District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Fa. NIM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

| | | | Salita Pe, INI | VI 87303 | to the approp | Mate NWOCD District Office. |
|---|--|--|--|---|--|--|
| 14609 | Propo | P sed Alternative | it, Below-Gra | | | cation |
| Please be advised th | Type of action: or proposed alte Instructions: Plea nat approval of this re | Below grade tar Permit of a pit of Closure of a pit, Modification to Closure plan on mative method see submit one applicate equest does not relieve the | the registration (Pre or proposed alternate below-grade tank, an existing permit/ ly submitted for an ation (Form C-144) per e operator of liability s | 2008 Existing tive method or proposed a for registration existing permer individual pit should operations | Tank) Iternative method itted or non-permitte below-grade tank or a result in pollution of su | OIL CONS. DIV DIST. 3 JUN 0 1 2016 ed pit, below-grade tank, alternative request urface water, ground water or the |
| operator: XTC | | the operator of its respon | | | | nority's rules, regulations or ordinance |
| OF THE SECOND | R. Der Selling at Land | Aztec, NM 87410 | | | | |
| | ame: Mountain | The Earlier Control of the Control o | | | | |
| | ACIETY OF THE PARTY OF THE PART | | OCD P | ermit Number: | | |
| | | n 25 To | | | | |
| | | 36.95418 Longitude | | | | |
| | | ☐ Private ☐ Tribal T | | | | |
| ☐ String-Reinfo | rced | Thickness | | | | Lx Wx D |
| Volume: 120 Tank Constructio Secondary co | on material: Steel ontainment with lea | k detection | Produced Water | och lift and autor | natic overflow shut-of | |
| 4. Alternative N Submittal of an e | CHARLES MILES OF STATE | required. Exceptions n | nust be submitted to t | he Santa Fe Env | vironmental Bureau off | ice for consideration of approval. |
| s. Fencing: Subsec | etion D of 19.15.17. | 11 NMAC (Applies to p | permanent pits, tempo | prary pits, and b | elow-grade tanks) | |
| institution or chu | rch) | strands of barbed wire parbed wire evenly space | | | 00 feet of a permanent | residence, school, hospital, |
| | | ot Hog-Wire Fencing | | | | |

| 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) | |
| 7. | |
| 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 19.15.16.8 NMAC | |
| S. Variance of Francisco | |
| Variances 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: ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of according to the application of according to the application of according to the application. | eptable source |
| material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. | |
| General siting | |
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☑ NM Office of the State Engineer - iWATERS database search; ☑ USGS; ☐ Data obtained from nearby wells | ☐ Yes ☑ No ☐ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | 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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. (Does not apply to below grade tanks) - 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. (Does not apply to below grade tanks) - FEMA map | ☐ Yes ☐ No |
| Below Grade Tanks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☒ No |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ⊠ No |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |

| Temporary Pit Non-low chloride drilling fluid Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). 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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well used search; Visual inspection (certification) of the proposed site 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 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. Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. Propographic map; Visual depletation. Plays in the document of the proposed site within the bo | |
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| watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Permanent Pit or Multi-Well Fluid Management Pit 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 Within 1000 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 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application. Please indicate, by a check mark in the box, that the documentatached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Design Plan - based upon the appropriate requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Departing and Maintenance Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Departing and Maintenance Plan - based upon the | Yes No |
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| lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 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 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Interpretation of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docume attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) 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 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design 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 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: Int. Multi-Well Fluid Management Pit 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 docume attached. | |
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| 10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAI Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docume 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 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: II. Multi-Well Fluid Management Pit 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 docume attached. | Yes No |
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| 11. Multi-Well Fluid Management Pit 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 docume attached. | MAC |
| Multi-Well Fluid Management Pit 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 docume attached. | |
| 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 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.1 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | |

| 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 attached. | documents are |
|--|-------------------------------------|
| 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 Multi-well Falternative 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 | Tuid Management Pit |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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 C 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 H 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 sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance. | rce material are Please refer to |
| Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes No |
| Ground water is between 25-50 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 |
| Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes No |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, 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 |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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 | L 165 L NO |

| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. | | | |
|---|--|--|--------------------------|
| Written confirmation or verification from the municipality; Written | en approval obtained fr | om the municipality | Yes No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNR | D-Mining and Mineral | Division | ☐ Yes ☐ No |
| Within an unstable area. | | | |
| Engineering measures incorporated into the design; NM Bureau Society; Topographic map | of Geology & Mineral I | Resources; USGS; NM Geological | ☐ Yes ☐ No |
| Within a 100-year floodplain FEMA map | | | ☐ Yes ☐ No |
| 16. | | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate required Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of Protocols and Procedures - based upon the appropriate requirement Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling flands Soil Cover Design - based upon the appropriate requirements of Soil Re-vegetation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate requirements of Soil Site Reclamation Plan - based upon the appropriate Plan - | priate requirements of rements of Subsection E pon the appropriate requirements of 19.15.17.13 NMA priate requirements of ements of 19.15.17.13 uids and drill cuttings of absection H of 19.15.17 ubsection H of 19.15.17 | 19.15.17.10 NMAC E of 19.15.17.13 NMAC uirements of Subsection K of 19.15.17. con the appropriate requirements of 19. C 19.15.17.13 NMAC NMAC or in case on-site closure standards cann .13 NMAC 7.13 NMAC | 11 NMAC 15.17.11 NMAC |
| Operator Application Certification: I hereby certify that the information submitted with this application is true. | ie, accurate and comple | te to the best of my knowledge and beli | ief. |
| Name (Print): Logan Hixon Title : _ | EHS Coordinator | | |
| Signature: Jogen Hulson_ | Date:N | 1ay 25, 2016 | |
| e-mail address: Logan Hixon@xtoenergy.com Telephone: | (505) 333-3683 | | |
| OCD Approval: X Permit Application including closure plan Q | losure Plan (only) | OCD Conditions (see attachment) | 15. |
| OCD Representative Signature: | No. | Approval Date: 6/8 | 1/18/6 |
| , , , | Co Physics 10 | Approvat Date: | 11072 |
| Title: Environmental Sper | OCD Permit | Number: | |
| 19. Closure Report (required within 60 days of closure completion): 19. Instructions: Operators are required to obtain an approved closure plat The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained as | n prior to implementing days of the completion and the closure activities | of the closure activities. Please do not | |
| 20. | | | REPUBLICATION OF |
| Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ ☐ If different from approved plan, please explain. | Alternative Closure M | ethod Waste Removal (Closed-lo | oop systems only) |
| Closure Report Attachment Checklist: Instructions: Each of the followark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site of Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude | only) | tached to the closure report. Please in | |

| | ubmitted with this closure report is true, accurate and complete to the best of my knowledge and applicable closure requirements and conditions specified in the approved closure plan. |
|-----------------|---|
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |

Form C-144 Oil Conservation Division Page 6 of 6

Cory or Vanessa,

This below grade tanks was missed during the 2008- Pit Rule Permitting Process. This below grade tanks was installed prior to June 1, 2008. This below grade tank meets the standards of the 2008 pit rule, and has visible sidewalls. We are requesting approved registration for this site. XTO will not be providing ground water data with this registration based on site analysis that potentially shows no indication of shallow groundwater. At the time of closure XTO will close this pit using the most stringent standards unless additional groundwater detail indicates a different standard may be utilized with approval from Aztec, NM NMOCD District Office. XTO believes that this below grade tanks does not pose a threat to fresh water, human health and the environment.

If you have any questions or concerns do not hesitate to contact me at anytime. Thank you and have a good day!

Thank You!

XTO ENERGY INC., an ExxonMobil subsidiary

Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018 | Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Logan Hixon@xtoenergy.com

XTO Energy Inc. San Juan Basin Below Grade Tank Variance Page

In accordance with Rule 19.15.17.15 NMAC, the following outlines all variances that are being requested for below grade tanks at XTO facilities. All variances requested provide equal or better protection of fresh water, public health and the environment.

