Form C-144 July 21, 2008

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Please be advi environment.

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

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For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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| Pit, Closed-Loop System, Below-Grade Tank, or |
| Proposed Alternative Method Permit or Closure Plan Application |
| Type of action: Existing BGT Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request |
| lease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. |
| Operator: XTO Energy, Inc. OGRID #: 5380 |
| Address: #382 County Road 3100, Aztec, NM 87410 |
| Facility or well name: Haney Gas Com B #1E |
| API Number: 30-045-24646 OCD Permit Number: |
| U/L or Qtr/Qtr M Section 20 Township 29N Range 10W County: San Juan |
| Center of Proposed Design: Latitude 36.70663 Longitude 107.91304 NAD: □1927 ☑ 1983 |
| Surface Owner: Federal □ State □ Private □ Tribal Trust or Indian Allotment |
| Permanent Drilling Cavitation P&A Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| ☐ String-Reinforced |
| Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other |
| 4. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 95 bbl Type of fluid: Produced Water Tank Construction material: Steel |

Alternative Method:

Liner type: Thickness

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other <u>Visible sidewalls, vaulted, automatic high-level shut off, no liner</u>

mil HDPE PVC Other

| • | |
|--|-----------------------------|
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) 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 | hospital, |
| | |
| 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 ☐ 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 consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | office for |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice 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. | priate district pproval. |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ⊠ Yes □ No |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ⊠ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ☐ NA |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ⊠ No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ⊠ No |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ⊠ No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☑ No |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ⊠ No |
| Within a 100-year floodplain FEMA map | Yes No |

| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | |
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| Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | |
| Previously Approved Design (attach copy of design) API Number: | |
| Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use | |
| above ground steel tanks or haul-off bins and propose to implement waste removal for closure) | |
| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | |
| Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: 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) | |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | |

| 16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if 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 occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No | vice and operations? |
| Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA 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 | С |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | 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; Data 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; Data obtained from nearby wells | Yes No |
| Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes No |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yeş ☐ No |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ☐ No |
| Within a 100-year floodplain FEMA map | ☐ Yes ☐ No |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann 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 G of 19.15.17.13 NMAC | 15.17.11 NMAC |

| Operator Application Certification: | | |
|---|---|---|
| I hereby certify that the information submitted with this application is true | ie, accurate and complete to the | ne best of my knowledge and belief. |
| | | |
| Name (Print): Kim Champlin | 1itle: | Environmental Representative |
| Signature: Km Chamilian | Date: | 11/26/08 |
| e-mail address: kim champlin@xtoenergy.com | | (505) 333-3100 |
| c-mail address. Killi Champinia/kochetgy.com | Telephone. | (202/333 3100 |
| OCD Approval: Permit Application (including closure plan) OCD Representative Signature: | | Conditions (see attachment) Approval Date: |
| Title: Buren Chut | OCD Parmit Num | ber: |
| Title: | _ OCD Tel init Num | Del . |
| Closure Report (required within 60 days of closure completion): Su Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained as | n prior to implementing any days of the completion of the | closure activities and submitting the closure report. closure activities. Please do not complete this been completed. |
| 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) |
| 23. Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the liqu two facilities were utilized. | | |
| Disposal Facility Name: | Disposal Facility P | ermit Number: |
| Disposal Facility Name: | | ermit Number: |
| Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below) | ned on or in areas that will not | |
| Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | d operations: | |
| | | |
| Closure Report Attachment Checklist: Instructions: Each of the followark 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 of 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 | | l to the closure report. Please indicate, by a check NAD: 1927 1983 |
| 25. | | |
| Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure Name (Print): | requirements and conditions | |
| Signature: | Date: | |
| | | |
| e-mail address: | Telephone: | |

