

**Jones, Brad A., EMNRD**

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**From:** James\_McDaniel@xtoenergy.com  
**Sent:** Wednesday, June 22, 2011 9:59 AM  
**To:** Jones, Brad A., EMNRD  
**Subject:** BGT Closures

Brad,

I have two more BGTs we are planning to close due to plugging and abandoning of the well locations. I would like to request approval of the closure plan only for the following locations:

Hubbell Gas COM #2S . API#20-045-32776 submitted: 12/5/2008

Gracia State 32L #3 API#30-045-28694 submitted: 12/12/2008

thanks much!



*James McDaniel, CHMM #15676*

**EH&S Supervisor**

**XTO Energy, Inc.**

Office # 505-333-3701

Cell # 505-787-0519

James.McDaniel@xtoenergy.com

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

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

## State of New Mexico

Energy Minerals and Natural Resources

## Department

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-144

July 21, 2008

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

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

**Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application**

- Type of action: ☒ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  
 Existing BGT ☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit  
☒ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

**Instructions:** Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: XTO Energy, Inc. OGRID #: 5380Address: #382 County Road 3100, Aztec, NM 87410Facility or well name: Gracia State 32-L #3API Number: 30-045-28694 OCD Permit Number: \_\_\_\_\_U/L or Qtr/Qtr L Section 32 Township 26N Range 11W County: San JuanCenter of Proposed Design: Latitude 36.4424 Longitude 108.03304 NAD: ☐ 1927 ☒ 1983Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☐ **Pit:** Subsection F or G of 19.15.17.11 NMACTemporary: ☐ Drilling ☐ Workover☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A☐ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_☐ String-ReinforcedLiner Seams: ☐ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.

☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMACType 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 NMACVolume: 120 bbl Type of fluid: Produced WaterTank Construction material: Steel☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no linerLiner type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

5.

☐ **Alternative Method:**

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

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| 6.                                                                                                                                                                                                                                                                                | <p><b>Fencing:</b> Subsection D of 19.15.17.11 NMAC (<i>Applies to permanent pits, temporary pits, and below-grade tanks</i>)</p> <p><input type="checkbox"/> Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)</p> <p><input type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input checked="" type="checkbox"/> Alternate. Please specify <u>Four foot height, steel mesh field fence (hogwire) with pipe top railing</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 7.                                                                                                                                                                                                                                                                                | <p><b>Netting:</b> Subsection E of 19.15.17.11 NMAC (<i>Applies to permanent pits and permanent open top tanks</i>)</p> <p><input type="checkbox"/> Screen <input type="checkbox"/> Netting <input checked="" type="checkbox"/> Other <u>Expanded metal or solid vaulted top</u></p> <p><input type="checkbox"/> Monthly inspections (If netting or screening is not physically feasible)</p>                                                                                                                                                                                                                                                                                                                                                      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| 8.                                                                                                                                                                                                                                                                                | <p><b>Signs:</b> Subsection C of 19.15.17.11 NMAC</p> <p><input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input checked="" type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 9.                                                                                                                                                                                                                                                                                | <p><b>Administrative Approvals and Exceptions:</b></p> <p>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</p> <p><b>Please check a box if one or more of the following is requested, if not leave blank:</b></p> <p><input type="checkbox"/> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.</p> <p><input type="checkbox"/> Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 10.                                                                                                                                                                                                                                                                               | <p><b>Siting Criteria (regarding permitting):</b> 19.15.17.10 NMAC</p> <p><b>Instructions:</b> The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 85%;">Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</td> <td style="width: 15%; text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</td> <td></td> </tr> <tr> <td>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).</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- Topographic map; Visual inspection (certification) of the proposed site</td> <td></td> </tr> <tr> <td>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</td> <td style="text-align: right;"><input type="checkbox"/> NA</td> </tr> <tr> <td>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</td> <td></td> </tr> <tr> <td>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td>(Applies to permanent pits)</td> <td style="text-align: right;"><input checked="" type="checkbox"/> NA</td> </tr> <tr> <td>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</td> <td></td> </tr> <tr> <td>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.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</td> <td></td> </tr> <tr> <td>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.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- Written confirmation or verification from the municipality; Written approval obtained from the municipality</td> <td></td> </tr> <tr> <td>Within 500 feet of a wetland.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</td> <td></td> </tr> <tr> <td>Within the area overlying a subsurface mine.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</td> <td></td> </tr> <tr> <td>Within an unstable area.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</td> <td></td> </tr> <tr> <td>Within a 100-year floodplain.</td> <td style="text-align: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>- FEMA map</td> <td></td> </tr> </table> | Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells |  | 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). | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - Topographic map; Visual inspection (certification) of the proposed site |  | Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | <input type="checkbox"/> NA | - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image |  | Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | <input type="checkbox"/> Yes <input type="checkbox"/> No | (Applies to permanent pits) | <input checked="" type="checkbox"/> NA | - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image |  | Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site |  | Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - Written confirmation or verification from the municipality; Written approval obtained from the municipality |  | Within 500 feet of a wetland. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site |  | Within the area overlying a subsurface mine. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division |  | Within an unstable area. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map |  | Within a 100-year floodplain. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | - FEMA map |  |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.                                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 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).                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - Topographic map; Visual inspection (certification) of the proposed site                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.                                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| (Applies to temporary, emergency, or cavitation pits and below-grade tanks)                                                                                                                                                                                                       | <input type="checkbox"/> NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| (Applies to permanent pits)                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 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.                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - Written confirmation or verification from the municipality; Written approval obtained from the municipality                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within 500 feet of a wetland.                                                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within the area overlying a subsurface mine.                                                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within an unstable area.                                                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Within a 100-year floodplain.                                                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - 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 are attached.

- ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  
☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12.

**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)

13.

**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
☐ Climatological Factors Assessment  
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ 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  
☐ 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 19.15.17.12 NMAC  
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  
☐ Emergency Response Plan  
☐ Oil Field Waste Stream Characterization  
☐ Monitoring and Inspection Plan  
☐ Erosion Control Plan  
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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 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.D NMAC)

**Instructions:** Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two 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 service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

☐ 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

17.

**Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; 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

☐ 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; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

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

☐ 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

18.

**On-Site 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.

☐ 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 19.15.17.11 NMAC

☐ 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

☐ 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 cannot be achieved)

☐ 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 true, accurate and complete to the best of my knowledge and belief.

Name (Print): Kim Champlin Title: Environmental Representative  
 Signature: Kim Champlin Date: 12-10-08  
 e-mail address: kim\_champlin@xtoenergy.com Telephone: (505) 333-3100

20.