Fencing

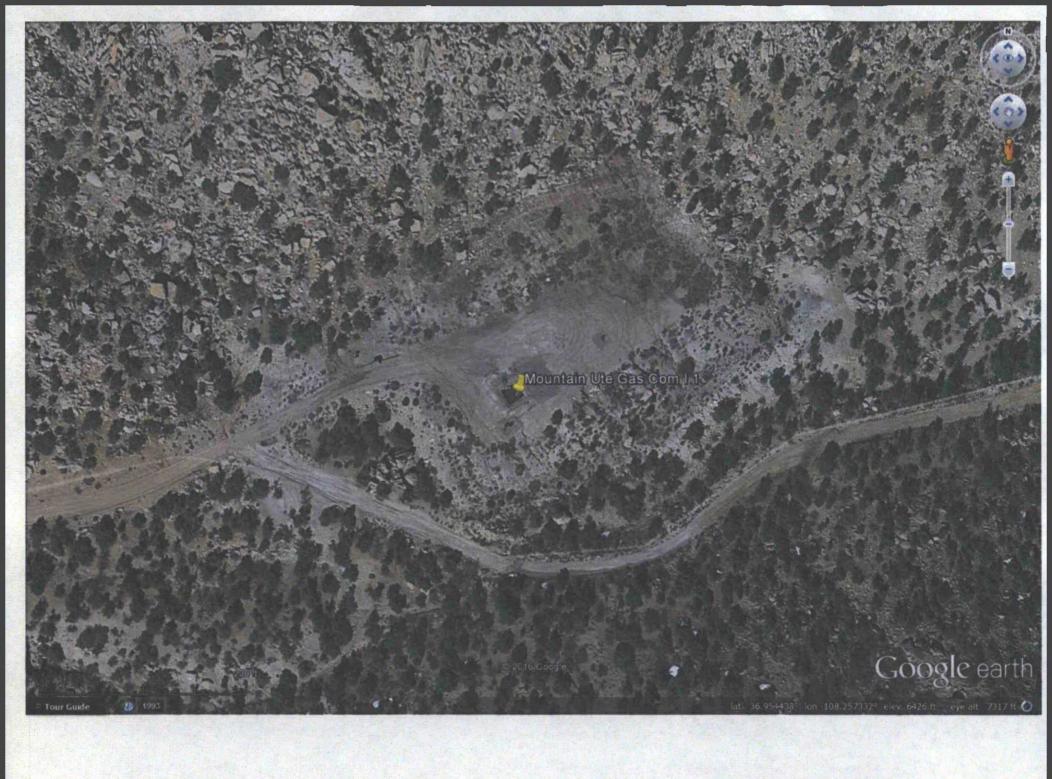
XTO requests a variance on rule 19.15.17.11.D(3) NMAC which requires fencing around below grade tanks to have at least four (4) strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level. XTO instead requests to utilize hogwire fencing at least four (4) feet high with a top rail for fencing around below grade tanks. This will provide equal protection for livestock from the below grade tank.