OIL CONSERVATION DIVISION

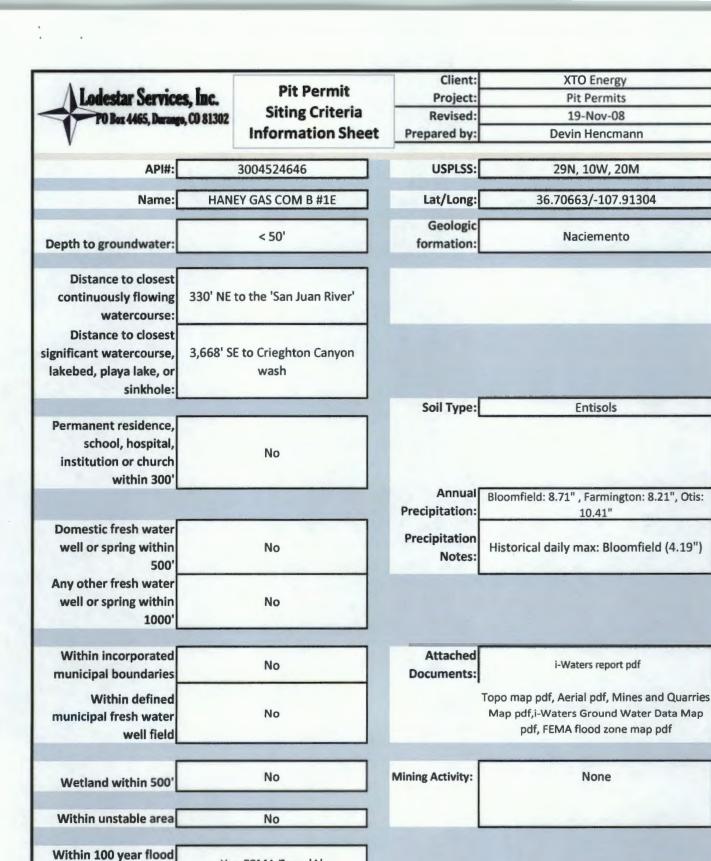
STATE OF NEW MEXICO ENERGY AID MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-71

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| Operator | | | | | Legse | | | | | Well No. | | |
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| Unit Letter | Section | | Township | | F | lange | County | | | | | |
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| | 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? | | | | | | | | | | | |
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Additional Notes:

plain

2,945' S to concrete lined irrigation canal

Yes-FEMA Zone 'A'

HANEY GAS COM B #1E Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T29N, R10W, Section 20M

Latitude/Longitude: approximately 36.70663, -107.91304

County: San Juan County, NM

General Description: near the San Juan River

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 below ground tank location will be near Creighton Canyon, southeast of Bloomfield and just south of the San Juan River. The Nacimiento Formation of Tertiary Age is exposed, along with Quaternary alluvial and aeoloian sands within dry washes and arroyos.

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. 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 nearby San Juan River and its tributaries.

The prominent soil type at the proposed site is entisols, which are defined as soils that do not show any profile development. Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the La Plata River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes 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).

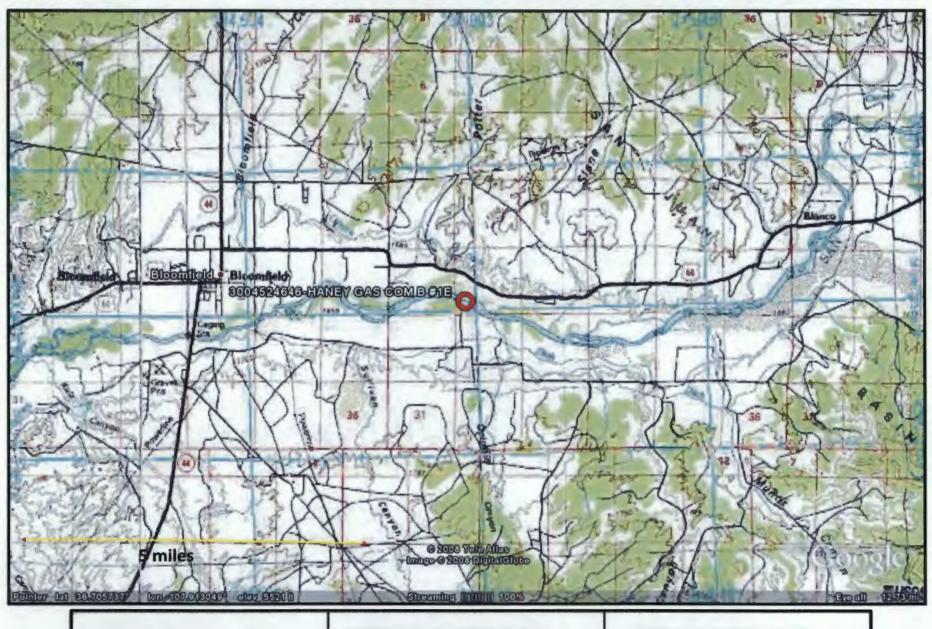
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

Depth to groundwater is estimated to be less than 50 feet. This estimation is based on data from Stone and others, 1983 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.

Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the San Juan River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 330 feet to the southeast of the San Juan River, and is approximately 3 feet higher in elevation (Google Earth).

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 also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered to the north of the proposed site along the San Juan River. Depth to groundwater within the nearby wells ranges from 6 feet to 186 feet below ground surface. The closest well to the proposed site is located approximately 1,200 feet to the southwest, and has a similar topographic elevation as the proposed site (Google Earth). Depth to groundwater within the well is 2 feet below ground surface. Another well to the south west is significantly higher in elevation then the proposed site, and has a depth to groundwater of 10 feet.



HANEY GAS COM B #1E T29N, R10W, S20M San Juan county, NM **TOPOGRAPHIC MAP**



HANEY GAS COM B #1E T29N, R10W, S20M San Juan county, NM i-Waters Ground Water Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

WATER COLUMN REPORT 10/20/2008

| | (quarter | | | | | | | - | | | | | |
|---------------|----------|-----|----|---|---|---|--------|-------|---------|-------|-------|--------|-----------|
| | (quarter | | | | | | smalle | | | Depth | Depth | | (in feet) |
| POD Number | Tws | Rng | | P | P | P | Zone | X | Y | Well | Water | Column | |
| SJ 00867 | 29N | 11W | | 4 | | | | | | 77 | 55 | 22 | |
| SJ 01302 | 29N | 11W | 07 | 4 | 1 | | | | | 250 | 210 | 40 | |
| SJ 01891 | 29N | 11W | | 4 | 1 | 3 | | | | 157 | | | |
| SJ 01851 | 29N | 11W | 10 | 4 | 4 | | | | | 125 | 48 | 77 | |
| SJ 02466 S | 29N | 11W | 11 | 4 | 3 | 3 | | | | 65 | | | |
| SJ 02466 | 29N | 11W | 11 | 4 | 3 | 3 | | | | 66 | | | |
| SJ 02991 | 29N | 11W | 13 | 3 | 4 | 2 | | | | 60 | | | |
| SJ 03136 | 29N | 11W | 13 | 3 | 4 | 4 | | | | 20 | | | |
| SJ 00987 | 29N | 11W | 13 | 4 | | | | | | 415 | 300 | 115 | |
| SJ 01426 | 29N | 11W | 14 | 1 | 4 | | | | | 155 | 10 | 145 | |
| SJ 00007 | 29N | 11W | 14 | 2 | 2 | 3 | | | | 752 | | | |
| SJ 03550 | 29N | 11W | 14 | 3 | 2 | 1 | | | | 10 | | | |
| SJ 01774 | 29N | 11W | 14 | 3 | 4 | 2 | | | | 82 | 6 | 76 | |
| SJ 03360 | 29N | 11W | 14 | 3 | 4 | 2 | | | | 40 | | | |
| SJ 03175 | 29N | 11W | 14 | 4 | 2 | 1 | | | | 60 | 24 | 36 | |
| SJ 03164 | 29N | 11W | 14 | 4 | 2 | 1 | | | | 75 | 56 | 19 | |
| SJ 03733 POD1 | 29N | 11₩ | 15 | 4 | 2 | 1 | | | | 64 | 20 | 44 | |
| SJ 02378 | 29N | 11W | 15 | 4 | 3 | 2 | | | | 75 | 12 | 63 | |
| SJ 03579 | 29N | 11W | 15 | 4 | 4 | 1 | | | | 83 | 30 | 53 | |
| SJ 02141 | 29N | 11W | 16 | 4 | 3 | 4 | | | | 110 | 40 | 70 | |
| SJ 02926 | 29N | 11W | 17 | 2 | 4 | 3 | | | | 375 | 80 | 295 | |
| SJ 03399 | 29N | 11W | 17 | 4 | 2 | | | | | 100 | | | |
| SJ 00487 | 29N | 11W | 17 | 4 | 4 | | | | | 60 | 6 | 54 | |
| SJ 02868 | 29N | 11W | 17 | 4 | 4 | 4 | | | | 50 | | | |
| SJ 01641 | 29N | 11W | 19 | 2 | 2 | 3 | | | | 120 | 55 | 65 | |
| SJ 02026 | 29N | 11W | 19 | 3 | 1 | | 4 | 40000 | 2077700 | 27 | 6 | 21 | |
| SJ 02970 | 29N | 11W | 19 | 4 | 3 | 2 | | | | 100 | 18 | 82 | |
| SJ 01250 | 29N | 11W | 19 | 4 | 4 | | | | | 60 | 20 | 40 | |
| SJ 02869 | 29N | 11W | 20 | 2 | 2 | 1 | | | | 50 | | | |
| SJ 00583 | 29N | 110 | 20 | 3 | 3 | 2 | | | | 150 | 30 | 120 | |