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: [Signature] Approval Date: 4/22/11  
 Title: Environmental Engineer OCD Permit Number: \_\_\_\_\_

21.

**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☐ Closure Completion Date: \_\_\_\_\_

22.

**Closure Method:**

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain.

23.

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

- ☐ Site Reclamation (Photo Documentation)  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique

24.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Proof of Closure Notice (surface owner and division)  
☐ Proof of Deed Notice (required for on-site closure)  
☐ Plot Plan (for on-site closures and temporary pits)  
☐ Confirmation Sampling Analytical Results (if applicable)  
☐ Waste Material Sampling Analytical Results (required for on-site closure)  
☐ Disposal Facility Name and Permit Number  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique  
☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: ☐ 1927 ☐ 1983

25.

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

Submit to Appropriate  
District Office  
State Lease - 4 copies  
For Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|                                                                                                   |                                  |                              |                            |                                  |               |
|---------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|----------------------------|----------------------------------|---------------|
| Operator<br>Giant Exploration & Production Company                                                |                                  |                              | Lease<br>Buena Suerte 32 L |                                  | Well No.<br>1 |
| Upr. Letter<br>L                                                                                  | Section<br>32                    | Township<br>26 North         | Range<br>11 West           | County<br>San Juan               |               |
| Actual Footage Location of Well:<br>1850 feet from the South line and 790 feet from the West line |                                  |                              |                            |                                  |               |
| Ground level Elev.<br>6275 Est.                                                                   | Producing Formation<br>Fruitland | Pool<br>Basin Fruitland Coal |                            | Dedicated Acreage:<br>.320 Acres |               |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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).

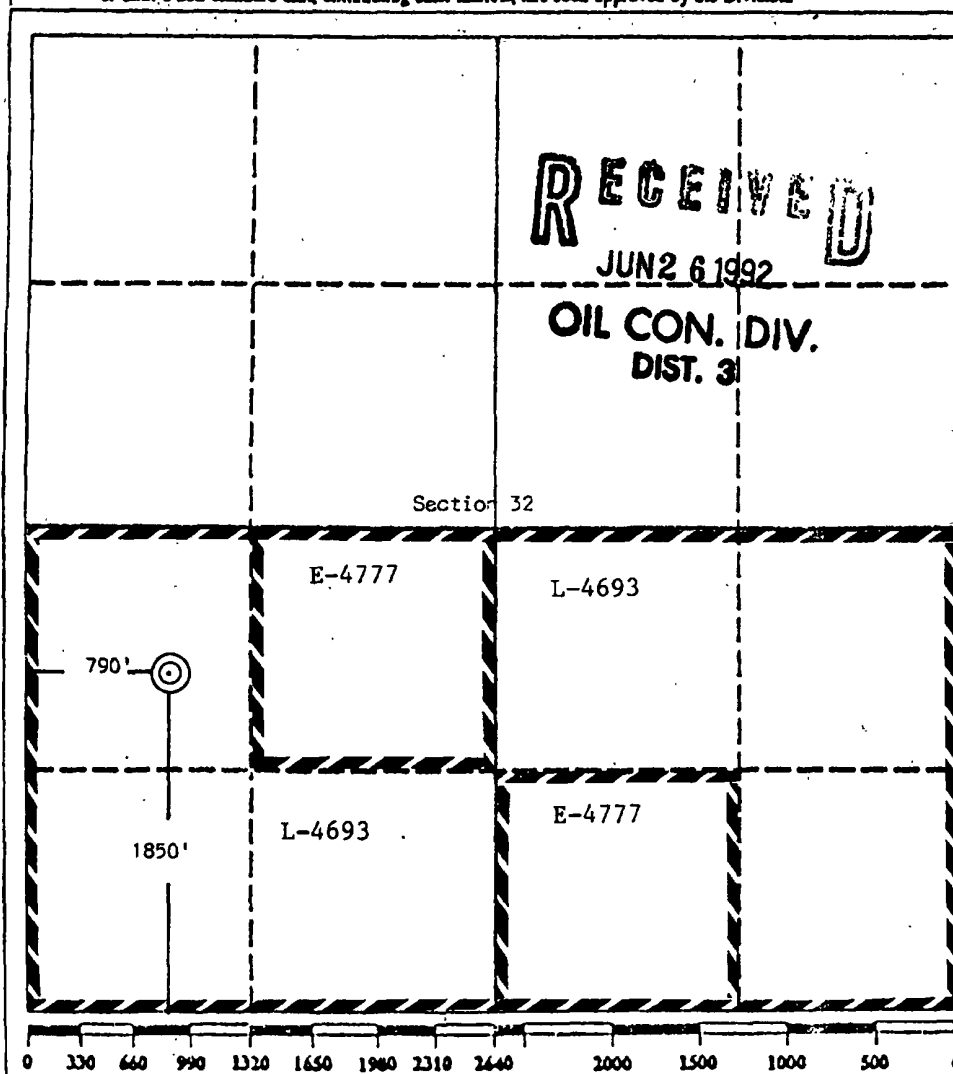
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☒ Yes ☐ No

If answer is "yes" type of consolidation Communitization Agreements (Pending)

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

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



OPERATOR CERTIFICATION

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

Signature

*John C. Corbett*

Printed Name

John C. Corbett

Position

Vice President

Company

Giant Exploration & Prod. Co.

Date

June 25, 1992

SURVEYOR CERTIFICATION

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

Date Surveyed

June 12, 1992

Signature & Seal of Professional Surveyor

*Edgar L. Risenhoover*  
NEW MEXICO  
5979

Certificate No.

