| 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, 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.

| 15911  | <u>Pit, Below-Grade Tank, or</u><br>Proposed Alternative Method Permit or Closure Plan Application   |
|--|--|
|  | Type of action: Below grade tank registration<br>Permit of a pit or proposed alternative method<br>Closure of a pit, below-grade tank, or proposed alternative method<br>Modification to an existing permit/or registration  |
|  | or proposed alternative method   |
|  | Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request   |
| Please be advised the environment. Nor c   | t approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the ses approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.   |
| 1.<br>Operator: <u>XT</u>  | O Energy, IncOGRID #:5380  |
| Address: 382 R   | ad 3100, Aztec, New Mexico 87410   |
| Facility or well n   | me: <u>Brown # 3</u>   |
| API Number: 30   | 045-29900 OCD Permit Number:   |
| U/L or Qtr/Qtr   | O Section 29 Township 30N Range 12W County: San Juan   |
| Center of Propos   | d Design: Latitude <u>36.77864</u> Longitude <u>-108.11944</u> NAD: □1927 ⊠ 1983   |
| Surface Owner: [   | ] Federal 🗌 State 🖾 Private 🗌 Tribal Trust or Indian Allotment   |
| 2.<br>Pit: Subsec<br>Temporary: 1<br>Permanent 1<br>Lined 1<br>Ur<br>String-Reinfo<br>Liner Seams: 1<br>3.<br>Below-grade<br>Volume: 120 | on F, G or J of 19.15.17.11 NMAC<br>rilling Workover<br>Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no<br>ined Liner type: Thicknessmil LLDPE HDPE PVC Other<br>ced<br>Welded Factory OtherVolume:bbl Dimensions: L x W x D<br><b>ank:</b> Subsection I of 19.15.17.11 NMAC<br>bbl Type of fluid: <u>Produced Water</u> |
| Tank Construction  | material: <u>Steel</u>   |
| Secondary co   | ntainment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  |
| Visible sidev  | alls and liner 🗌 Visible sidewalls only 🛛 Other <u>Visable sidewalls, vaulted, automatic high-level shut off</u>   |
| Liner type: Thic   | messmil  HDPE PVC Other  |
| 4.<br>Alternative M<br>Submittal of an e   | ethod:<br>ception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.   |
| 5.   |  |
| Fencing: Subsec  | ion D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits. and below-grade tanks)   |
| Chain link, si<br>institution or chu   | teet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, ch)  |
| Four foot heig   | it, tour strands of barbed wire evenly spaced between one and four feet  |
| ∐ Alternate. Ple   | ase specify:   |
|  | 211  |

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other: Expanded metal or solid vaulted top

Monthly inspections (If netting or screening is not physically feasible)

#### Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

#### 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.

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 acceptable 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   | □ Yes □ No<br>□ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.<br>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | □ Yes □ No<br>□ NA |
| <ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>          | 🗌 Yes 🗌 No         |
| <ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>  | 🗌 Yes 🗌 No         |
| <ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society: Topographic map</li> </ul>  | 🗌 Yes 🗌 No         |
| Within a 100-year floodplain. (Does not apply to below grade tanks)<br>- FEMA map  | Yes No             |
| Below Grade Tanks  |                    |
| <ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | 🗌 Yes 🗌 No         |
| <ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>   | 🗌 Yes 🗌 No         |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)   |                    |
| <ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>                                  | 🗌 Yes 🗍 No         |
| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial  | 🗌 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             |

| <ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | Yes No                               |  |  |  |  |  |  |  |
|--|--------------------------------------|--|--|--|--|--|--|--|
| Temporary Pit Non-low chloride drilling fluid  |                                      |  |  |  |  |  |  |  |
| <ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | 🗌 Yes 🗌 No                           |  |  |  |  |  |  |  |
| <ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>   |                                      |  |  |  |  |  |  |  |
| <ul> <li>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 or spring, in the existence at the time of the initial application;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>  |                                      |  |  |  |  |  |  |  |
| <ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | Yes No                               |  |  |  |  |  |  |  |
| Permanent Pit or Multi-Well Fluid Management Pit   |                                      |  |  |  |  |  |  |  |
| <ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🗌 No                           |  |  |  |  |  |  |  |
| <ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>  | 🗌 Yes 🗌 No                           |  |  |  |  |  |  |  |
| <ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>   |                                      |  |  |  |  |  |  |  |
| <ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🗌 No                           |  |  |  |  |  |  |  |
| <ul> <li>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N<br/>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.</li> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul> | JMAC<br><i>cuments are</i><br>) NMAC |  |  |  |  |  |  |  |
| <ul> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC</li> </ul>  | 15.17.9 NMAC                         |  |  |  |  |  |  |  |
| Previously Approved Design (attach copy of design) API Number: or Permit Number:   |                                      |  |  |  |  |  |  |  |
| 11.<br><u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC<br><i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do<br/>attached.</i> 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   | cuments are                          |  |  |  |  |  |  |  |

 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 19.15.17.9 NMAC 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 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   |
|---|
| <ul> <li>Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Climatological Factors Assessment</li> <li>Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>  |
| 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   |
| Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  |
| 13.         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 Fluid Management Pit         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   |
| <ul> <li>Maste 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.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>   |
| 15.<br>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 require justifications and/or demonstrations of equivalency. Please refer to   |
| 19.15.17.10 NMAC for guidance.  |
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   |
| 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 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  |
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  |
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa<br>lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site   |
| IP.15.17.10 NMAC for guidance.         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         Ground water is between 25-50 feet below the bottom of the buried waste       Yes No         -       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.       Yes No       NA         Ground water is more than 100 feet below the bottom of the buried waste.       Yes No       NA         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).       Yes No       No         -       Topographic map; Visual inspection (certification) of the proposed site       Yes No       Yes No         Within 300 feet from a 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       No  |
| IV.15.17.10 NMAC for guidance.         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         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         Ground water is more than 100 feet below the bottom of the buried waste.       Yes No         -       NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells       NA         Ground water is more than 100 feet below the bottom of the buried waste.       Yes No       NA         -       NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells       NA         Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa       Yes No         ake (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.       Yes No         -       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 wate  |
| IS.15.1.10 NMAC for guidance.         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         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         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         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         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 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         Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the t |
| TY IS IN TO WMAC for guidance.         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          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          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          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          Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa          ake (measured from the ordinary high-water mark).       -       Topographic map; Visual inspection (certification) of the proposed site         Within 300 feet form a permanent residence, school, hospital, institution, or church in existence at the time of initial application.        Yes         -       Nix Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site <td< td=""></td<>  |