| SJ 01355 | 29N | 11W 20 | 4 | 4 | | | 36 | 3 | 33 |
|--------------------|-----|--------|---|---|---|---|----|----|----|
| SJ 00452 | 29N | 11W 21 | | | | | 12 | 10 | 32 |
| SJ 01969 | 29N | 11W 21 | 2 | | | | 55 | 55 | 10 |
| SJ 00701 CLW312190 | 29N | 11W 21 | 2 | 2 | | | 70 | 14 | 56 |
| SJ 00701 | 29N | 11W 21 | 2 | | 1 | | 73 | | |
| SJ 03350 | 29N | 11₩ 21 | 2 | 2 | 3 | | 50 | | |
| SJ 01090 | 29N | 11₩ 21 | 2 | 4 | | | 31 | 12 | 19 |
| SJ 02863 | 29N | 11W 21 | 2 | | 1 | | 52 | 20 | 32 |
| SJ 03659 | 29N | 11W 21 | 3 | | 2 | | 45 | 10 | 35 |
| SJ 01888 | 29N | 11W 21 | 4 | 2 | 2 | | 47 | 8 | 39 |
| SJ 02200 | 29N | 11W 22 | | | | | 60 | 22 | 38 |
| SJ 01557 | 29N | 11W 22 | 1 | 2 | | | 70 | 11 | 59 |
| SJ 00796 | 29N | 11W 22 | 1 | 2 | | | 50 | 8 | 42 |
| SJ 00704 | 29N | 11W 22 | 1 | 2 | | | 55 | 20 | 35 |
| SJ 01703 | 29N | 11W 22 | 1 | 2 | | 4 | 68 | 3 | 65 |
| SJ 03747 POD1 | 29N | 11W 22 | 1 | 2 | 3 | | 47 | 27 | 20 |
| SJ 02813 | 29N | 11W 22 | 1 | 2 | 3 | | 59 | 16 | 43 |
| SJ 01214 | 29N | 11W 22 | 1 | 3 | | | 49 | 12 | 37 |
| SJ 00484 | 29N | 11W 22 | 1 | 3 | 1 | | 37 | 10 | 27 |
| SJ 00320 | 29N | 11W 22 | 1 | 3 | 1 | | 38 | 10 | 28 |
| SJ 03532 | 29N | 11W 22 | 1 | 3 | 3 | | 49 | 14 | 35 |
| SJ 00151 | 29N | 11W 22 | 1 | 3 | 4 | | 45 | 18 | 27 |
| SJ 02721 | 29N | 11W 22 | 1 | 4 | | | | 59 | |
| SJ 03503 | 29N | 11W 22 | 2 | 3 | 3 | | 72 | 18 | 54 |
| SJ 02578 | 29N | 11W 22 | 2 | 3 | 3 | | 58 | 24 | 34 |
| SJ 03093 | 29N | 11W 22 | 2 | 3 | 4 | | 42 | 22 | 20 |
| SJ 03189 | 29N | 11W 22 | 3 | 2 | 1 | | 45 | 20 | 25 |
| SJ 03188 | 29N | 11₩ 22 | 3 | 2 | 2 | | 45 | 11 | 34 |
| SJ 02020 | 29N | 11W 22 | 3 | 3 | | | 27 | 6 | 21 |
| SJ 02138 | 29N | 11W 22 | 4 | 2 | | | 40 | 7 | 33 |
| SJ 02529 | 29N | 11W 22 | 4 | 2 | 3 | | 30 | 9 | 21 |
| SJ 03479 | 29N | 11W 22 | 4 | 2 | 3 | | 43 | 4 | 39 |
| SJ 03049 | 29N | 11W 22 | 4 | 2 | 4 | | 33 | 10 | 23 |
| SJ 00696 | 29N | 11W 22 | 4 | 3 | | | 34 | 12 | 22 |
| SJ 01974 | 29N | 11W 22 | 4 | 3 | 3 | | 47 | 11 | 36 |
| SJ 03567 | 29N | 11W 23 | 1 | 2 | 3 | | 50 | 22 | 28 |
| SJ 03557 | 29N | 11W 23 | 1 | 3 | 1 | | 50 | 15 | 35 |
| SJ 03558 | 29N | 11W 23 | 1 | 3 | 1 | | 50 | 15 | 35 |
| SJ 03559 | 29N | 11W 23 | 1 | 3 | 4 | | 45 | 15 | 30 |
| SJ 00812 | 29N | 11W 23 | 1 | 4 | | | 44 | | |
| | | | | | | | | | |