Closure Requirements

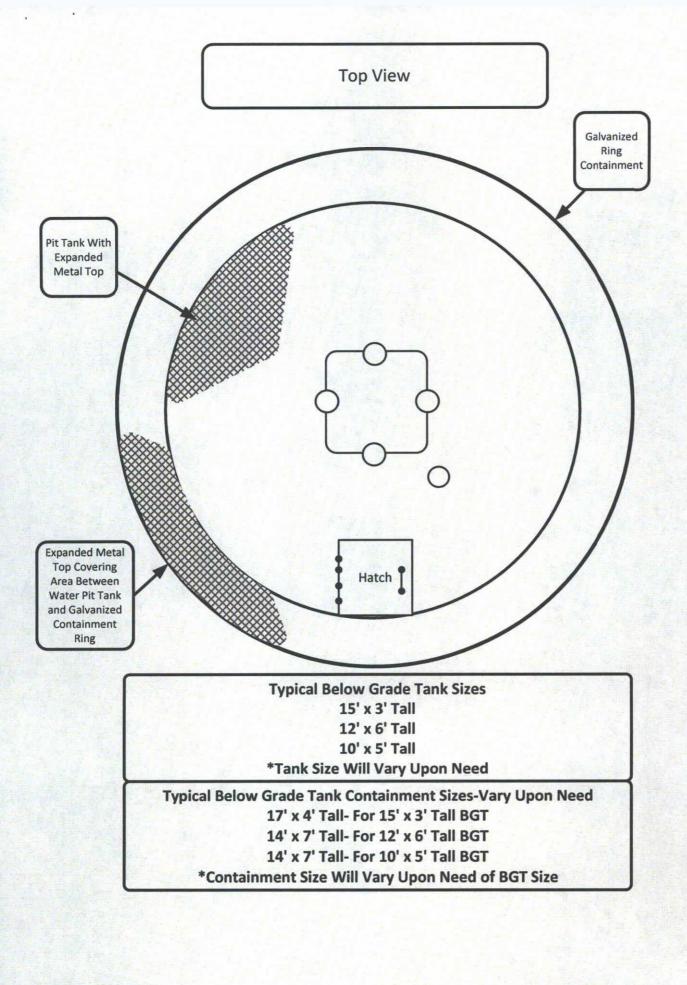
XTO requests a variance on rule 19.15.17.13.C(3)(a) NMAC which requires operators to analyze closure samples for the constituents listed in Table I of 19.15.17.13 NMAC. XTO instead requests to replace the USEPA analytical method 300.0 for total chloride to USEPA Method 9056. The SW846 9056 method Determination of Inorganic Anions By Ion Chromatography, from Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, which also contains methods for the analysis of groundwater, is customarily used to comply with RCRA regulations. EPA Method 300.0 Determination of Inorganic Anions by Ion Chromatography is taken from Methods for Chemical Analysis of Waters and Wastes, and includes test procedures that are approved for monitoring under the Safe Drinking Water Act (SDWA) and the National Pollutant Discharge Elimination System (NPDES). The Scope of Application for each method is the same, and both methods utilize ion chromatograph instrumentation. Following either procedure, steps for instrument calibration and data calculation are equivalent. Sample preservation, holding time, handling and storage is identical between the two methods. It is expected that data produced from either method should be consistent.

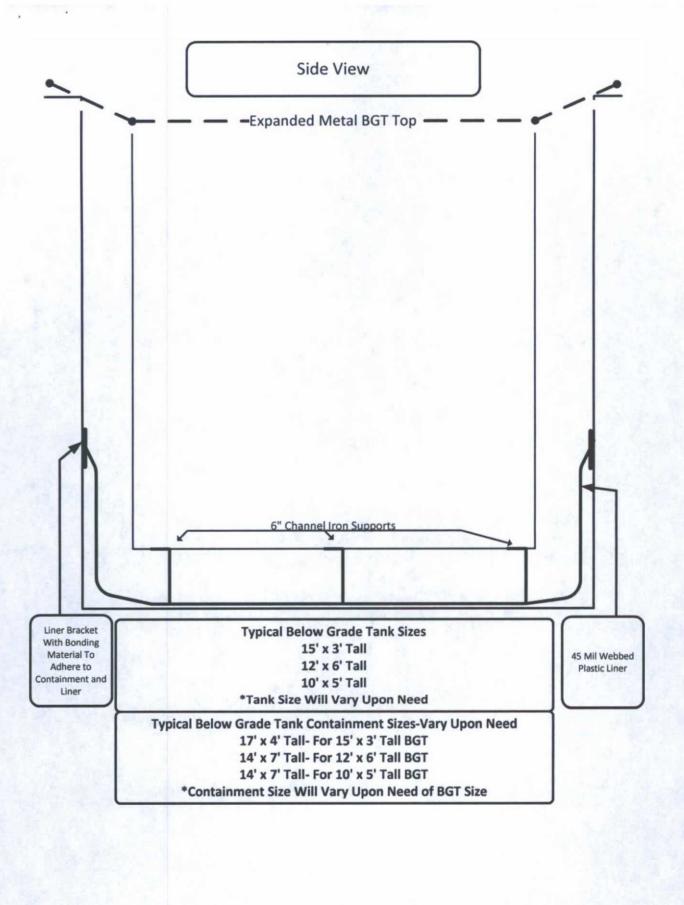
XTO Energy is requesting this variance on the grounds that USEPA Method 418.1 is an outdated analytical method that reports a full range of hydrocarbons from C₈ through C₄₀. (*Reference: American Petroleum Institute*). This range of hydrocarbons is above the range that can reasonably be expected to be found in our field in both drilling pits and beneath below grade tanks. USEPA Method 8015M (GRO/DRO + extended analysis) will report hydrocarbons ranging from C₆-C₁₀ for GRO, C₁₀-C₂₈ for DRO, and C₂₈-C₃₆ for extended analysis. This information was provided by Environmental Science Corporation Laboratories. As the information demonstrates, the 8015M analytical method reports as low as C₆, reporting lower than USEPA Method 418.1. Utilizing analytical method 8015M, lighter range hydrocarbons will be reported instead of higher range, heavy hydrocarbons that may not be reasonably expected to be found in our field. Utilization of USEPA Method 8015M will better protect groundwater resources by identifying lighter, more mobile hydrocarbons that USEPA Method 418.1 cannot identify. The heavier range hydrocarbons, C₃₆-C₄₀, that are not identified by USEPA Method 8015M are not a mobile form of hydrocarbon, and are not a threat to human health and the environment.