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Oil Conservation Division

| - written confirmation or verification from the municipanty, written approval obtained from the municipanty  | 🗌 Yes 🗌 No  |
|--|---|
| <ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>  | 🗌 Yes 🗌 No  |
| <ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> </ul>   |   |
| Society; Topographic map   | Yes No  |
| - FEMA map   | Yes No  |
| <ul> <li>16.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.</li> <li>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</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards canned Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul> | an. Please indicate,<br>11 NMAC<br>15.17.11 NMAC<br>ot be achieved) |
| 17.<br>Operator Application Certification:<br>I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.   | ief.  |
| Name (Print): Title:   |   |
| Signature: Date:   |   |
|  |   |
|  |   |
| 18.       OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:       Approval Date:       4/2  | 25/17   |
| 18.       OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:   | 25 /17  |
| 18.       OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:   | the closure report.   |
| 18.       OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:   | the closure report.   |
| 18.       OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:   | the closure report.<br>complete this                                |

Oil Conservation Division

#### **Operator Closure Certification:**

22. 1

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): Kurt Hoekstra

Title: <u>EHS Coordinator</u>

Kuit Hoi Signature:

Date: 3-23-2017

e-mail address: Kurt\_Hoekstra@xtoenergy.com\_\_\_\_\_\_Telephone: 505-333-3100

### XTO Energy Inc. San Juan Basin Below Grade Tank Closure Report

Lease Name:Brown # 3API No.:30-045-29900Description:Unit O, Section 29, Township 30N, Range 12W, San Juan County

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.
   Closure Date is 3-16-2017
- 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. Closure Date is 3-16-2017
- 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.
  Required C-144 Form is attached to this document.
- 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

All liquids and sludge were removed from the tank prior to closure activities.

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 approves.

XTO has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.

6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

#### The below grade tank has been removed due to facility upgrades.

,'

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 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.

A composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

| Components | Test Method               | Limit (mg/Kg) | Results (mg/Kg)  |  |  |
|------------|---------------------------|---------------|------------------|--|--|
| Benzene    | EPA SW-846 8021B or 8260B | 0.2           | < 0.000521 mg/kg |  |  |
| BTEX       | EPA SW-846 8021B or 8260B | 50            | < 0.007812 mg/kg |  |  |
| TPH        | EPA 8015M                 | 100           | < 8.444 mg/kg    |  |  |
| Chloride   | EPA Method 300            | 250           | 47.9 mg/kg       |  |  |

- 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.
   No release has been confirmed for this location.
- 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. The pit cellar excavation was backfilled using compacted, non-waste containing earthen material.
- 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

Notification was provided to Mr. Cory Smith, and Ms. Vanessa Fields with the Aztec office of the OCD via email on March 7<sup>th</sup>,2017; see attached email printout.

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. **The surface owner was notified on March** 7<sup>th</sup>,2017

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.

## The location will be recontoured to match the above specifications when the well is P & A'd.

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.

#### The site has been backfilled to match these specifications.

.'

- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other divisionapproved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. The location will be reclaimed pursuant to OCD/ Landowner specifications upon P&A
- 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; attached
  - ii. Details on capping and covering, where applicable; per OCD Specifications
  - iii. Inspection reports; attached
  - iv. Confirmation sampling analytical results; attached
  - v. Disposal facility name(s) and permit number(s); see above
  - vi. Soil backfilling and cover installation; per OCD Specifications
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); per OCD/ Landowner specifications
  - viii. Photo documentation of the site reclamation. attached