| SJ 03546 | 29N | 11W | 23 | 1 | 4 | 2 | | | 50 | 15 | 35 |
|---------------|-----|-----|----|---|---|---|--------|---------|------|-----|-----|
| SJ 03591 | 29N | 11W | 23 | 1 | 4 | 4 | | | 55 | 20 | 35 |
| SJ 01870 | 29N | 11W | 23 | 2 | | | | | 58 | 30 | 28 |
| SJ 03130 | 29N | 11W | 23 | 2 | 1 | 3 | | | 50 | 30 | 20 |
| SJ 03201 | 29N | 11W | 23 | 2 | 1 | 3 | | | 60 | 30 | 30 |
| SJ 03353 | 29N | 11W | 23 | 2 | 1 | 3 | | | 45 | 25 | 20 |
| SJ 01610 | 29N | 11W | 23 | 2 | 2 | | | | 52 | 25 | 27 |
| SJ 01573 | 29N | 11W | 23 | 2 | 3 | | | | 41 | 21 | 20 |
| SJ 03073 | 29N | 11W | 23 | 2 | 3 | 1 | | | 30 | | |
| SJ 03286 | 29N | 11W | 23 | 3 | 3 | 1 | | | 38 | 28 | 10 |
| SJ 02799 | 29N | 11W | 23 | 4 | 1 | 1 | | | 56 | 15 | 41 |
| SJ 03548 | 29N | 11W | 23 | 4 | 1 | 1 | | | 50 | 15 | 35 |
| SJ 01962 | 29N | 11W | 24 | 1 | 2 | 2 | | | 45 | 12 | 33 |
| SJ 03343 | 29N | 11W | 24 | 1 | 4 | 1 | | | 35 | 18 | 17 |
| SJ 00804 | 29N | 11W | 25 | 1 | 4 | | | | 37 | 25 | 12 |
| SJ 01808 0-5 | 29N | 11W | 26 | 3 | 1 | 1 | | | 52 | 43 | 9 |
| SJ 02121 | 29N | 11W | 27 | 1 | 1 | | | | 30 | 6 | 24 |
| SJ 02210 | 29N | 11W | 27 | 1 | 1 | | | | 32 | 8 | 24 |
| SJ 03588 | 29N | 11W | 27 | 1 | 1 | 2 | | | | | |
| SJ 02227 | 29N | 11W | 27 | 1 | 1 | 4 | | | 27 | 6 | 21 |
| SJ 00700 | 29N | 11W | 27 | 1 | 3 | 3 | | | 20 | 7 | 13 |
| SJ 01808 0-4 | 29N | 11W | 27 | 2 | 3 | 3 | | | . 32 | 25 | 7 |
| SJ 01808 0-1 | 29N | | 27 | 2 | 4 | 2 | | | 25 | 17 | 8 |
| SJ 01808 0-2 | 29N | 11W | 27 | 2 | 4 | 3 | | | 27 | 19 | В |
| SJ 01808 0-3 | 29N | 11W | 27 | 2 | 4 | 4 | | | 39 | 34 | 5 |
| SJ 02664 | 29N | 11W | | 3 | 2 | | | | 40 | 26 | 14 |
| SJ 02664 S | 29N | 11W | 27 | 3 | 2 | | | | 38 | 23 | 15 |
| SJ 02664 S-2 | 29N | 11W | 27 | 3 | 2 | | | | 34 | 19 | 15 |
| SJ 02664 S-3 | 29N | 11W | 27 | 3 | 2 | | | | 41 | 30 | 11 |
| SJ 02664 S-9 | 29N | 11W | 27 | 3 | 2 | | | , | 33 | 19 | 14 |
| SJ 02664 S-4 | 29N | 11W | 27 | 3 | 2 | | | | 42 | 30 | 12 |
| SJ 02664 S-10 | 29N | 11W | 27 | 3 | 2 | | | | 33 | 19 | 14 |
| SJ 02664 S-5 | 29N | 11W | 27 | 3 | 2 | | | | 41 | 30 | 11 |
| SJ 02664 S-6 | 29N | 11W | 27 | 3 | 2 | | | | 40 | 28 | 12 |
| SJ 02664 S-7 | 29N | 11W | 27 | 3 | 2 | | | | 37 | 23 | 14 |
| SJ 02664 S-8 | 29N | 11W | 27 | 3 | 2 | | | | 35 | 25 | 10 |
| SJ 02148 | 29N | 11W | 27 | 4 | 2 | | | | 305 | 186 | 119 |
| SJ 01808 0-6 | 29N | 11W | | 4 | 2 | 1 | | | 50 | | |
| SJ 03762 POD1 | 29N | 11W | 28 | 1 | 1 | | 267348 | 2075529 | 27 | 15 | 12 |
| SJ 03476 | 29N | 11W | 28 | 1 | 1 | 2 | | | 65 | | |
| | | | | | | | | | | | |

