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

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.

Proposed Alternative Method Permit or Closure Plan Application

| 110posea 1 internative ivietno | a 1 diffit of Closure 1 lan 1 ppiration |
|---|---|
| Existing BGT Closure of a pit, closed-lo Modification to an existin Closure plan only submitt | red for an existing permitted or non-permitted pit, closed-loop system, |
| below-grade tank, or proposed alternative meth | od |
| Instructions: Please submit one application (Form C-144) pe | er individual pit, closed-loop system, below-grade tank or alternative request |
| | of liability should operations result in pollution of surface water, ground water or the comply with any other applicable governmental authority's rules, regulations or ordinances |
| i. | comply with any other appricable governmental authority satures, regulations of ordinances |
| Operator: XTO ENERGY, INC. | OGRID #: 5380 |
| Address: #382 County Road 3100, Aztec, NM 87410 | |
| Facility or well name:Mudge A #72 | |
| API Number: 30-045-28296 | OCD Permit Number: |
| U/L or Qtr/Qtr Section _ 7 Township | 27N Range 11W County: San Juan |
| Center of Proposed Design: Latitude 36.592623 | Longitude 108.042605 NAD: ☐1927 🔀 1983 |
| Surface Owner: X Federal State Private Tribal Trust or Indi | an Allotment |
| 2. | |
| Pit: Subsection F or G of 19.15.17.11 NMAC | |
| Temporary: Drilling Workover | |
| ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A | |
| Lined Unlined Liner type: Thicknessmil LI | LDPE HDPE PVC Other |
| ☐ String-Reinforced | |
| Liner Seams: Welded Factory Other | Volume: bbl Dimensions: L x W x D |
| 3. | |
| Closed-loop System: Subsection H of 19.15.17.11 NMAC | |
| Type of Operation: P&A Drilling a new well Workover or | Drilling (Applies to activities which require prior approval of a permit or notice of |
| intent) | 4234567e |
| Drying Pad Above Ground Steel Tanks Haul-off Bins | J Other |
| Lined Unlined Liner type: Thickness mil | BECEIVED |
| Liner Seams: Welded Factory Other Other | Other Other |
| 4. | Z Z |
| | ed Water OIL CONS. DIV. DIST. 3 |
| Volume: 85 bbl Type of fluid: Produce | liner 6-inch lift and automatic overflow shut-off |
| Tank Construction material: Steel | - SESSIZOZ61/51 |
| ☐ Secondary containment with leak detection ☐ Visible sidewalls, | mor, o mor me and anti-mark of the state of |
| · | Visible sidewalls, secondary containment, automatic overflow shut off |
| Liner type: Thicknessmil | C |
| 5. | |
| Alternative Method: | |
| Submittal of an exception request is required. Exceptions must be sub | omitted to the Santa Fe Environmental Bureau office for consideration of approval. |

| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify | hospital, | | | | | |
|---|-----------------------------|--|--|--|--|--|
| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible) | | | | | | |
| 8. Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.3.103 NMAC | | | | | | |
| Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | office for | | | | | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system. | priate district pproval. | | | | | |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ⊠ No | | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ⊠ No | | | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☑ No ☐ NA | | | | | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ☑ NA | | | | | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☑ No | | | | | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | | | | | | |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ⊠ No | | | | | |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ⊠ No | | | | | |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ⊠ No | | | | | |
| Within a 100-year floodplain FEMA map | ☐ Yes ⊠ No | | | | | |

| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are |
|--|
| attached. ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC |
| ☑ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 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) |
| above ground steet tunks or naut-ojj 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 ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if magacilities 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 | | | | | | | | | | |
| 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 provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justific demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | ct office or may be | | | | | | | | | |
| Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA | | | | | | | | | |
| Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | | | | | | | | | | |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | Yes No | | | | | | | | | |
| Within a 100-year floodplain FEMA map | ☐ Yes ☐ No | | | | | | | | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 19.15.17.13 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 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 | 5.17.11 NMAC | | | | | | | | | |