5979

Edgar L. Risenhoover

District I  
PO Box 1986, Hobbs, NM 88241-1986  
District II  
PO Drawer DD, Artesia, NM 88211-9719  
District III  
1000 Rio Bruma Rd., Alamogordo, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-104  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

|                                                                                                              |  |                                            |
|--------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|
| Operator name and Address<br>Pro New Mexico, Inc.<br>460 St. Michael's Drive, Ste. 402<br>Santa Fe, NM 87505 |  | OGRID Number<br>018118                     |
| APN Number<br>30-045-28694                                                                                   |  | Pool Name<br>BASIN FRUITLAND COAL          |
| Property Code<br>21064 2116                                                                                  |  | Well Number<br>003                         |
| Pool Code<br>71629                                                                                           |  | Reason for Filing Code<br>Well Name Change |

II. Surface Location

| UL or lot no. | Section | Township | Range | Lot Ids | Feet from the | North/South Line | Feet from the | East/West Line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| L             | 32      | 26N      | 11W   |         | 1850          | South            | 790           | West           | San Juan |

Bottom Hole Location

| UL or lot no. | Section | Township | Range | Lot Ids | Feet from the | North/South Line | Feet from the | East/West Line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| L             | 32      | 26N      | 11W   |         | 1850          | South            | 790           | West           | San Juan |

| Lea Code | Producing Method Code | Gas Consumption Date | C-129 Permit Number | C-129 Effective Date | C-129 Expiration Date |
|----------|-----------------------|----------------------|---------------------|----------------------|-----------------------|
| S        | F                     | 7/93                 |                     |                      |                       |

III. Oil and Gas Transporters

| Transporter OGRID | Transporter Name and Address | FOD | O/G | FOD ULSTR Location and Description |
|-------------------|------------------------------|-----|-----|------------------------------------|
|                   |                              |     |     |                                    |
|                   |                              |     |     |                                    |
|                   |                              |     |     |                                    |
|                   |                              |     |     |                                    |
|                   |                              |     |     |                                    |
|                   |                              |     |     |                                    |
|                   |                              |     |     |                                    |

RECEIVED  
JUL 16 1997

IV. Produced Water

| FOD | FOD ULSTR Location and Description |
|-----|------------------------------------|
|     |                                    |

OIL CON. DIV.  
DIST. 3

V. Well Completion Data

| Spud Date | Ready Date | TD | PBTD | Perforations |
|-----------|------------|----|------|--------------|
|           |            |    |      |              |
|           |            |    |      |              |
|           |            |    |      |              |
|           |            |    |      |              |
|           |            |    |      |              |

VI. Well Test Data

| Date New OIL | Gas Delivery Date | Test Date | Test Length | Tbg. Pressure | Cog. Pressure |
|--------------|-------------------|-----------|-------------|---------------|---------------|
|              |                   |           |             |               |               |
|              |                   |           |             |               |               |
|              |                   |           |             |               |               |

|                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.<br>Signature: <i>Jolene Dicks</i><br>Printed name: Jolene Dicks<br>Title: Contract Rep<br>Date: 7/14/97 |  | OIL CONSERVATION DIVISION<br>Approved by: SUPERVISOR DISTRICT # 3<br>Title: <i>Frank J. [Signature]</i><br>Approval Date: JUL 14 1997<br>Phone (505) 988-4171 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                            |              |       |      |
|--------------------------------------------------------------------------------------------|--------------|-------|------|
| If this is a change of operator fill in the OGRID number and name of the previous operator |              |       |      |
| Previous Operator Signature                                                                | Printed Name | Title | Date |
|                                                                                            |              |       |      |



**Pit Permit  
Siting Criteria  
Information Sheet**

|              |             |
|--------------|-------------|
| Client:      | XTO Energy  |
| Project:     | Pit Permits |
| Revised:     | 21-Nov-08   |
| Prepared by: | Brooke Herb |

|                                                                                |                                                                                                    |                       |                                                       |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|
| API#:                                                                          | 3004528694                                                                                         | USPLSS:               | T26N,R11W,S32L                                        |
| Name:                                                                          | GRACIA STATE 32-L #3                                                                               | Lat/Long:             | 36.4424, -108.03304                                   |
| Depth to groundwater:                                                          | > 100'                                                                                             | Geologic formation:   | Nacimiento Formation                                  |
| Distance to closest continuously flowing watercourse:                          | 16.79 miles S of San Juan River                                                                    |                       |                                                       |
| Distance to closest significant watercourse, lakebed, playa lake, or sinkhole: | 1311' E of small secondary tributary of Gallegos Canyon Wash; 1.39 miles W of Gallegos Canyon Wash |                       |                                                       |
| Permanent residence, school, hospital, institution or church within 300'       | No                                                                                                 | Soil Type:            | Entisols                                              |
| Domestic fresh water well or spring within 500'                                | No                                                                                                 | Annual Precipitation: | 8.21" - Farmington; 10.41" - Otis; 8.71" - Bloomfield |
| Any other fresh water well or spring within 1000'                              | No                                                                                                 | Precipitation Notes:  | Historical Daily Max 4.19" (Bloomfield)               |
| Within incorporated municipal boundaries                                       | No                                                                                                 | Attached Documents:   | Groundwater report and Data; FEMA Flood Zone Map      |
| Within defined municipal fresh water well field                                | No                                                                                                 |                       | Aerial Photo, Topo Map, Mines Mills and Quarries Map  |
| Wetland within 500'                                                            | No                                                                                                 | Mining Activity:      | none near                                             |
| Within unstable area                                                           | No                                                                                                 |                       |                                                       |
| Within 100 year flood plain                                                    | No - FEMA Flood Zone 'X'                                                                           |                       |                                                       |

Additional Notes:

## **GRACIA STATE 32-L #3 Below Ground Tank Hydrogeologic Report for Siting Criteria**

### **General Geology and Hydrology**

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the northernmost Bisti region of the San Juan Basin within an area dominated by irrigated fields of the Navajo Indian Irrigation Project. The predominant geologic formation is the Nacimient 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 Nacimient Formation lies at the surface and grades into the Animas Formation to the west. Thickness of the Nacimient ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimient Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River.

The prominent soil type at the proposed site are entisols and aridisols, which are defined as soils that exhibit little to no any profile development ([www.emnrd.state.nm.us](http://www.emnrd.state.nm.us)). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area.

The climate of the region is arid, averaging just over 8 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center [www.wrcc.dri.edu](http://www.wrcc.dri.edu)).