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Fran  | cis Dr., Santa   | a Fe, NM 87505  | 5   | Sa   | anta F   | Fe, NM 875   | 05  |   |  |  |  |   |  |
|---|--|---|---|--|--|--|---|---|--|--|--|---|--|
|   |  |   | Rel   | ease Notific   | catio  | n and Co   | orrective A   | ction   |  |  |  |   |  |
|   |  |   |   |  |  | <b>OPERA</b>   | ГOR   |   | 🗌 Initia   | al Report  | $\boxtimes$  | Final Report  |  |
| Name of Co  | mpany: X   | TO Energy,  | Inc.  |  |  | Contact: Kurt Hoekstra   |   |   |  |  |  |   |  |
| Address: 38   | 2 Road 31  | 00, Aztec, N  | lew Mex   | ico 87410  |  | Telephone No.: (505) 333-3100  |   |   |  |  |  |   |  |
| Facility Nar  | ne: Brown  | n # 3   |   |  |  | Facility Type: Gas Well (Basin Fruitland Coal )                                      |   |   |  |  |  |   |  |
| Surface Ow  | ner: Fee   |   | Mineral C   | Owner  | r API No. 30-045-29900                               |  |   |   |  |  |  |   |  |
|   |  |   |   | LOCA   | ATIO   | N OF RE  | LEASE   |   |  |  |  |   |  |
| Unit Letter   | Section  | Township  | Range   | Feet from the  | Nort   | th/South Line Feet from the East/West Line Co  |   |   |  |  |  |   |  |
| 0   | 29   | 30N   | 12W   | 685  |  | FSL  | 2280  |   | FEL  |  | San Ju   | ian   |  |
|   |  |   | 1   | atitude: 36 77   | 864  | Longitude: -   | 108 11944   |   |  |  |  |   |  |
|   |  |   |   | NAT  | URE  | E OF REL   | EASE  |   |  |  |  |   |  |
| Type of Rele  | ase: N/A   |   |   |  |  | Volume of  | Release: N/A  | _   | Volume F   | Recovered: 1   | N/A  |   |  |
| Source of Re  | lease: N/A   |   |   |  |  | Date and H   | Iour of Occurrenc   | e   | Date and   | Hour of Dis  | scovery  | : N/A   |  |
| Was Immedi  | ate Notice (   | Given?  |   |  |  | N/A<br>If YES To   | Whom?   |   |  |  |  |   |  |
|   |  |   | Yes [   | No 🛛 Not R   | equired  | 1  |   |   |  |  |  |   |  |
| By Whom?  |  |   |   |  |  | Date and H   | lour  |   |  |  |  |   |  |
| Was a Water   | course Read  | ched?   |   |  |  | If YES, V  | olume Impacting t   | the Wate  | ercourse.  |  |  |   |  |
| a   |  |   |   |  |  |  |   |   |  |  |  |   |  |
| Describe Cau<br>cellar beneat<br>sample return<br>release has n                                       | use of Probl<br>h the BGT<br>ned results to<br>ot occurred                                 | em and Reme<br>was sampled f<br>below the 'pit<br>at this locatio                                   | dial Actio<br>for TPH vi<br>rule' stan<br>n.  | n Taken.*The bel<br>ia USEPA Method<br>dards of 100 ppm  | low gra<br>d 8015<br>TPH, (                          | ide tank was re<br>M C6-C40, for<br>0.2 ppm benze                                    | moved at the Brov<br>BTEX via USEP<br>ne, 50 ppm total B  | wn # 3 l<br>A Meth<br>3TEX, a                               | ocation due<br>od 8021, ar<br>nd 250 ppn                                       | e to facility<br>nd for total on<br>n chlorides,                           | upgrad<br>chloride<br>confirm                        | es. The BGT<br>es. The<br>ning that a                       |  |
| Describe Are  | a Affected   | and Cleanup   | Action Tal  | ken.*No release h  | as been  | n confirmed at   | this location and i   | no furth  | er action is   | required.  |  |   |  |
| I hereby certi<br>regulations a<br>public health<br>should their o<br>or the enviro<br>federal, state | fy that the<br>ll operators<br>or the envi<br>operations h<br>nment. In a<br>, or local la | information g<br>are required t<br>ronment. The<br>have failed to<br>addition, NMC<br>ws and/or reg | iven above<br>to report at<br>acceptane<br>adequately<br>OCD acceptane<br>ulations. | e is true and comp<br>nd/or file certain r<br>ce of a C-141 repo<br>y investigate and r<br>ptance of a C-141 | olete to<br>release<br>ort by t<br>remedia<br>report | the best of my<br>notifications a<br>he NMOCD m<br>ate contaminat<br>does not reliev | knowledge and u<br>nd perform correct<br>aarked as "Final R<br>ion that pose a thre<br>we the operator of the | inderstan<br>ctive act<br>eport" d<br>eat to gr<br>responsi | nd that purs<br>ions for rele<br>loes not reli<br>round water<br>ibility for c | suant to NM<br>eases which<br>ieve the ope<br>r, surface wa<br>ompliance w | OCD r<br>may en<br>erator of<br>ater, hu<br>with any | ules and<br>ndanger<br>f liability<br>man health<br>y other |  |
| Signature: Kurt Hocketin  |  |   |   |  |  | OIL CONSERVATION DIVISION  |   |   |  |  |  |   |  |
| Printed Name  | e: Kurt Hoe  | ekstra  |   |  |  |  |   |   |  |  |  |   |  |
| Title: EHS C  | oordinator   |   |   |  |  | Approval Da  | te:   | 1   | Expiration   | Date:  | Date:  |   |  |
| E-mail Addre  | ess: Kurt_H  | loekstra@xtoe   | energy.com  | n  |  | Conditions of Approval:  |   |   | Attached   |  |  |   |  |
| Date: 4-4-20<br>Attach Addi   | 17<br>tional Shee  | Plets If Necess   | hone: 505   | -333-3100  |  |  |   |   |  |  |  |   |  |

#### Hoekstra, Kurt

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| From:    | Hoekstra, Kurt   |
|----------|--|
| Sent:    | Tuesday, March 07, 2017 2:57 PM  |
| To:      | Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); Smith, Cory, EMNRD    |
| Cc:      | McDaniel, James (James_McDaniel@xtoenergy.com); Hixon, Logan; Durham, Ken; |
|          | Weaver, John; Trujillo, Marcos   |
| Subject: | 72 hour notification BGT closure notification Brown # 3                    |

Ms. Fields and Mr. Smith

Please accept this email as the required 72 hour notification for BGT closure activities at the Brown # 3 well site API # (30-045-29900) located in Section 290, Township 30N, Range 12W, San Juan County, New Mexico. This BGT

is being closed due to facility upgrades . Work is tentatively scheduled for Monday March 13, 2017 at approximately 1:00 pm.

Thank you for your time in regards to this matter.