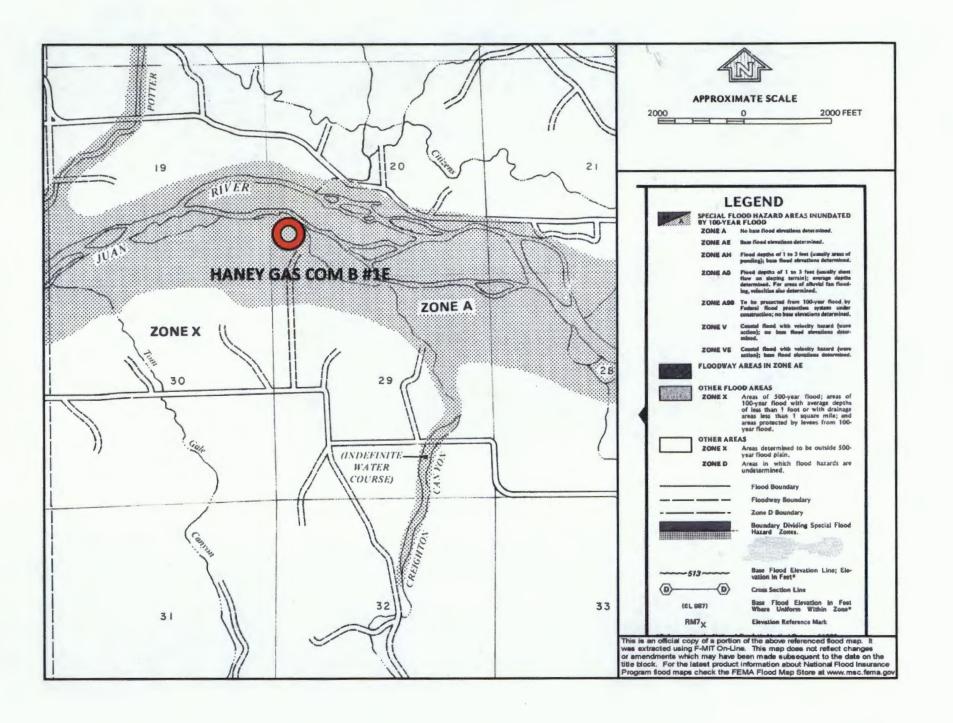
| SJ 03415 | 29N | 11W 28 | 1 | . 2 | 1 | | | | 60 | 20 | 40 |
|---------------|-------|--------|-----|-----|---|--|--------|---------|-----|-----|----|
| SJ 02559 | 29N | 11W 28 | 1 | . 2 | | | | | 15 | 7 | 8 |
| SJ 02330 | 29N | 11W 28 | 2 | 1 | | | | | 128 | 115 | 13 |
| SJ 03021 | 29N | 11W 28 | 2 | 1 | 3 | | | | 16 | 5 | 11 |
| SJ 01606 | 29N | 11W 28 | 2 | 2 | | | | | 35 | 8 | 27 |
| SJ 03468 | 29N | 11W 28 | - 2 | 4 | | | 367704 | 2073506 | 50 | | |
| SJ 03469 | 29N | 11W 28 | - 2 | 4 | 3 | | | | 50 | | |
| SJ 02713 | 29N | 11W 28 | 3 | 1 | 1 | | | | 26 | 12 | 14 |
| SJ 02858 | 29N | 11W 28 | 3 | 1 | 3 | | | | 40 | | |
| SJ 02714 | 29N | 11W 28 | 3 | 3 2 | | | | | 43 | 28 | 15 |
| SJ 02708 | 29N | 11W 28 | 3 | 3 2 | | | | | 26 | 12 | 14 |
| SJ 03149 | 29N | 11W 28 | - | 1 2 | 2 | | | | 60 | 35 | 25 |
| SJ 03475 | 29N | 11W 29 | - | 1 | 3 | | | | 40 | 20 | 20 |
| SJ 00292 | 29N | 11W 29 | - 2 | 1 | 4 | | | | 24 | 9 | 15 |
| SJ 01554 | 29N | 11W 29 | - 2 | 2 2 | | | | | 35 | 18 | 17 |
| SJ 02038 | 29N | 11W 29 | - | 1 | | | | | 14 | 4 | 10 |
| SJ 03298 | 29N | 11W 29 | 4 | 1 | 1 | | | | 70 | 6 | 64 |