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

## **Site Specific Hydrogeology**

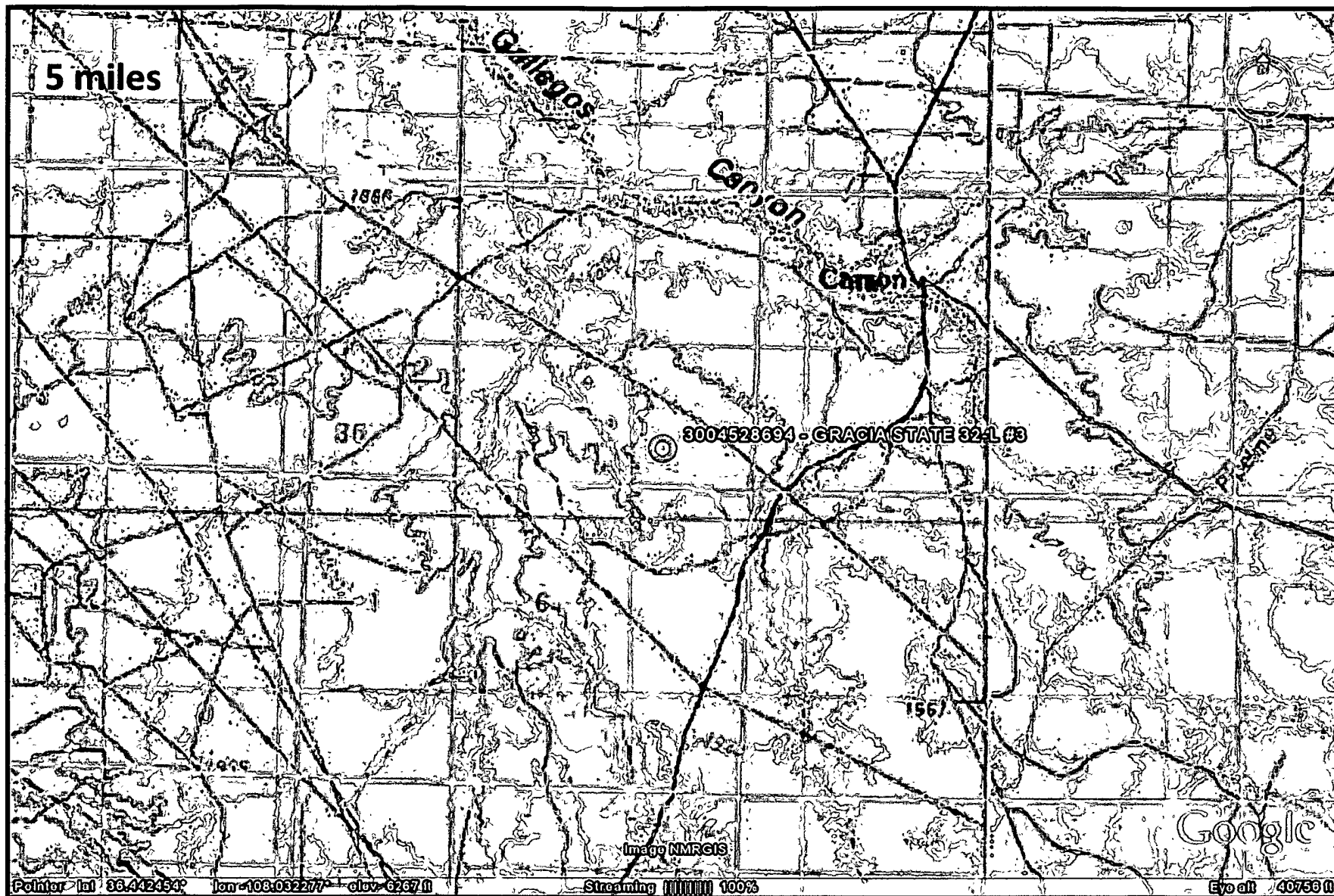
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

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

The site in question is located on the relatively flat mesa top at an elevation of approximately 6278 feet and is approximately 1.39 miles west of Gallegos Canyon. Broad shaley hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Gallegos Canyon. The significant distance between the Canyon and the site, as well as an elevation difference of about 100 feet suggest groundwater is greater than 100 feet at the proposed site.

Lined channels associated with the Navajo Irrigation Project supply water for the fields surrounding the proposed site, which are characterized by center-pivot irrigation patterns. During spring and summer, irrigation practices often produces shallow perched aquifers that are not defined in published literature. These shallow zones of water are not continuous and are not saturated year round.

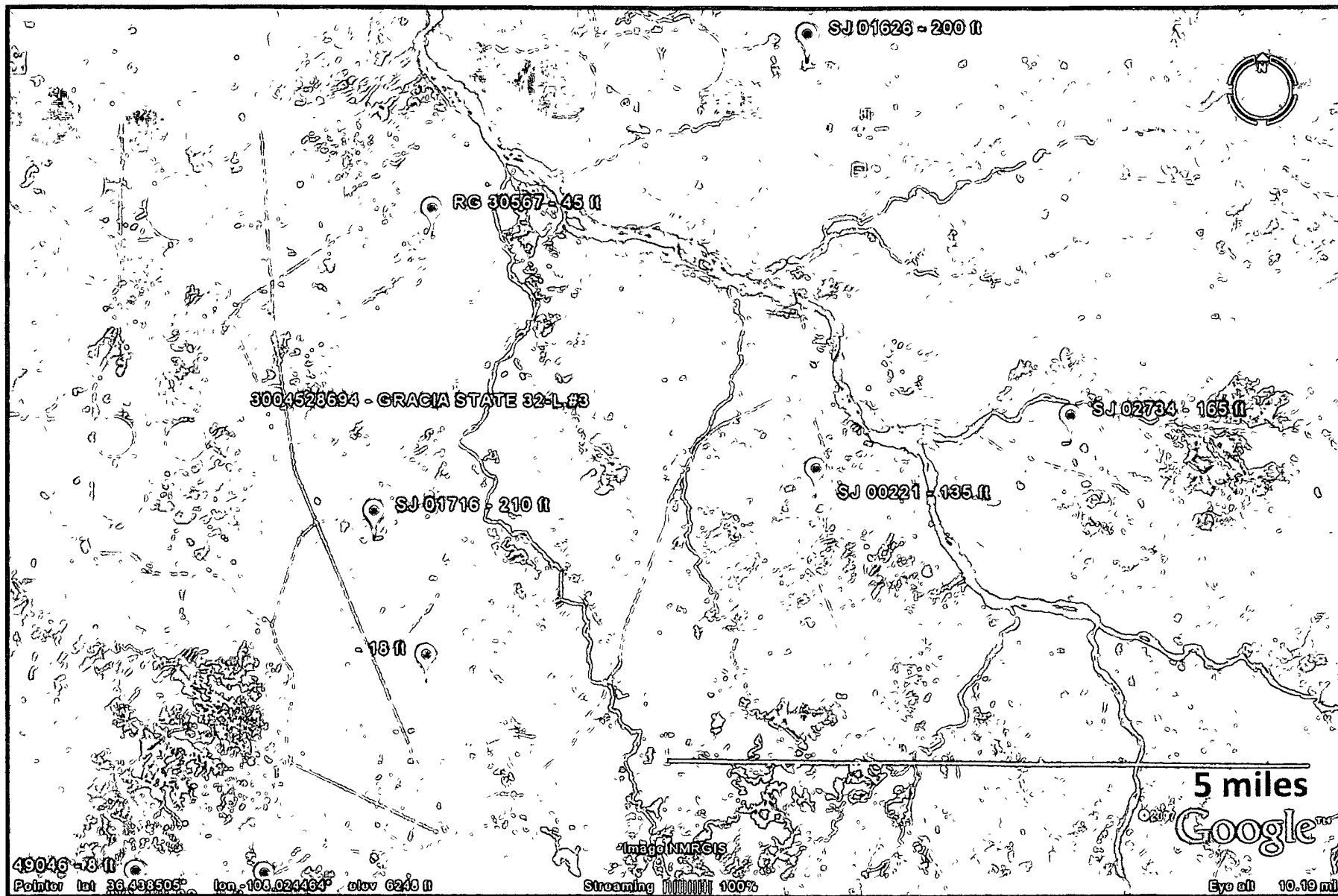
Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Wells located at similar elevations within the irrigated area contain groundwater greater than 100 feet deep. A map showing the location of wells in reference to the proposed pit location is attached.