Kurt Hoekstra EHS Coordinator XTO Energy 505-333-3202 Office 505-486-9543 Cell Kurt Hoekstra@xtoenergy.com An ExxonMobil Subsidiary





|             | Ground   |                  |          |              |                    |                   |                               |                  |                  |                     |             |                | 1 |
|-------------|----------|------------------|----------|--------------|--------------------|-------------------|-------------------------------|------------------|------------------|---------------------|-------------|----------------|---|
| bit empty   | Below    | Well Water Pit   | 9        | oN           | ٥N                 | oN                | ٥N                            | oN               | oN               | 12:00               | 2/28/2012   | fa             |   |
| pit empty   | wolag    | Well Water Pit   | 9        | oN           | ٥N                 | ٥N                | ٩N                            | oN               | oN               | 15:00               | 1/31/2012   | <u>fa</u>      |   |
| bit empty   | Below    | Well Water Pit   | 9        | oN           | ٥N                 | ٩N                | ٥N                            | oN               | oN               | 15:00               | 12/29/2016  | fa             |   |
| bit empty   | Below    | Well Water Pit   | 9        | oN           | ٩N                 | oN                | oN                            | ٥N               | ٩N               | 03:00               | 11/28/2016  | fa             |   |
| bit empty   | Below    | Well Water Pit   | 9        | oN           | ٥N                 | ٥N                | ٥N                            | ٥N               | ٥N               | 03:00               | 10/30/5016  | la             |   |
| bit empty   | Below    | Well Water Pit   | 9        | ON           | ON                 | oN                | oN                            | ٥N               | ON               | 03:00               | 9120/2016   | fa             |   |
| bit embty   | Below    | Well Water Pit   | 9        | oN           | oN                 | oN                | on                            | oN               | ON               | 20:50               | 8/31/2016   | fa             |   |
| bit subty   | Ground   | Well Water Pit   | 9        | oN           | ON                 | oN                | ON                            | ON               | oN               | 20:00               | 1/26/2016   | la             |   |
| bit empty   | Ground   | Well Water Pit   | 9        | oN           | oN                 | oN                | ON                            | oN               | ON               | 91:50               | 9/31/2016   | fa             |   |
| bit subty   | Ground   | Well Water Pit   | 9        | ON           | ON                 | ON                | ON                            | ON               | ON               | 91:20               | 9102/12/1   | ía             |   |
| bit empty   | Ground   | Well Water Pit   | 9        | ON           | ON                 | ON                | ON                            | ON               | ON               | OL:LL               | \$102/02/6  | ía             |   |
| bit empty   | Ground   | Well Water Pit   | 9        | ON           | ON                 | ON                | ON                            | ON               | ON               | SZ:ZL               | SL07//7/8   | 10             |   |
| bit subty   | Ground   | AVEII VV3161 PTC | 9        | ON           | ON                 | ON                | ON                            | ON               | ON               | 67:71               | G107/67//   | 10             |   |
| Audua ud    | Ground   |                  |          | -14          | 01                 | -14               |                               | -                | -14              | 20.01               | 5107/02/2   | 10             |   |
| Arduna and  | Ground   | Mail Meters Die  | 9        | UN CON       | - N                | - Chi             | UN CON                        | - N              | - N              | 38.10               | 9102/52/9   | id<br>I        |   |
| vitorne tig | Ground   | Hell Mater Pit   | 9        | oN           | oN                 | oN                | oN                            | oN               | oN               | 59:10               | \$127/2015  | la             |   |
| pit empty   | Ground   | Well Water Pit   | 9        | oN           | oN                 | oN                | ٥N                            | oN               | oN               | 13:55               | \$128/2015  | la             |   |
| pit empty   | Ground   | Well Water Pit   | 9        | oN           | oN                 | oN                | oN                            | oN               | oN               | 54:10               | 3/29/2016   | <u>fa</u>      |   |
| pit empty   | Below    | Well Water Pit   | 9        | oN           | ON                 | oN                | oN                            | oN               | oN               | 82:10               | 1/29/2015   | <u>la</u>      |   |
| bit embty   | Below    | Well Water Pit   | 9        | oN           | ٥N                 | oN                | ٥N                            | ٥N               | ٥N               | 82:10               | 1/20/2018   | fa.            |   |
| bit empty   | Below    | Well Water Pit   | 9        | oN           | ٥N                 | oN                | ٥N                            | oN               | ٥N               | 15:00               | 12/30/2014  | fa.            |   |
| bit empty   | Below    | Well Water Pit   | 9        | oN           | oN                 | ٥N                | ON                            | ٥N               | ٥N               | 12:00               | 11/26/2014  | la la          |   |
| bit empty   | Below    | Well Water Pit   | 9        | oN           | ٥N                 | ٥N                | ٥N                            | ٥N               | ٥N               | 12:00               | 10/28/2014  | la             |   |
|             | Below    | Well Water Pit   | 9        | oN           | · •N               | ٥N                | ٥N                            | ON               | ON               | 01:30               | 8/30/501¢   | ía.            |   |
|             | Below    | Well Water Pit   | 9        | oN           | ٥N                 | ٥N                | ON                            | ٥N               | ٥N               | 01:30               | \$\26\2014  | fa             |   |
|             | Below    | Well Water Pit   | 9        | oN           | ٥N                 | oN                | oN                            | ٥N               | ٥N               | 01:30               | 1/22/2014   | fa             |   |
|             | Below    | Well Water Pit   | 9        | ON           | ON                 | oN                | on                            | oN               | oN               | 01:30               | 6/30/2014   | fa             |   |
|             | Below    | Well Water Pit   | 9        | ON           | ON                 | ON                | ON                            | ON               | oN               | 07:11               | \$129/2014  | fa             |   |
|             | Ground   | Well Water Pit   | 9        | ON           | oN                 | oN                | oN                            | ٥N               | oN               | 55:LO               | 3/31/5014   | fa             |   |
|             | Ground   | Well Water Pit   | 9        | ON           | ON                 | ON                | oN                            | ON               | ON               | 12:50               | \$\28\2014  | fa             |   |
|             | Ground   | Well Water Pit   | ç        | ON           | ON                 | ON                | ON                            | ON               | ON               | 00:11               | \$L02/L£/L  | 10             |   |
|             | Ground   | AVEII VVGIE PIE  | 7        | ON           | ON                 | ON                | ON                            | ON               | ON               | 00:11               | S107/97/71  | ía             |   |
|             | Ground   | 11.d Januar Hote |          | ON ON        | -/4                | 01                | 01                            | -14              | -14              | 00.11               | C167//7//   | iu<br>Ia       |   |
|             | Ground   | 410 sateW IIgW   | 6        | UN CON       | -N                 | No.               | ON .                          | - N              | MN .             | 00.11               | £10C/2C/11  | 10             |   |
|             | Ground   | Hid vateW II9M   | 2        | oN           | UN CON             | ON                | on                            | oN               | oN               | 00:11               | 10/10/2013  | DI             |   |
|             | Below    | Well Water Pit   | 2        | oN           | oN                 | oN                | oN                            | oN               | oN               | 32:21               | 8/30/5013   | 10             |   |
|             | Below    | Well Water Pit   | 2        | oN           | oN                 | oN                | oN                            | oN               | oN               | 10:25               | 8/59/5013   | ſa             | - |
|             | Below    | Well Water Pit   | 2        | oN           | oN                 | oN                | oN                            | oN               | oN               | 10:25               | 1/31/2013   | la             |   |
|             | Below    | Well Water Pit   | 2        | ٥N           | oN                 | oN                | ٥N                            | oN               | oN               | 10:25               | 6/27/2013   | fa             |   |
|             | Below    | Well Water Pit   | 2        | ٥N           | oN                 | ٥N                | oN                            | oN               | oN               | SZ:10               | 2/58/5013   | fa             |   |
|             | Below    | Well Water Pit   | 2        | ٥N           | oN                 | ٥N                | oN                            | oN               | oN               | 00:11               | \$\30\5013  | 6              |   |
|             | Below    | Well Water Pit   | z        | ٥N           | ٥N                 | ٥N                | ON                            | oN               | oN               | 95:38               | 5/28/2013   | ſa             |   |
|             | Below    | Well Water Pit   | z        | oN           | ٥N                 | oN                | oN                            | ٥N               | ٥N               | 03:32               | 1/31/5013   | fa             |   |
|             | Below    | Well Water Pit   | z        | oN           | oN                 | oN                | ON                            | oN               | oN               | 05:32               | 15/54/2015  | TL             |   |
|             | Below    | Well Water Pit   | z        | ON           | ON                 | ON                | ON                            | oN               | oN               | 05:32               | 11/57/2012  | TL             | · |
| Notes       | bit Type | Pit Location     | Freeboar | Visible Leak | Visible<br>Visible | Collectio<br>n Of | Visible Tank<br>WolftevO XeaL | Visible<br>Liner | Visible<br>Liner | Inspectio<br>emiT n | Record Date | Inspector Name |   |