| Operator Application Certification: I hereby certify that the information submitted with this application is true, acc | curate and complete to the best of my knowledge and belief. |
|---|---|
| | |
| Name (Print):Kim Champlin | Date:August 19, 2008 |
| e-mail address:kim_champlin@xtoenergy.com | Telephone:(505) 333-3100 |
| OCD Approval: Permit Application (including closure plan) Closure | Plan (only) OCD Conditions (see attachment) |
| OCD Representative Signature: Rund Oll | Approval Date: 10-7-08 |
| Title: Enviro (spec | OCD Permit Number: |
| 21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection Instructions: Operators are required to obtain an approved closure plan prion The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the | or to implementing any closure activities and submitting the closure report. If the completion of the closure activities. Please do not complete this closure activities have been completed. |
| | Closure Completion Date: |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alter If different from approved plan, please explain. | rnative Closure Method [] Waste Removal (Closed-loop systems only) |
| Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, d two facilities were utilized. Disposal Facility Name: | rilling fluids and drill cuttings were disposed. Use attachment if more than Disposal Facility Permit Number: |
| Disposal Facility Name: | |
| Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) No | or in areas that will not be used for future service and operations? |
| Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | ations: |
| Closure Report Attachment Checklist: Instructions: Each of the following 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 Lon | e) |
| 25. | |
| Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require | |
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-162 Revised 1-1-8

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1000 Rio Brazos | ME., AZIBC, | Ali Di | istances must be from the outer boundaries o | of the section | |
|--------------------|---|---|---|------------------|--|
| Operator MADA | THON O | IL COMPANY | MUDGE A | | Well No. |
| | | | | | |
| Una Letter L | Section | | 7 N Range | | County San Juan |
| Actual Footage L | ocation of | · | | NMP. | Mi |
| 1850 | | South | 990 | End for | West |
| Ground level Ele | | om the Soutcin | lipe and 990 | feet from | Dad'seard Assesses |
| 6133 | | Fruitland Coa | 1 Basin Fruitla | and Coal | 320 3 Acres |
| 2. lf n 3. lf n | nore than or nore than or tigation, for | no lease is dedicated to the well no lease of different ownership no-pooling, etc.? | rell by colorus pencil or hechure marks on the pla 1, outline each and identify the ownership thereof is dedicated to the well, have the interest of all or | (hoth as to worl | |
| this fo | orm if necom | list the owners and tract descri | narver is "yes" type of consolidation ptions which have actually been consolidated. (U If interests have been consolidated (by community | | |
| | | | erest, has been approved by the Division. | | , , , , , , , , , , , , , , , , , , , |
| 330 640 | 900 1320 | 1680 1680 2310 2640 | 2010 1800 1000 860 | 2 9 | OPERATOR CERTIFICATIO |
| | NBS | 9°58'E | 79.35em. | - | I haveby certify that the infor- |
| 14.85 | | 20.00 | 400- | | contained herein in true and complete best of my knowledge and belief. |
| | ! | 1 | Ì | } ! | The state of the s |
| LOT No. (TY | p.) | | 1 | | Signature |
| 1 | i | - | j. | | Status |
| • | 1 | | 1 | | Printed Name |
| | 1 | | DECEIVE | In 1 | S. L. Atnipp Position |
| | 1 | | DEGEIAE | ЫĞ | |
| | <u>+</u> | + | | FR 10 | Drilling Superintende |
| | ! | | SEP 27 1990 | 30.00c. | Marathon Oil Company |
| | 1 | , | OIL CON. DIV | 1 - 1 | Date Of G |
| 2 | 1 | | - · - | '• | 8/21/90 |
| | 1 | ĺ | i DIST. 3 | | SURVEYOR CERTIFICATION |
| | 1 | | i | | |
| | ĺ | 54 | , I | | I hereby certify that the well location |
| | + | (7 | } | | on this plat was plotted from field a actual surveys made by me or und |
| | 1 | | | | supervison, and that the same is on |
| | 1 | | 1 | | correct to the best of my bijorded, belief. 7-25-00 |
| 3 | 1 | | 1 | | 7-23-30 |
| 990' | 🛉 i | 1 | 1 | [3 | William & Mahrike II |
| , ,,, | 1 | İ | l | [9 | |
| | 1 | } | ļ | હ | Profession Street MEXICAL |
| | 850′ | | | 8 | #8466 |
| → | 1 | | j 1 | | Contilicate No. 200 ESSIONAL LAND |
| | ! | | ! | | |
| 19.46 | 1 1 | 20.00 | 40,03 | | |

| Lodestar Services, Inc. |
|--------------------------------|
| PO Box 4465, Durango, CO 81302 |