| SJ 02023 | 29N | 11W 29 | | 2 | | | | | 24 | 7 | 17 |
| SJ 02182 | 29N | 11W 29 | 4 | 1 2 | | | | | 27 | 11 | 16 |
| SJ 00822 | 29N | 11W 29 | | 1 3 | | | | | 34 | 15 | 19 |
| SJ 03421 | 29N | 11W 29 | 4 | 1 4 | 3 | | | | 50 | 28 | 22 |
| SJ 01391 | 29N | 11W 30 | - 2 | 2 | | | | | 40 | 25 | 15 |
| SJ 03348 | 29N | 11W 30 | - 2 | 2 1 | 3 | | | | 60 | | |
| SJ 01260 | 29N | 11W 30 | - 2 | 2 2 | | | | | 42 | 16 | 26 |
| SJ 01264 | 29N | 11W 30 | 2 | 2 2 | | | | | 27 | 12 | 15 |
| SJ 01328 | 29N | 11M 30 | 4 | 2 2 | | | | | 28 | 15 | 13 |
| SJ 01821 | 29N | 11M 30 | - 2 | 2 4 | | | | | 70 | 6 | 64 |
| SJ 00875 | 29N | 11M 30 | | 1 1 | | | | | 37 | 20 | 17 |
| SJ 02922 | 29N | 11W 31 | : | 3 2 | 2 | | | | 75 | | |
| SJ 03795 POD1 | 29N | 11W 31 | : | 3 2 | 4 | | 266438 | 2067001 | 75 | 45 | 30 |
| SJ 03541 | 29N | 11W 31 | | 3 4 | 1 | | | | 80 | 40 | 40 |
| SJ 00441 | 29H | 11W 32 | - 4 | 2 2 | | | | | | | |
| SJ 00103 | 29N | 11W 32 | | 4 4 | 4 | | | | 263 | | |
| SJ 00103 S | 29N | 11W 32 | - | 4 4 | 4 | | | | 254 | | |
| SJ 03666 | _ 29N | 11M 33 | | 2 1 | 3 | | | | 49 | 30 | 19 |
| | | | | | | | | | | | |