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# ANALYTICAL REPORT



## **XTO Energy - San Juan Division**

Sample Delivery Group: Samples Received: L895711 03/14/2017

Brown 3

Report To:

Description:

Project Number:

James McDaniel 382 County Road 3100 Aztec, NM 87410

Entire Report Reviewed By:

Jason Romer Technical Service Representative

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Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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|   |    |

ACCOUNT:

2 1

DATE/TIME:

### SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

| 2 I   |          |                | Collected by   | Collected date/time | Received date/time |
|---|----------|----------------|----------------|---------------------|--------------------|
| BGT COMPOSITE L895711-01 Solid                      | Logan H  | 03/13/17 15:15 | 03/14/17 09:00 |                     |                    |
| Method  | Batch    | Dilution       | Preparation    | Analysis            | Analyst            |
|   |          |                | date/time      | date/time           |                    |
| Total Solids by Method 2540 G-2011                  | WG960749 | 1              | 03/14/17 15:17 | 03/14/17 15:33      | KDW                |
| Wet Chemistry by Method 9056A                       | WG960439 | 1              | 03/14/17 14:36 | 03/14/17 20:27      | KCF                |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG960794 | 1              | 03/14/17 13:22 | 03/14/17 17:55      | DMG                |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG960996 | 1              | 03/14/17 17:34 | 03/15/17 14:11      | JAH                |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG960794 | 1              | 03/14/17 13:22 | 03/14/17 17:55      | DMG                |

-

### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

-

:

Jason Romer Technical Service Representative

#### BGI COMPOSITE Collected date/time: 03/13/17 15:15

## SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

### Total Solids by Method 2540 G-2011

| rotar solids by met | 100 2010 0 20 |           |          |                  |                  |          | 10              |
|---------------------|---------------|-----------|----------|------------------|------------------|----------|-----------------|
|                     | Result        | Qualifier | Dilution | Analysis         | Batch            |          |                 |
| Analyte             | %             |           |          | date / time      |                  |          | 2               |
| Total Solids        | 96.0          |           | 1        | 03/14/2017 15:33 | WG960749         |          | Ť               |
| Wet Chemistry by N  | lethod 9056A  |           |          |                  |                  |          | <sup>3</sup> S: |
|                     | Result (dry)  | Qualifier | RDL (d   | lry) Dilution    | Analysis         | Batch    |                 |
| Analyte             | mg/kg         |           | mg/kg    |                  | date / time      |          | 4               |
| Chloride            | 47.9          |           | 10.4     | 1                | 03/14/2017 20:27 | WG960439 |                 |

#### Volatile Organic Compounds (GC) by Method 8015/8021

|                                 | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis         | Batch    | 6   |
|---------------------------------|--------------|-----------|-----------|----------|------------------|----------|-----|
| Analyte                         | mg/kg        |           | mg/kg     |          | date / time      |          | Č   |
| Benzene                         | ND           |           | 0.000521  | 1        | 03/15/2017 14:11 | WG960996 |     |
| Toluene                         | ND           |           | 0.00521   | 1        | 03/15/2017 14:11 | WG960996 | 7   |
| Ethylbenzene                    | ND           |           | 0.000521  | 1        | 03/15/2017 14:11 | WG960996 |     |
| Total Xylene                    | ND           |           | 0.00156   | 1        | 03/15/2017 14:11 | WG960996 | 8   |
| TPH (GC/FID) Low Fraction       | ND           |           | 0.104     | 1        | 03/15/2017 14:11 | WG960996 | Ĩ,  |
| (S) a,a,a-Trifluorotoluene(FID) | 98.1         |           | 77.0-120  |          | 03/15/2017 14:11 | WG960996 |     |
| (S) a,a,a-Trifluorotoluene(PID) | 90.3         |           | 75.0-128  |          | 03/15/2017 14:11 | WG960996 | 9 9 |