Pit Permit Siting Criteria Information Sheet

| Client: | XTO Energy | |
|--------------|-------------|---|
| Project: | Pit Permits | ļ |
| Revised: | 15-Aug-08 | |
| Prepared by: | Ashley Ager | |

| PU Box 4405, Durango, | , 60 01302 | Information Sheet | Prepared by: | Ashley Ager | | |
|---|-------------|---|------------------------------------|---|--|--|
| API#: | | 30-045-28296 | USPLSS: | 27N 11W S7 | | |
| Name: | MU | DGE A No. 0072 | Lat/Long: | 36.592623, -108.042605 | | |
| Depth to groundwater: | | >100' | Geologic formation: | Nacimiento Formation (Tn) | | |
| Distance to closest continuously flowing watercourse: | i | s N to 'San Juan River' | | ammanadada un destructura de la contrata de la cont | | |
| Distance to closest significant watercourse, lakebed, playa lake, or sinkhole: | reservoir/ | 00' WSW to small pond; 13,970' WNW to /NAPI Main Canal' | | | | |
| | | | Soil Type: | Entisols | | |
| Permanent residence, school, hospital, institution or church within 300' | : | NO | | | | |
| | | | Annuar Precipitation: | Farmington: 8.21", Bloomfield: 8.71", Otis, 10.41" | | |
| Domestic fresh water well or spring within 500' | iWaters: SJ | 06741 is a production well located on site | Precipitation Notes: | Historical daily max: Bloomfield (4.19") | | |
| Any other fresh water well or spring within 1000' | | NO | , | | | |
| Within incorporated municipal boundaries | | NO | Attached Documents: | 27N11W_iwaters.pdf, 27N12W_iwaters pdf, , 26N11W_iWaters.pdf, 26N12W_iWaters pdf, 28N10W_iWaters pdf, 28N11W_iWaters pdf, 28N12W_iWaters pdf | | |
| Within defined municipal fresh water well field | | NO | FM3500640725B_30- 045-28296 jpg | 30-045-28296_topo-PLS.jpg, 30-045-mudge_gEarth-PLS jpg, 30-045-mudge_gEarth-iWaters jpg, | | |
| Wetland within 500' | | NO | Mining Activity: | None Near | | |
| Within unstable area | | NO | | NM_NRD-MMD_MinesMillQuarries_30-045-28296 jpg | | |
| | | 110 | <u> </u> | | | |
| Within 100 year flood plain NO - | | - FEMA Zone 'X' | ; | | | |
| Additional Notes: | | | | | | |
| | | edge of center-pivot igated cropland | | | | |

Mudge A #72 Below Ground Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the northernmost Bisti region of the San Juan Basin within an area dominated by irrigated fields of the Navajo Indian Irrigation Project. The predominant geologic formation is the Nacimiento Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the Nacimiento Formation lies at the surface and grades into the Animas Formation to the west. Thickness of the Nacimiento ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River.

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

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

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

Site Specific Hydrogeology

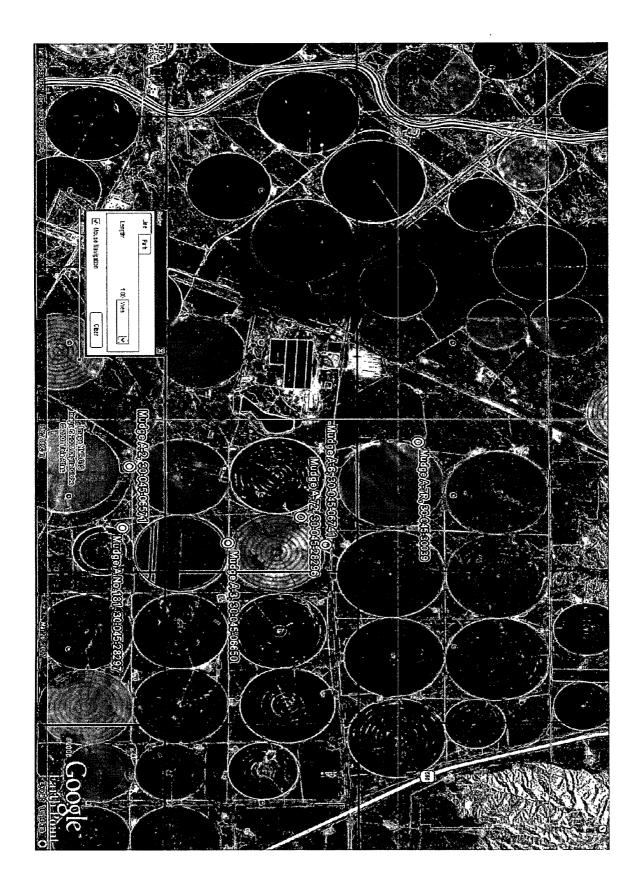
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

