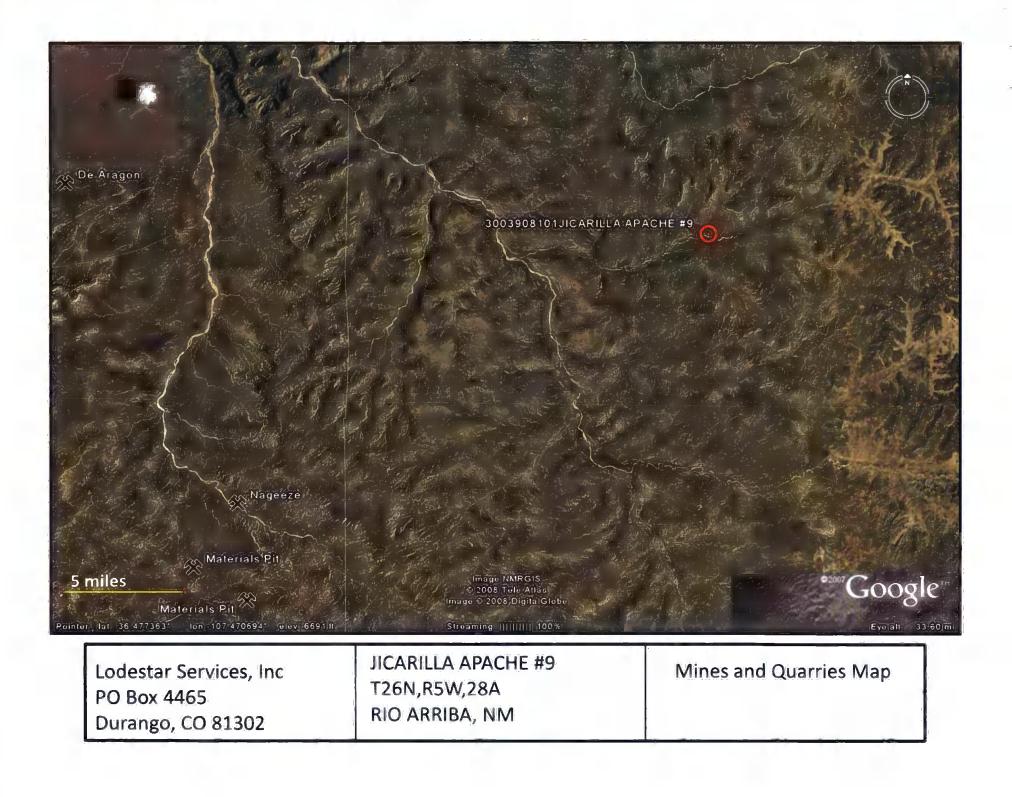
Record Count: 2

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#### AVERAGE DEPTH OF WATER REPORT 09/30/2008

								(Depth )	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	Min	Max	Avg
SJ	27N	0 EW	07				3	41	41	41
SJ	27N	0 EW	30				1	300	300	300
SJ	27N	0 EM	32				3	301	485	362





### 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.

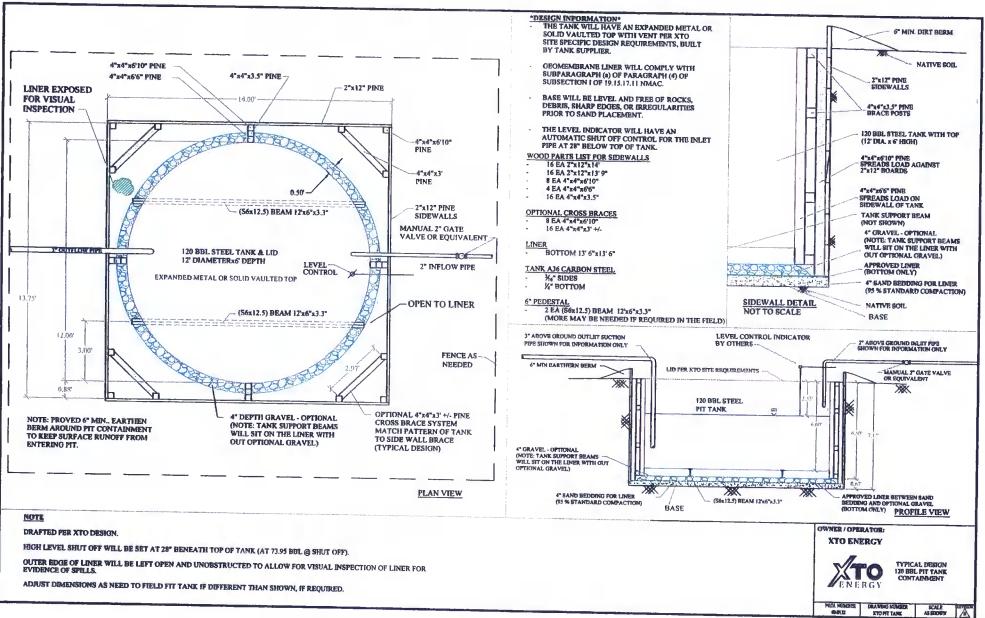
#### General Plan

- 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 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.
- 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).

- 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.



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### 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

- 1. 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.

				W GRADE TANK	INSPECTIC	N FORM		
Well Name:				API No.:				
egals	Sec:	Sec:		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	Any visible signs	Freeboard
							of a tank leak (Y/N)	Est. (ft)
								2.1
								1
				······				
lotes:	Provide De	tailed Descri	ption:					
lisc:		A						

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### 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.

- 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.
- 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

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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.

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