#### Semi-Volatile Organic Compounds (GC) by Method 8015

|                      | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis         | Batch    |
|----------------------|--------------|-----------|-----------|----------|------------------|----------|
| Analyte              | mg/kg        |           | mg/kg     |          | date / time      |          |
| C10-C28 Diesel Range | ND           |           | 4.17      | 1        | 03/14/2017 17:55 | WG960794 |
| C28-C40 Oil Range    | ND           |           | 4.17      | 1        | 03/14/2017 17:55 | WG960794 |
| (S) o-Terphenyl      | 84.8         |           | 18.0-148  |          | 03/14/2017 17:55 | WG960794 |

Totaï Solidsiby Method 2540 G-2011

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

| (MB) R3203429-1 | 03/14/17 15:33 |              |        |        |
|-----------------|----------------|--------------|--------|--------|
|                 | MB Result      | MB Qualifier | MB MDL | MB RDL |
| Analyte         | %              |              | %      | %      |
| Total Solids    | 0.000700       |              |        |        |

#### L895726-02 Original Sample (OS) • Duplicate (DUP)

| (OS) L895726-02 03/14/17 15:33 • (DUP) R3203429-3 03/14/17 15:33 |                        |            |          |         |                      |                |  |  |  |
|--|------------------------|------------|----------|---------|----------------------|----------------|--|--|--|
|  | <b>Original Result</b> | DUP Result | Dilution | DUP RPD | <b>DUP</b> Qualifier | DUP RPD Limits |  |  |  |
| Analyte  | %                      | %          |          | %       |                      | %              |  |  |  |
| Total Solids   | 82.5                   | 79.1       | 1        | 4.22    |                      | 5              |  |  |  |

#### Laboratory Control Sample (LCS)

| (LCS) R3203429-2 03/14/1 | 7 15:33      |            |          |             |               |
|--------------------------|--------------|------------|----------|-------------|---------------|
|                          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte                  | %            | %          | %        | %           |               |
| Total Solids             | 50.0         | 50.0       | 99.9     | 85.0-115    |               |

ACCOUNT: XTO Energy - San Juan Division

PROJECT:

SDG: L895711 DATE/TIN 03/15/17 17

Wet Chemistry by Method 9056A

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

| (MB) R3203344-1 | 03/14/17 15:47 |              |        |        |
|-----------------|----------------|--------------|--------|--------|
|                 | MB Result      | MB Qualifier | MB MDL | MB RDL |
| Analyte         | mg/kg          |              | mg/kg  | mg/kg  |
| Chloride        | U              |              | 0.795  | 10.0   |

#### L894992-01 Original Sample (OS) • Duplicate (DUP)

| (OS) L894992-01 03/14/17 | 16:51 • (DUP) R3 | 3203344-4 03/ | /14/17 17:0 | 0       |               |                |  |  |
|--------------------------|------------------|---------------|-------------|---------|---------------|----------------|--|--|
|                          | Original Result  | DUP Result    | Dilution    | DUP RPD | DUP Qualifier | DUP RPD Limits |  |  |
| Analyte                  | mg/kg            | mg/kg         |             | %       |               | %              |  |  |
| Chloride                 | 83.9             | 86.3          | 1           | 3       |               | 15             |  |  |

#### L895592-04 Original Sample (OS) • Duplicate (DUP)

| (OS) L895592-04 03/14/17 19:33 • (DUP) R3203344-7 03/14/17 19:42 |                        |            |          |         |                      |                |  |  |
|--|------------------------|------------|----------|---------|----------------------|----------------|--|--|
|  | <b>Original Result</b> | DUP Result | Dilution | DUP RPD | <b>DUP</b> Qualifier | DUP RPD Limits |  |  |
| Analyte  | mg/kg                  | mg/kg      |          | %       |                      | %              |  |  |
| Chloride   | 65.8                   | 63.8       | 1        | 3       |                      | 15             |  |  |

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3203344-2 03/14/ | 17 16:23 • (LCSD | ) R3203344-3 | 03/14/17 16:32 |          |           |             |               |                |     |                   |
|-------------------------|------------------|--------------|----------------|----------|-----------|-------------|---------------|----------------|-----|-------------------|
|                         | Spike Amount     | LCS Result   | LCSD Result    | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | <b>RPD</b> Limits |
| Analyte                 | mg/kg            | mg/kg        | mg/kg          | %        | %         | %           |               |                | %   | %                 |
| Chloride                | 200              | 197          | 196            | 98       | 98        | 80-120      |               |                | 1   | 15                |

#### L895592-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| OS) L895592-03 03/14/17 18:48 • (MS) R3203344-5 03/14/17 19:15 • (MSD) R3203344-6 03/14/17 19:24 |              |                        |           |            |         |          |          |             |              |               |   |
|--|--------------|------------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|---|
|  | Spike Amount | <b>Original Result</b> | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | R |
| Analyte  | mg/kg        | mg/kg                  | mg/kg     | mg/kg      | %       | %        |          | %           |              |               | % |
| Chloride   | 500          | 85.6                   | 608       | 600        | 104     | 103      | 1        | 80-120      |              |               | 1 |

ACCOUNT: XTO Energy - San Juan Division PROJECT:

SDG: L895711 DATE/TIN 03/15/17 17

Volațile Organic Compounds (GC) by Method 8015/8021

## QUALITY CONTROL SUMMARY

#### Method Blank (MB)

| (MB) R3203562-5 03/15/17        | 12:11     |              |          |          |
|---------------------------------|-----------|--------------|----------|----------|
|                                 | MB Result | MB Qualifier | MB MDL   | MB RDL   |
| Analyte                         | mg/kg     |              | mg/kg    | mg/kg    |
| Benzene                         | U         |              | 0.000120 | 0.000500 |
| Toluene                         | 0.000153  | ī            | 0.000150 | 0.00500  |
| Ethylbenzene                    | U         |              | 0.000110 | 0.000500 |
| Total Xylene                    | U         |              | 0.000460 | 0.00150  |
| TPH (GC/FID) Low Fraction       | U         |              | 0.0217   | 0.100    |
| (S) a,a,a-Trifluorotoluene(FID) | 100       |              |          | 77.0-120 |
| (S) a,a,a-Trifluorotoluene(PID) | 92.0      |              |          | 75.0-128 |
|                                 |           |              |          |          |

#### Laboratory Control Sample (LCS) · Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3203562-1 03/15/17       | 10:24 • (LCSD) | R3203562-2 | 03/15/17 10:45 |          |           |             |               |                |      |                   |
|---------------------------------|----------------|------------|----------------|----------|-----------|-------------|---------------|----------------|------|-------------------|
|                                 | Spike Amount   | LCS Result | LCSD Result    | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | <b>RPD</b> Limits |
| Analyte                         | mg/kg          | mg/kg      | mg/kg          | %        | %         | %           |               |                | %    | %                 |
| Benzene                         | 0.0500         | 0.0570     | 0.0492         | 114      | 98.4      | 71.0-121    |               |                | 14.7 | 20                |
| Toluene                         | 0.0500         | 0.0563     | 0.0486         | 113      | 97.1      | 72.0-120    |               |                | 14.8 | 20                |
| Ethylbenzene                    | 0.0500         | 0.0574     | 0.0494         | 115      | 98.8      | 76.0-121    |               |                | 14.9 | 20                |
| Total Xylene                    | 0.150          | 0.178      | 0.157          | 119      | 104       | 75.0-124    |               |                | 12.7 | 20                |
| (S) a,a,a-Trifluorotoluene(FID) |                |            |                | 98.8     | 99.4      | 77.0-120    |               |                |      |                   |
| (S) a,a,a-Trifluorotoluene(PID) |                |            |                | 99.6     | 99.6      | 75.0-128    |               |                |      |                   |
|                                 |                |            |                |          |           |             |               |                |      |                   |

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3203562-3 03/15/17       | 7 11:07 • (LCSD) | R3203562-4 | 03/15/17 11:28 |          |           |             |               |                |      |                   |
|---------------------------------|------------------|------------|----------------|----------|-----------|-------------|---------------|----------------|------|-------------------|
|                                 | Spike Amount     | LCS Result | LCSD Result    | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | <b>RPD</b> Limits |
| Analyte                         | mg/kg            | mg/kg      | mg/kg          | %        | %         | %           |               |                | %    | %                 |
| TPH (GC/FID) Low Fraction       | 5.50             | 6.02       | 6.15           | 110      | 112       | 70.0-136    |               |                | 2.13 | 20                |
| (S) a,a,a-Trifluorotoluene(FID) |                  |            |                | 101      | 101       | 77.0-120    |               |                |      |                   |
| (S) a,a,a-Trifluorotoluene(PID) |                  |            |                | 110      | 110       | 75.0-128    |               |                |      |                   |

ACCOUNT: XTO Energy - San Juan Division PROJECT:

SDG: L895711 DATE/TIN 03/15/17 1;

#### Sem(-Volatile Organic Compounds (GC) by Method 8015

## QUALITY CONTROL SUMMARY

Method Blank (MB)

| MDL MB RDL |
|------------|
| kg mg/kg   |
| 4.00       |
| 4 4.00     |
| 18.0-148   |
|            |

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3203315-2 03/14/17 | 17:30 • (LCSD) | R3203315-3 | 03/14/17 17:43 |          |           |             |               |                |      |                   |
|---------------------------|----------------|------------|----------------|----------|-----------|-------------|---------------|----------------|------|-------------------|
|                           | Spike Amount   | LCS Result | LCSD Result    | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | <b>RPD</b> Limits |
| Analyte                   | mg/kg          | mg/kg      | mg/kg          | %        | %         | %           |               |                | %    | %                 |
| C10-C28 Diesel Range      | 60.0           | 32.6       | 34.0           | 54.3     | 56.7      | 50.0-150    |               |                | 4.28 | 20                |
| (S) o-Terphenyl           |                |            |                | 78.4     | 90.8      | 18.0-148    |               |                |      |                   |

ACCOUNT: XTO Energy - San Juan Division PROJECT:

SDG: L895711 DATE/TIN 03/15/17 17

## GLOSSARY OF TERMS

| <sup>2</sup> T( |
|-----------------|
| <sup>3</sup> Ss |
| <sup>4</sup> Cr |
| <sup>5</sup> Sr |
| <sup>6</sup> Q( |
|                 |

<sup>8</sup>Al <sup>9</sup>Sc

| Abbreviations and | d Definitions  |
|-------------------|--|
| SDG               | Sample Delivery Group.   |
| MDL               | Method Detection Limit.  |
| RDL               | Reported Detection Limit.  |
| ND                | Not detected at the Reporting Limit (or MDL where applicable).   |
| U                 | Not detected at the Reporting Limit (or MDL where applicable).   |
| RPD               | Relative Percent Difference.   |
| (dry)             | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].   |
| Original Sample   | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| (S)               | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control<br>Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring<br>recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec.              | Recovery.  |
| Qualifier         | Description  |
| J                 | The identification of the analyte is acceptable; the reported value is an estimate.  |

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### ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**. \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