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

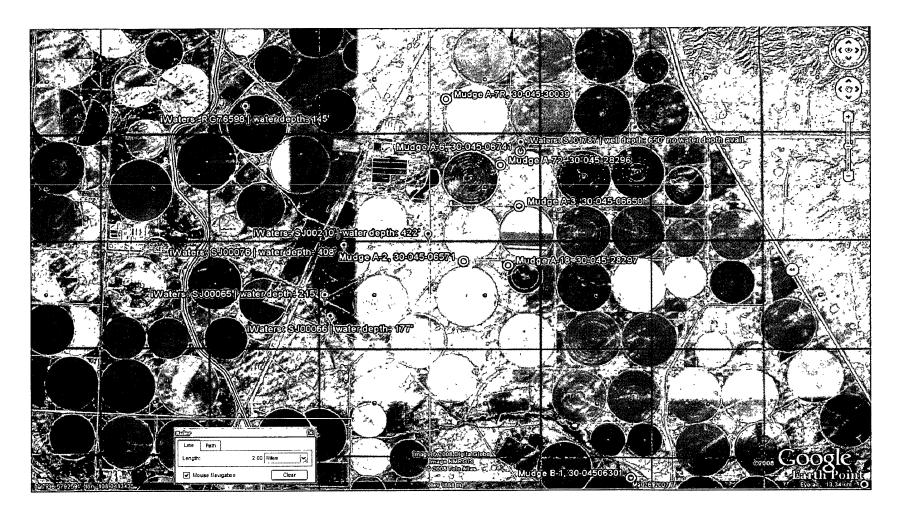
The site in question is located on the relatively flat mesa top at an elevation of approximately 6095 feet and approximately 4.5 miles east of Gallegos Canyon. Broad shalely hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Gallegos Canyon. But the significant distance between the Canyon and the site, as well as an elevation difference of almost 400 feet suggest groundwater is greater than 100 feet at the proposed site.

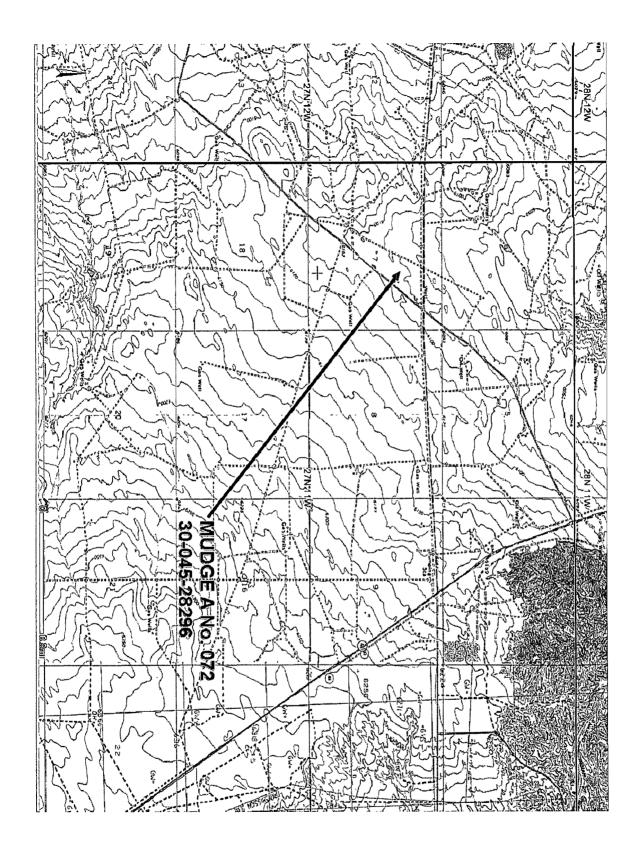
Lined channels associated with the Navajo Irrigation Project supply water for the fields surrounding the proposed site, which are characterized by center-pivot irrigation patterns. During spring and summer, irrigation practices often produces shallow perched aquifers that are not defined in published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