Lodestar Services, Inc  
PO Box 4465  
Durango, CO 81302

GRACIA STATE 32-L #3  
T26N, R11W, S32L  
San Juan County, NM

Topographic Map



Lodestar Services, Inc  
PO Box 4465  
Durango, CO 81302

GRACIA STATE 32-L #3  
T26N, R11W, S32L  
San Juan County, NM

iWaters Groundwater  
Data Map

*New Mexico Office of the State Engineer*  
**POD Reports and Downloads**

---

Township:  Range:  Sections:

**WATER COLUMN REPORT 11/21/2008**

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

| POD Number      | Tws | Rng | Sec | q | q | q | Zone | X | Y | Depth<br>Well | Depth<br>Water | Water (in feet)<br>Column |
|-----------------|-----|-----|-----|---|---|---|------|---|---|---------------|----------------|---------------------------|
| <u>SJ 01626</u> | 26N | 11W | 16  | 4 | 3 |   |      |   |   | 255           | 200            | 55                        |
| <u>SJ 02734</u> | 26N | 11W | 35  | 4 | 3 | 2 |      |   |   | 275           | 165            | 110                       |

Record Count: 2

| POD Number      | Tws | Rng | Sec | q | q | q | Zone | X | Y | Well | Water | Column |
|-----------------|-----|-----|-----|---|---|---|------|---|---|------|-------|--------|
| <u>SJ 00221</u> | 25N | 11W | 04  | 2 |   |   |      |   |   | 198  | 135   | 63     |

Record Count: 1

**New Mexico Office of the State Engineer  
POD Reports and Downloads**

Township:  Range:  Sections:

**WATER COLUMN REPORT 11/21/2008**

| (quarters are 1=NW 2=NE 3=SW 4=SE) |     |     |     |   |   |   |      |        |         | Depth | Depth | Water (in feet) |
|------------------------------------|-----|-----|-----|---|---|---|------|--------|---------|-------|-------|-----------------|
| (quarters are biggest to smallest) |     |     |     |   |   |   |      |        |         | Well  | Water | Column          |
| POD Number                         | Tws | Rng | Sec | q | q | q | Zone | X      | Y       |       |       |                 |
| <u>RG 76392</u>                    | 25N | 12W | 11  |   |   |   | C    | 684250 | 1972400 | 102   | 19    | 83              |
| <u>RG 47243</u>                    | 25N | 12W | 12  | 4 |   |   |      |        |         | 65    | 18    | 47              |
| <u>RG 49046</u>                    | 25N | 12W | 22  |   |   |   |      |        |         | 40    | 8     | 32              |
| <u>RG 43582</u>                    | 25N | 12W | 23  |   |   |   |      |        |         | 50    | 8     | 42              |
| <u>RG 61107</u>                    | 25N | 12W | 27  | 3 | 3 |   | C    | 678500 | 1958950 | 130   | 50    | 80              |
| <u>RG 63120</u>                    | 25N | 12W | 31  |   |   |   | C    | 689100 | 1949800 | 60    | 30    | 30              |
| <u>SJ 01716</u>                    | 25N | 12W | 01  | 3 | 2 |   |      |        |         | 403   | 210   | 193             |
| <u>SJ 00079</u>                    | 25N | 12W | 13  | 4 |   |   |      |        |         | 2550  |       |                 |

Record Count: 8

*New Mexico Office of the State Engineer*  
**POD Reports and Downloads**

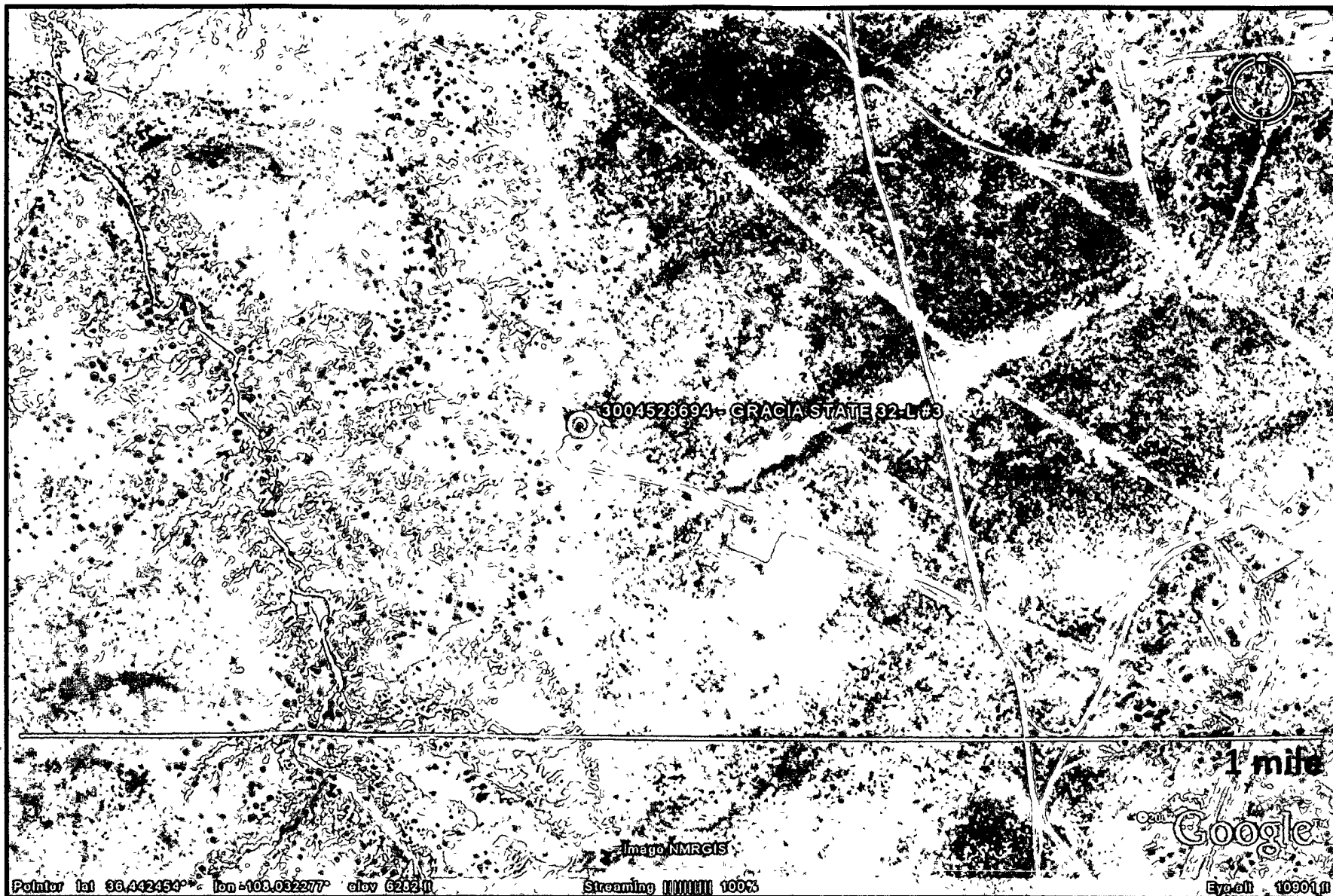
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Township:  Range:  Sections:

**WATER COLUMN REPORT 11/21/2008**

| POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are biggest to smallest) |     |     |       | Zone | X | Y | Depth | Depth | Water (in feet)<br>Column |
|------------|--------------------------------------------------------------------------|-----|-----|-------|------|---|---|-------|-------|---------------------------|
|            | Tws                                                                      | Rng | Sec | q q q |      |   |   | Well  | Water |                           |
| RG 50222   | 26N                                                                      | 12W | 04  |       |      |   |   | 258   | 180   | 78                        |
| RG 30567   | 26N                                                                      | 12W | 25  | 2     |      |   |   | 102   | 45    | 57                        |
| SJ 01058   | 26N                                                                      | 12W | 03  | 1 4   |      |   |   | 254   | 220   | 34                        |

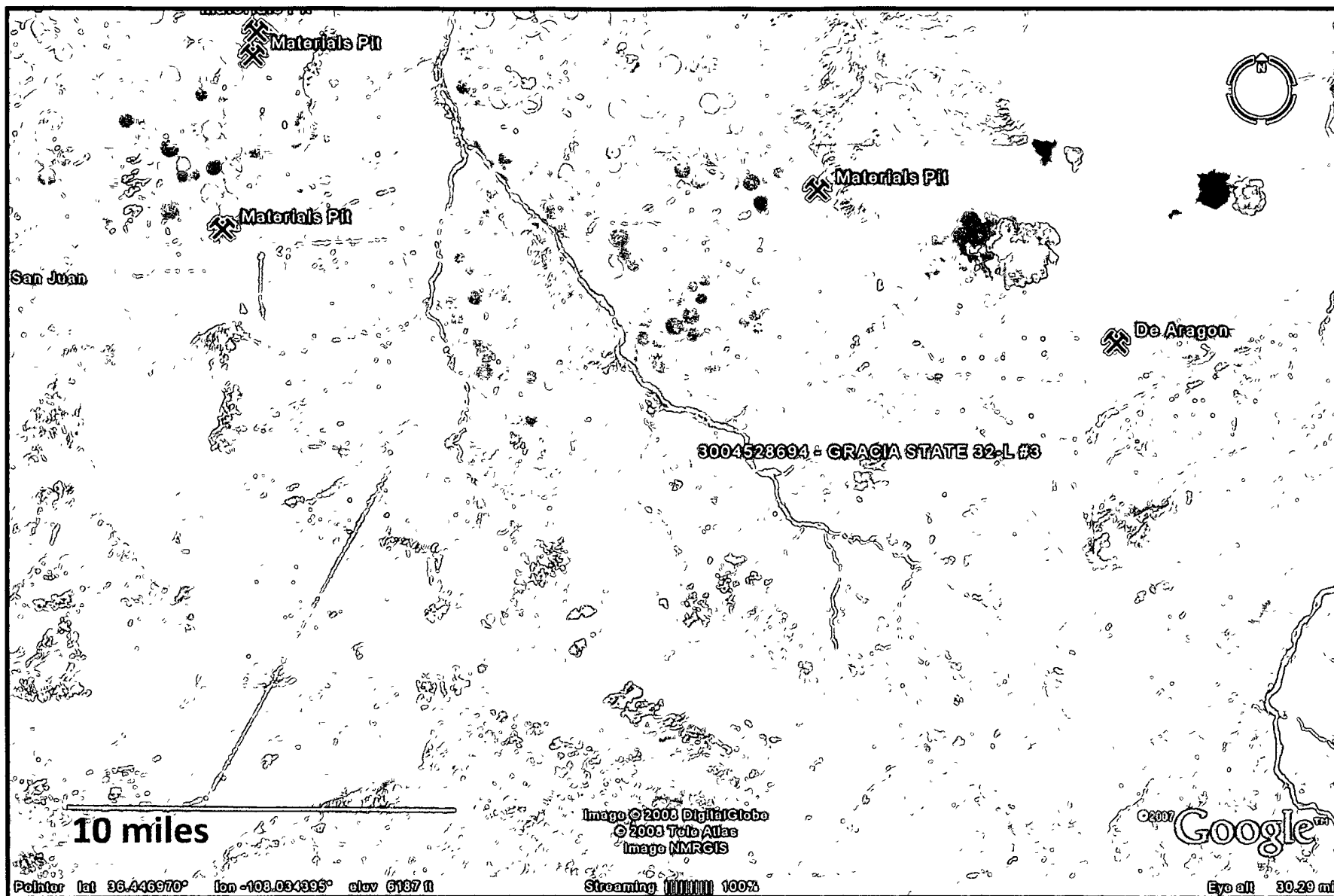
Record Count: 3