HANEY GAS COM B #1E T29N, R10W, S20M San Juan county, NM **AERIAL PHOTOGRAPH**



HANEY GAS COM B #1E T29N, R10W, S20M San Juan county, NM Mines and Quarries Map



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.

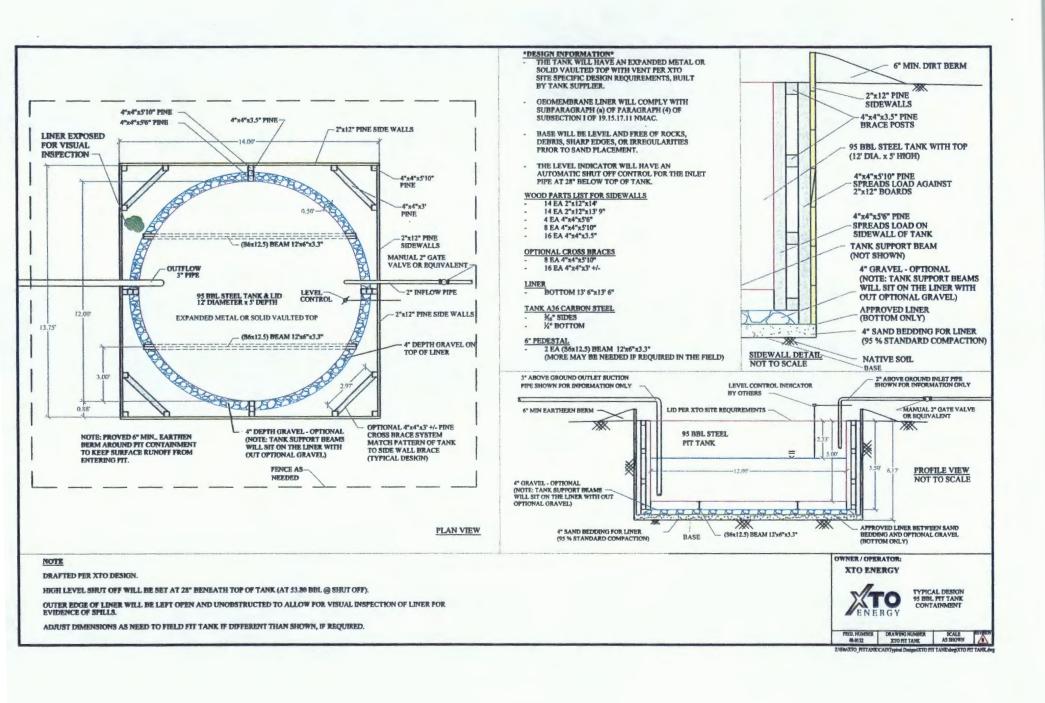
General Pian

- 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 1/4" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 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.
 - 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

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.

| | | MONT | HEA REFO | W GRADE TANK | INSPECTIO | N FORM | | |
|----------------------------|--------------------|--------------------|--|---|--|---------------|--|------------------------|
| Well Nan | ne: | | | | API No.: | | | |
| _egals | Sec: | | Township: | | Range: | | | |
| XTO Inspector's Name | Inspection Date | Inspection Time | Any visible liner tears (Y/N) | Any visible signs of tank overflows (Y/N) | Collection of surface run on (Y/N) | Visible layer | Any visible signs of a tank leak (Y/N) | Freeboard Est. (ft) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| , 1500 m | | 1 | | | | | | |
| | | | | | | | | |
| Notes: | Provide De | tailed Descri | ption: | | | | | |
| | | | | | | | | |
| Misc: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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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

- 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.
- 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

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.
- 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.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

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

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit.

 Seeding will be accomplished via drilling on the contour whenever practical or by other divisionapproved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands.

 Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted)
 consisting of at least three native plant species, including at least one grass, but not including
 noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding
 or planting will be continued until successful vegetative growth occurs.

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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.