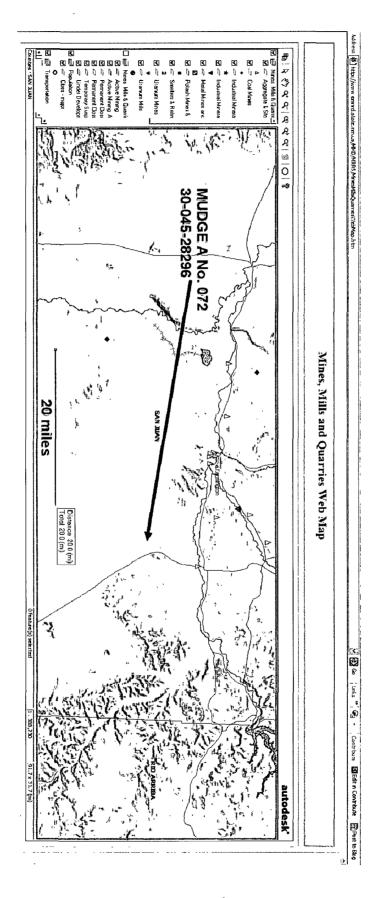


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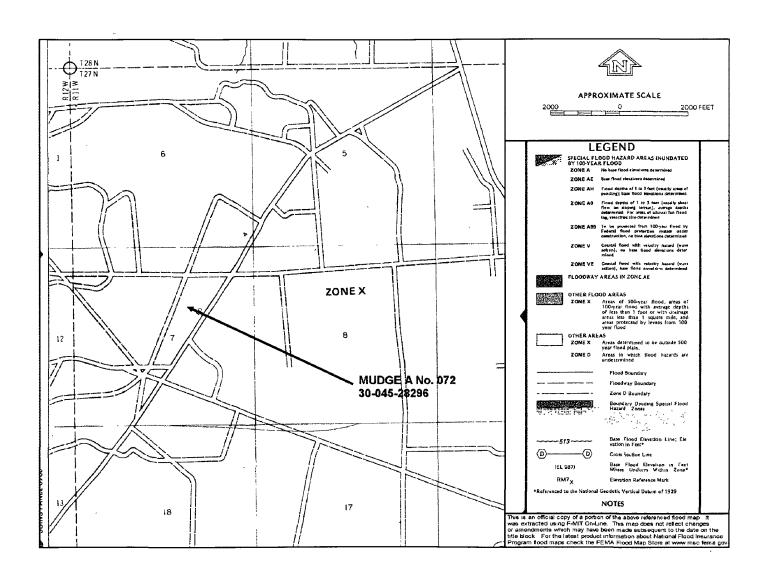




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| | TOD Reports and Downloads |
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| SJ 03193 | 28N | 11W | 07 | 3 | 4 | 3 | | | | 80 | 35 | 45 | | |
| SJ 02916 | 28N | 11W | 07 | 3 | 4 | 4 | | | | 98 | 70 | 28 | | |

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| RG 76598 | 27N | 12W | 02 | 3 4 | 1 | | | | 225 | 145 | 80 | |
| SJ 00076 | 27N | 12W | 13 | 1 3 | 2 | | | | 641 | 408 | 233 | |
| SJ 00210 | 27N | 12W | 13 | 2 2 | 2 | | | | 717 | 422 | 295 | |
| SJ 00065 | 27N | 12W | 13 | 3 1 | 1 | | | | 671 | 215 | 456 | |
| SJ 00066 | 27N | 12W | 13 | 3 3 | 1 | | | | 750 | 177 | 573 | |

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| SJ 00032 | 27N | 10W | 08 | 2 2 | 3 | | | , | 235 | 60 | 175 | |
| SJ 00033 | 27N | 10W | 08 | 2 2 | 3 | | | | 204 | | | |
| SJ 00034 | 27N | 10W | 08 | 2 2 | 3 | | | | 235 | 170 | 65 | |

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| 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 | |