Lodestar Services, Inc  
PO Box 4465  
Durango, CO 81302

GRACIA STATE 32-L #3  
T26N, R11W, S32L  
San Juan County, NM

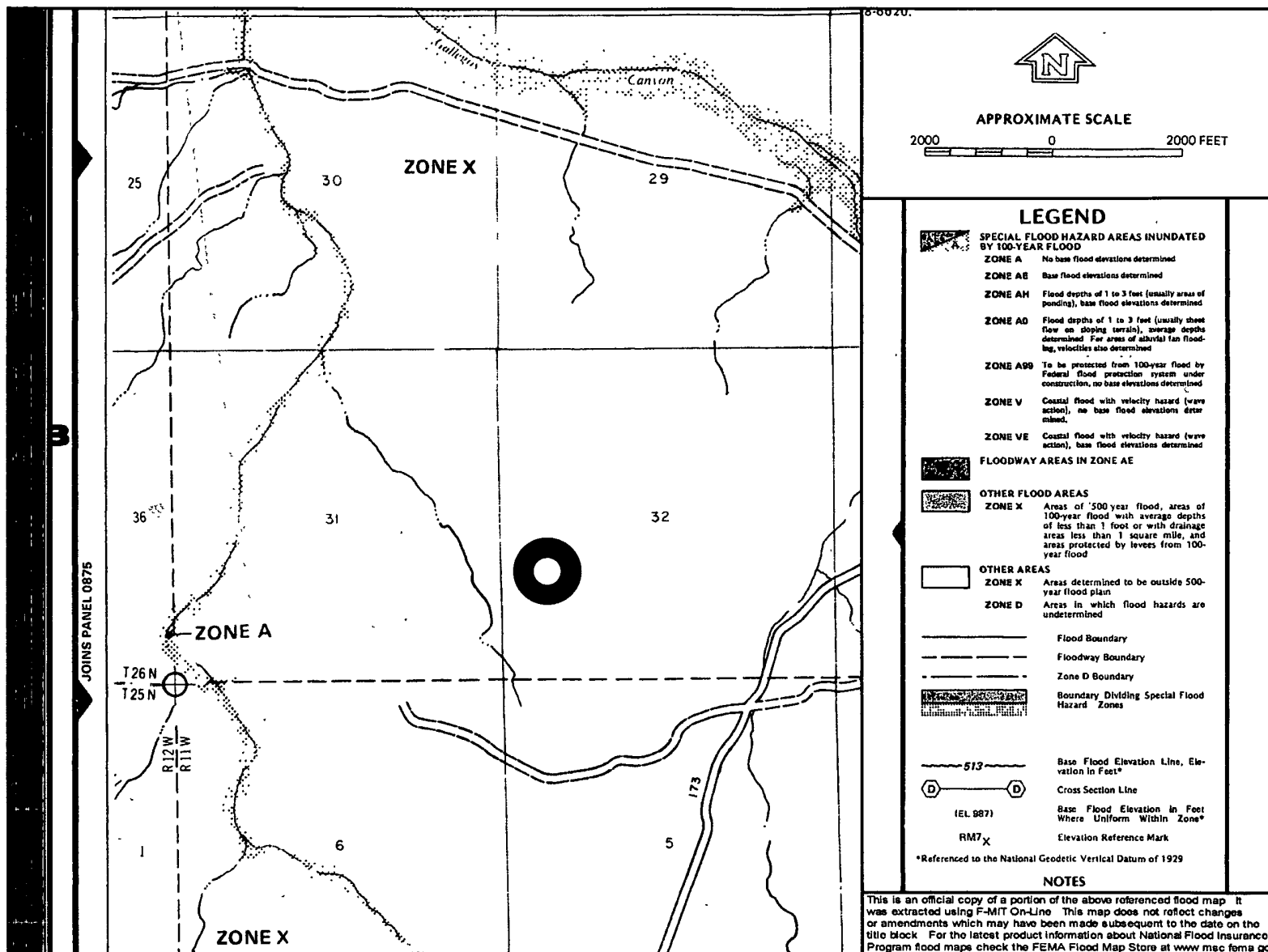
Aerial Photograph



Lodestar Services, Inc  
PO Box 4465  
Durango, CO 81302

GRACIA STATE 32-L #3  
T26N, R11W, S32L  
San Juan County, NM

Mines, Mills, and  
Quarries Map



Lodestar Services, Inc  
PO Box 4465  
Durango, CO 81302

GRACIA STATE 32-L #3  
T26N, R11W, S32L  
San Juan County, NM

FEMA Flood Zone Map

**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
2. 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.
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 division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
- i. Proof of closure notice to division and surface owner;
  - ii. Details on capping and covering, where applicable,
  - iii. Inspection reports;
  - iv. Confirmation sampling analytical results;
  - v. Disposal facility name(s) and permit number(s),
  - vi. Soil backfilling and cover installation;
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
  - viii. Photo documentation of the site reclamation.