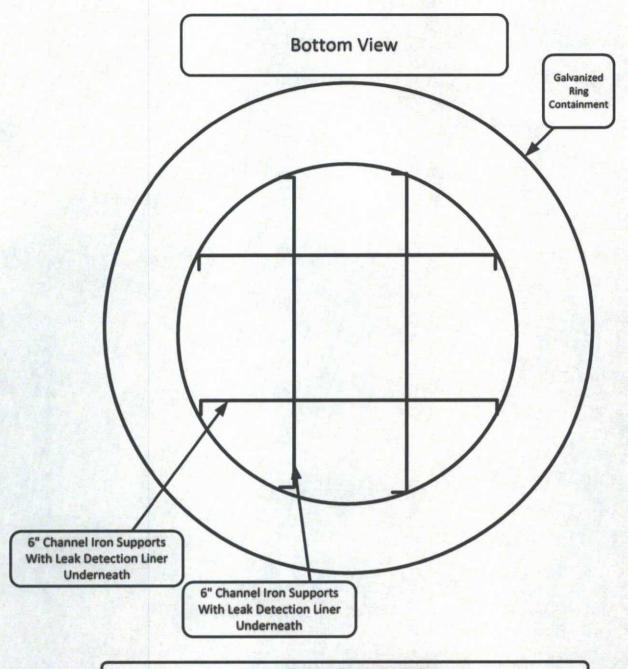
XTO requests a variance on rule 19.15.17.13.E(2) requiring that operators notify the appropriate division office verbally AND in writing at least 72 hours prior to any closure operation. XTO instead requests that the verbal notification be waived, as suggested by the local division office. XTO will provide written notification to the division office in the form of an email at least 72 hours prior to beginning closure activities.











Typical Below Grade Tank Sizes

15' x 3' Tall

12' x 6' Tall

10' x 5' Tall

*Tank Size Will Vary Upon Need

Typical Below Grade Tank Containment Sizes-Vary Upon Need

17' x 4' Tall- For 15' x 3' Tall BGT

14' x 7' Tall- For 12' x 6' Tall BGT

14' x 7' Tall- For 10' x 5' Tall BGT

*Containment Size Will Vary Upon Need of BGT Size

XTO Energy Inc. San Juan Basin Below Grade Tank

General Design and Construction Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the general design and construction requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard design and construction for all below-grade tanks. Because this below-grade tank is already installed, this design and construction plan would apply only if the below grade tank was upgraded or replaced.