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| SJ 01626 | 26N | 11W 16 | 6 4 3 | | | | 255 | 200 | 55 | |
| SJ 02734 | 26N | 11W 35 | 5 4 3 2 | | | | 275 | 165 | 110 | |

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| (quarters are 1=NW 2=NE 3=SW 4=SE) |

Well

2287

2105

Water

500

500

Column

1787

1605

Record Count: 2

Tws Rng Sec q q q Zone

26N 10W 13 4 2

26N 10W 25 4 1

POD Number

SJ 00193

SJ 00194

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|---------------|-------------------------------|-------------------------------|-------------------------|
| NAD2 | 27 X: Y: | Zone: Searc | h Radius: |
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| Owner Name: (| (First) (Last) | ○Non-D | Domestic ODomestic OAll |
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| POD Number | Tws | Rng | Sec | q | q | q | Zone | x | Y | Well | Water | Column | | |
| SJ 02961 | 26N | 09W | 01 | 2 | 2 | 3 | | | | 1500 | | | | |
| SJ 02962 | 26N | 09W | 01 | 3 | 2 | 3 | | | | 1500 | | | | |
| SJ 01756 | 26N | 09W | 11 | 2 | 2 | 3 | | | | 75 | 40 | 35 | | |
| SJ 03811 POD | 26N | 09W | 12 | 3 | 3 | 3 | | | | 348 | 175 | 173 | | |
| SJ 00412 | · 26N | 09W | 16 | 4 | 2 | | | | | 202 | 65 | 137 | | |
| SJ 00214 | 26N | 09W | 26 | 2 | 4 | 2 | | | | 946 | 230 | 716 | | |
| SJ 00064 | 26N | 09W | 26 | 4 | 2 | 1 | | | | 490 | 215 | 275 | | |
| SJ 00063 | 26N | 09W | 26 | 4 | 2 | 3 | | | | 479 | 234 | 245 | | |

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XTO Energy Inc. San Juan Basin Below Grade Tank Design and Construction Plan

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 (BGT) which does not conform to this plan.

General Plan

- 1. XTO will design and construct a BGT to contain liquids and solids and prevent contamination of fresh water and protect public heath and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the well site prior to construction of the BGT. 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.
- 4. XTO shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with two strands of barbed wire on top, or with a pipe top rail. A 6' chain link fence topped with three stands of barbed wire will be used if the well location is within 1000' of a permanent residence, school, hospital, institution or church.
- 5. XTO shall construct an expanded metal covering on top of the BGT.
- 6. XTO will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight.
- The BGT 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.
- XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on.
- 9. XTO will construct and use BGT that does not have double walls. The BGT sidewalls will be open for visual inspection for leaks, the BGT bottom will be elevated a minimum of 6" above the underlying ground surface and the BGT will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 10. XTO will equip BGT's designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows.
- 11. The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity greater that 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.
- 12. The general specifications for design and construction are attached.

XTO Energy Inc. San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17.11 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 (BGT) which does not conform to this plan.

General Plan

- 1. XTO will operate and maintain a BGT to contain liquids and solids and prevent contamination of fresh water and protect public health and the environment.
- 2. XTO will not allow a BGT to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the BGT.
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of a BGT in order to prevent significant accumulation of oil.
- 4. XTO will inspect the BGT monthly and maintain written records for five years.
- 5. XTO will maintain adequate freeboard to prevent over topping of the BGT.

XTO Energy Inc. San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.11 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 (BGT) which does not conform to this plan.

General Plan

- 1. XTO will close a BGT 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 an existing BGT 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 BGT within 60 days of cessation of the BGT'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 a BGT prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility.
- 5. XTO will remove the BGT and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- 6. XTO will remove any on-site equipment associated with a BGT unless the equipment is required for some other purpose.
- 7. XTO will test the solids beneath the BGT 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 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 will be given to the Aztec Division District III office between 72 hours and one week of closure via email or verbally. The notification will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.

- 11. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the BGT. Closure report will be filed on form C-144 and incorporate the following:
 - i. Details on capping and covering, where applicable
 - ii. Inspection reports
 - iii. Sampling results
- 12. 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.
- 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.
- 14. A minimum of 4' of cover shall be achieved and the cover shall include 1' of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 15. The surface owner shall be notified of XTO's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.