**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.

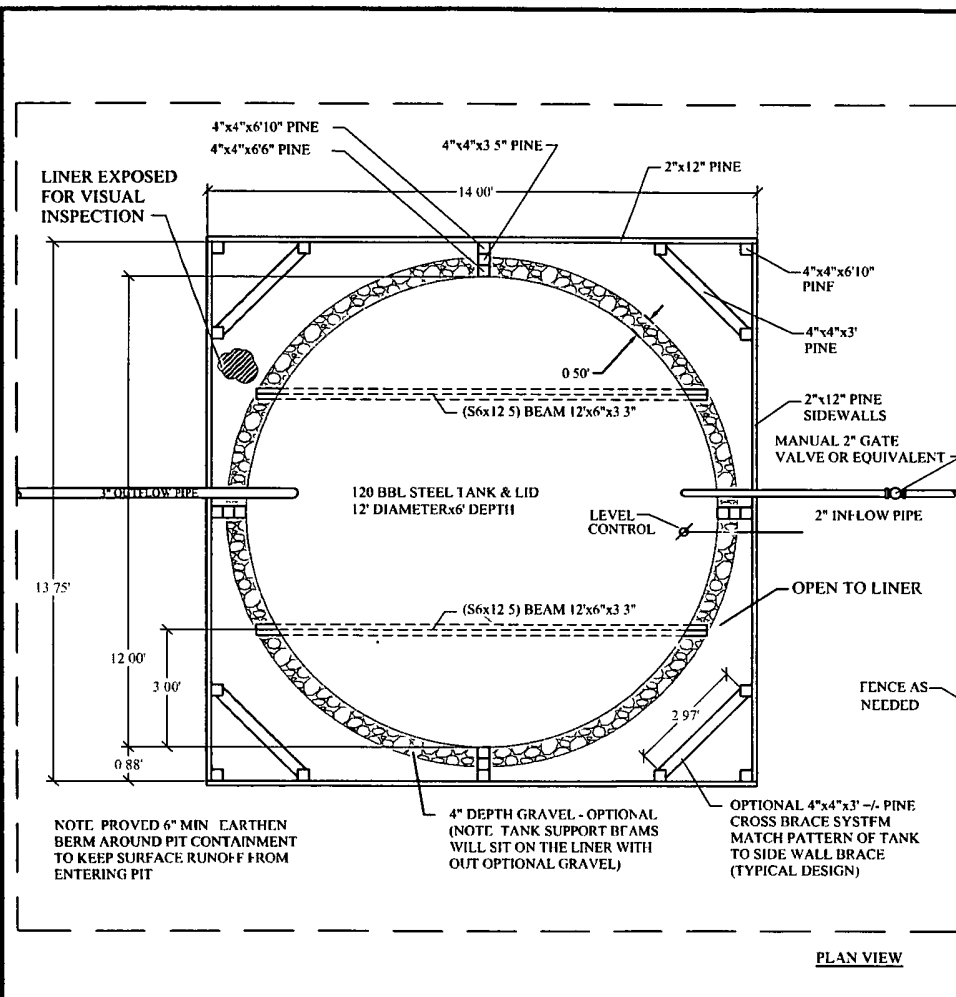
**General Plan**

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.
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 below-grade 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  $1 \times 10^{-9}$  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.



#### \*DESIGN INFORMATION\*

- THE TANK WILL HAVE AN EXPANDED METAL OR SOLID VAULTED TOP WITH VENT PER XTO SITE SPECIFIC DESIGN REQUIREMENTS, BUILT BY TANK SUPPLIER
- GEOMEMBRANE LINER WILL COMPLY WITH SUBPARAGRAPH (a) OF PARAGRAPH (4) OF SUBSECTION 1 OF 19 15 17 11 NMAC
- BASE WILL BE LEVEL AND FREE OF ROCKS, DEBRIS, SHARP EDGES, OR IRREGULARITIES PRIOR TO SAND PLACEMENT
- THE LEVEL INDICATOR WILL HAVE AN AUTOMATIC SHUT OFF CONTROL FOR THE INLET PIPE AT 28" BELOW TOP OF TANK

#### WOOD PARTS LIST FOR SIDEWALLS

- 16 EA 2"x12"x14'
- 16 EA 2"x12"x13' 9"
- 8 EA 4"x4"x6'10"
- 4 EA 4"x4"x6'6"
- 16 EA 4"x4"x3' 5"

#### OPTIONAL CROSS BRACES

- 8 EA 4"x4"x6'10"
- 16 EA 4"x4"x3' +/-

#### LINER

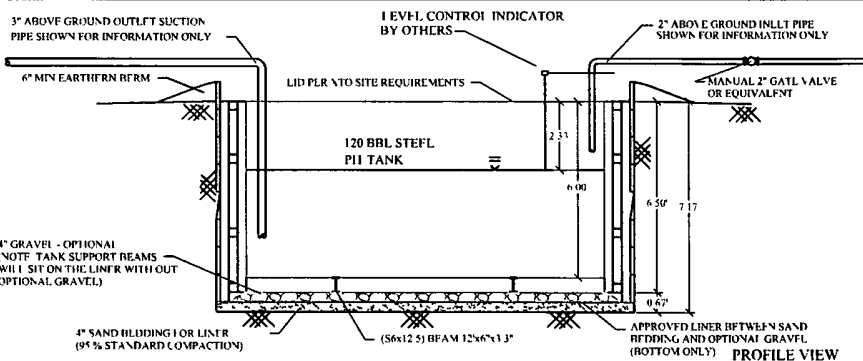
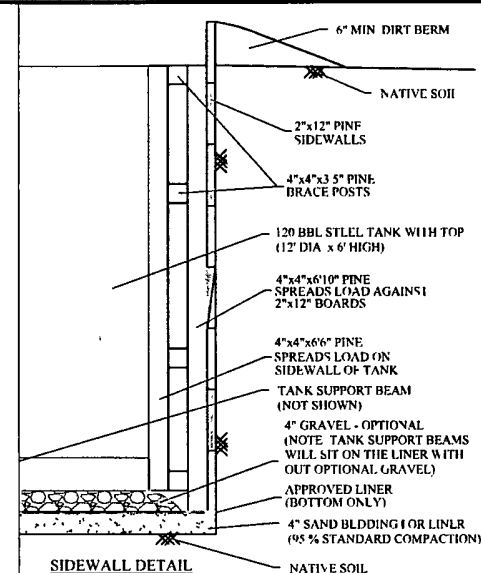
- BOTTOM 13' 6"x13' 6"

#### TANK A36 CARBON STEEL

- 3/8" SIDES
- 1/2" BOTTOM

#### 6" PEDESTAL

- 2 EA (S6x12.5) BEAM 12' x 6" x 3" 3" (MORE MAY BE NEEDED IF REQUIRED IN THE FIELD)



#### NOTE

DRAFTED PER XTO DESIGN

HIGH LEVEL SHUT OFF WILL BE SET AT 28" BENEATH TOP OF TANK (AT 73.95 DBL @ SHUT OFF)

OUTER EDGE OF LINER WILL BE LEFT OPEN AND UNOBSTRUCTED TO ALLOW FOR VISUAL INSPECTION OF LINER FOR EVIDENCE OF SPILLS

ADJUST DIMENSIONS AS NEEDED TO FIELD FIT TANK IF DIFFERENT THAN SHOWN, IF REQUIRED

OWNER / OPERATOR

XTO ENERGY

**XTO ENERGY**

TYPICAL DESIGN  
120 BBL PIT TANK  
CONTAINMENT

| PROJ NUMBER | DRAWING NUMBER | SCALE    | REVISION |
|-------------|----------------|----------|----------|
| 40-0112     | XTO PIT TANK   | AS SHOWN |          |

Z:\Site\XTO\_PIT TANK CAD Typical Design\XTO PIT TANK.dwg XTO PIT TANK.dwg

**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

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

# MONTHLY BELOW GRADE TANK INSPECTION FORM

API No.: \_\_\_\_\_

Sec: \_\_\_\_\_ Township: \_\_\_\_\_

**Range:** \_\_\_\_\_

[illegible]

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