General Plan

- Criteria to be met for existing tank.
- XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water, and protect human health and the environment.
- XTO will post a well sign, pursuant to 19.15.16.8 NMAC, on the existing well site where the below grade tank is located. The sign will list the Operator, the location of the well site by Unit letter, section, township and range, county, and an emergency telephone number.
- 3. XTO is requesting approval of an alternative fencing to be used on below grade tank locations. XTO instead requests to utilize hog wire fencing at least four (4) feet high with a top rail for fencing around below grade tanks. This will provide equal protection for livestock from the below grade tank. A 6' chain link fence with two strands of barbed wire on top will be used on locations within city limits or within ¼ mile of a permanent residence, school, hospital, institution or church.
- 4. XTO shall construct below grade tanks with an expanded metal covering.
- 5. The below grade tank cellar will be constructed with a foundation consisting of a level base free of rocks, debris, sharp edges, or irregularities to prevent punctures, cracks or indentations of the tank bottom or liner.
- Below grade tanks will be constructed inside a berm in order to prevent the collection of surface water and run
 on. Below grade tanks will be equipped with automatic high level shut off devices as well as manually operated
 shut off valves.
 - In addition to the plans above, if the below grade tank is upgraded or replaced the following will be utilized as well:
- 7. XTO will use single walled below grade tanks. The tanks will be placed into a circular, galvanized steel cellar with the sidewalls opened for visual inspection, and the bottom will be elevated a minimum of 6" above the underlying ground surface to allow for leak detection. (see attached diagram)
- 8. XTO will equip below grade tanks with a properly functioning, automatic high level high-level shut off control device, as well as manual controls, to prevent overflows.
- The geomembrane liner will be compliant with the specifications outlined in 19.15.17.11 NMAC. The liner will be composed of an impervious material that is resistant to hydrocarbons, salts and acids, and sunlight.

XTO Energy Inc. San Juan Basin Below Grade Tank Operation and Maintenance Procedures

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard operation procedure for all below-grade tanks.

Procedures

- XTO will operate below grade tanks in such a way as to contain liquids, and maintain the integrity of the liner, liner system, and secondary containment, prevent contamination of fresh water, and protect public health and the environment.
- 2. XTO will not discharge into or store any hazardous waste into a below grade tank.
- 3. In the event of a leak in the below grade tank, XTO will:
 - a. Remove all liquids above the leak within 48 hours
 - b. Notify the Aztec Office of the NMOCD of the leak within 48 hours
 - c. Repair the leak, or replace the below grade tank as necessary
- All below grade tanks will be installed and operated in such a way as to prevent surface water run on or collection.
- 5. XTO will remove any measurable layer of oil from the fluid surface of a below grade tank.
- 6. XTO will inspect the below grade tank for leaks and damage at least monthly, documenting the inspections, and maintaining a record of the inspections for five (5) years.
- 7. XTO will operate the below grade tank in such a way as to maintain adequate freeboard to prevent overtopping of the below grade tank.
- In the event the below grade tank no longer demonstrates integrity, XTO will close the below grade tank in accordance with the requirements of 19.15.17.11.I (5) NMAC. If the below grade tank was modified or retrofitted then it will be closed per 19.15.17.13 NMAC.
- In the event that the below grade tank requires modification, XTO will make any modifications to the existing below grade tank following the attached Construction Design and Design And Construction Plans meeting the requirements of 19.15.17.11 along with 19.15.17.12.D(6)

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

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

- 10. XTO will obtain approval of this closure plan prior to commencing closure of the below grade tank at this location pursuant to 19.15.17.13.C (1) NMAC
- 11. XTO will notify the surface owner by certified mail, return receipt requested, that the operator plans closure operations at least 72 hours, but no more than one week, prior to any closure operation. Notice will include:
 - a. Well Name
 - b. API#
 - c. Well Location
- 12. XTO will notify the NMOCD Aztec Office by email that the operator plans closure operations at least 72 hours, but no more than one week, prior to any closure operation. Notice will include:
 - a. Well Name
 - b. API#
 - c. Well Location
- 13. Within 60 days of cessation of operations, 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:
 - Soils, tank bottoms, produced sand, pit sludge and other exempt wastes impacted by petroleum hydrocarbons will be disposed of at: Envirotech: Permit #NM01-0011 and IEI: Permit # NM01-0010B
 - b. Produced Water will be disposed of at:

 Basin Disposal: Permit #NM01-005 and XTO owned salt water Disposal Facilities

- 14. Within six (6) months of cessation of operations, 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 approves. If there is any equipment associated with a below-grade tank, then the operator shall remove the equipment, unless the equipment is required for some other purpose.
- 15. XTO will collect a closure sample of the soil beneath the location of the below grade tank or liner that is being closed. The closure sample will consist of a five-point composite sample to include any obvious stained or wet soils, or other evidence of contamination. The closure sample will be analyzed for all constituents listed in Table I below, including DRO+GRO, Chlorides, TPH (C6-C36), benzene and BTEX.

| | 1P | BLEI | |
|--|--------------|--------------|--------------|
| Depth Below bottom of pit to groundwater less than 10,000 mg/I TDS | Constituent | Method | Limit |
| The state of the s | Chloride | EPA 9056 | 600 mg/kg |
| | TPH (C6-C36) | Method 8015 | 100 mg/kg |
| | BTEX | Method 8021B | 50 mg/kg |
| (≤ 50 Feet) | Benzene | Method 8021B | 10 mg/kg |
| | Chloride | EPA 9056 | 10,000 mg/kg |
| | TPH (C6-C36) | Method 8015 | 2,500 mg/kg |
| | GRO + DRO | Method 8015 | 1,000 mg/kg |
| | BTEX | Method 8021B | 50 mg/kg |
| 51 feet - 100 feet | Benzene | Method 8021B | 10 mg/kg |
| | Chloride | EPA 9056 | 20,000 mg/kg |
| | TPH (C6-C36) | EPA 8015 | 2,500 mg/kg |
| | GRO + DRO | Method 8015 | 1,000 mg/kg |
| | BTEX | Method 8021B | 50 mg/kg |
| > 100 feet | Benzene | Method 8021B | 10 mg/kg |

XTO will meet the limits for <50' to groundwater detailed in Table I.

- a. In accordance with Rule 19.15.17.13.C(3)(b) if contaminant concentrations exceed the proposed limit and groundwater is found to be deeper than 50', XTO may elect to submit additional groundwater information to the Division and request a higher closure limit. XTO will submit the additional groundwater data via email documenting the depth to groundwater at the location. XTO will wait for approval of the groundwater data by the NMOCD, prior to completing closure activities at the site.
- If a higher closure limit is submitted and approved by the Division, XTO will submit a copy of the request, the groundwater information and the received approval in their closure report
- 16. If any contaminant concentration is higher than the parameters listed in Table I of 19.15.17.13 NMAC, the division may require additional delineation upon review of the results and the operator must receive approval before proceeding with closure. If all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, then the operator can proceed to backfill the pit, pad, or excavation with non-waste containing, uncontaminated, earthen material.

- 17. After closure has occurred, XTO will reclaim the former BGT area, if it is no longer being used for extraction of oil and gas, by substantially restoring the surface area to the condition that existed prior to oil and gas operations. XTO will construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover materials. The soil cover shall consist of the background thickness of topsoil, or one foot of suitable materials to establish vegetation at the site, whichever is greater. All areas will be reclaimed as early as practicable, and as close to their original condition or land use as possible. They shall be maintained in a way as to control dust and minimize erosion.
- 18. XTO will complete reclamation of all disturbed areas no longer in use when the ground disturbance activities at the site have been completed. The reseeding shall take place during the first favorable growing season after closure. Reclamation activities will be considered completed when a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels, and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.
 - *Re-vegetation and reclamation obligations imposed by other applicable federal, state or tribal agencies on lands managed by those agencies shall supersede the above requirements, provided they provide equal or better protection of fresh water, human health and the environment.
- 19. XTO will notify the Aztec Office of the NMOCD by C-103 when reclamation and closure activities are completed, unless the site is managed by another regulatory agency whose reclamation requirements provide equal or greater cover than NMOCD requirements. In those instances, the requirements of the other regulatory agency will be followed.
- 20. Within 60 days of closure, XTO will submit a closure report to the Aztec office of the NMOCD, filed on Form C-144. The report will include the following:
 - a. Proof of closure notice to NMOCD and surface owner
 - b. Confirmation sampling analytical results
 - c. Soil backfill and cover installation information
 - d. Photo documentation of site reclamation
 - e. Alternative Table I groundwater criteria request, groundwater information and received approval. (If Needed)