#### State Accreditations

| A2LA - ISO 17025 <sup>5</sup><br>Canada | 1461.02<br>1461.01 |   | DOD                         | 1461.01<br>S-67674 |  |
|---|--------------------|---|-----------------------------|--------------------|--|
| A2LA - ISO 17025                        | 1461.01            | and the second se | AIHA-LAP,LLC                | 100789             | all from a disconsistent of the second of th |
| Third Party & Fe                        | ederal Accred      | ditations   |                             |                    |  |
| Nebraska                                |                    | NE-OS-15-05   |                             |                    |  |
| Montana                                 |                    | CERT0086  | Wyoming                     |                    | AZLA   |
| Missouri                                |                    | 340   | Wisconsin                   |                    | 9980939910   |
| Mississippi                             |                    | TN00003   | West Virginia               |                    | 233  |
| Minnesota                               |                    | 047-999-395   | Washington                  |                    | C1915  |
| Michigan                                |                    | 9958  | Virginia                    |                    | 109  |
| Massachusetts                           |                    | M-TN003   | Vermont                     |                    | VT2006   |
| Maryland                                |                    | 324   | Utah                        |                    | 6157585858   |
| Maine                                   |                    | TN0002  | Texas <sup>5</sup>          |                    | LAB0152  |
| Louisiana                               |                    | AI30792   | Texas                       |                    | T 104704245-07-TX  |
| Kentucky <sup>2</sup>                   |                    | 16  | Tennessee 14                |                    | 2006   |
| Kentucky <sup>1</sup>                   |                    | 90010   | South Dakota                |                    | n/a  |
| Kansas                                  |                    | E-10277   | South Carolina              |                    | 84004  |
| lowa                                    |                    | 364   | Rhode Island                |                    | 221  |
| Indiana                                 |                    | C-TN-01   | Pennsylvania                |                    | 68-02979   |
| Illinois                                |                    | 200008  | Oregon                      |                    | TN200002   |
| Idaho                                   |                    | TN00003   | Oklahoma                    |                    | 9915   |
| Georgia 1                               |                    | 923   | Ohio-VAP                    |                    | CL0069   |
| Georgia                                 |                    | NELAP   | North Dakota                |                    | R-140  |
| Florida                                 |                    | E87487  | North Carolina <sup>2</sup> |                    | 41   |
| Conneticut                              |                    | PH-0197   | North Carolina 1            |                    | DW21704  |
| Colorado                                |                    | TN00003   | North Carolina              |                    | Env375   |
| California                              |                    | 01157CA   | New York                    |                    | 11742  |
| Arkansas                                |                    | 88-0469   | New Mexico                  |                    | TN00003  |
| Arizona                                 |                    | AZ0612  | New Jersey-NELAP            |                    | TN002  |
| Alaska                                  |                    | UST-080   | New Hampshire               |                    | 2975   |
| Alabama                                 |                    | 40660   | Nevada                      |                    | TN-03-2002-34  |

<sup>1</sup> Drinking Water <sup>2</sup>. Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>-7</sup> Accreditation not applicable

**Our Locations** 

TN00003

EPA-Crypto

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



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#### A-152

|  | Quot          | e Number              |          |                                  | Page of           |                    | -        | Ar       | alys       | s/Co      | nta   |
|--|---------------|-----------------------|----------|----------------------------------|-------------------|--------------------|----------|----------|------------|-----------|-------|
| ХТО                                      | XTC           | Contact               |          |                                  | XTO Contact Phor  | 10 18              | 1        |          |            |           |       |
| ENERGY                                   |               |                       | Email    | Results                          | to:               | Service Management | 1        |          |            |           |       |
| Western Division                         |               |                       |          |                                  | 2                 | m                  | 9        | ſ        |            |           |       |
| Well Site/Location                       | API           | Number                |          | Saturday Delivery (Y /(N))       |                   |                    |          |          |            |           |       |
| Collected By                             | Sam           | ples on Ice<br>Y / N) |          | St                               | Turnaround        |                    | 3        | 1-       |            |           |       |
| Company<br>X70<br>Signature              | Bat clo       | t Reason              | interne  | Nent Day<br>Two Day<br>Three Day |                   |                    |          | GTEX     | des        |           |       |
| to -                                     | Gray Areas    | for Lab Us            | e Only!  | Date N                           | eeded             |                    | 11       | 5        | 125        |           |       |
| Sample ID                                | Sample Name   | Media                 | Date     | Time                             | Preservative      | No. of<br>Conts.   | 8015     | 1208     | 5          |           |       |
| BGT composite Be                         | it composite  | 5                     | 3-13     | 1515                             | 6001              | 1-402              | $\times$ | $\times$ | $\geq$     |           |       |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   |               |                       |          |                                  |                   |                    |          |          |            |           |       |
|  |               |                       |          |                                  |                   |                    |          |          |            |           |       |
|  |               |                       |          |                                  |                   |                    |          |          |            |           |       |
|  |               |                       |          |                                  |                   |                    |          |          |            |           |       |
|  |               |                       |          |                                  |                   |                    | -        |          |            |           |       |
|  |               |                       |          |                                  |                   |                    |          |          |            |           | -     |
|  |               |                       |          |                                  |                   |                    |          |          |            |           |       |
|  |               |                       |          |                                  |                   |                    |          |          |            |           |       |
|  |               |                       |          |                                  |                   |                    | -        |          |            |           |       |
| Media : Filter = F Soll = S Wastewater : | WW Groundwate | r=GW Dr               | inking W | aster = D                        | W Sludge = SG Su  | rface Water        | = SW     | Air      | AI         | Drill M   | lud = |
| Relinquished By: (Signature)             |               | Date: 7-13            | -17      | Time:<br>/3 3()                  | Received By: (Sig | nature)            | 1        |          |            |           | Nun   |
| Relinquished By: (Signature)             | Date:         | l                     | Time:    | 6127                             | 6739              | 4                  | 64       | 5        |            | Tem<br>2. |       |
| Relinquished By: (Signature)             | Date: Time:   |                       |          | Received for Lab                 | ture)             |                    |          |          | Dat<br>3-1 |           |       |
| Comments                                 |               |                       |          |                                  | - 7754            |                    |          |          |            |           |       |

\* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

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#### Report generated on 4/4/2017 1:43:43 PM

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Well Below Grade Tank Inspection

.

Dates: 6/1/2008-3/1/2017

Type: RouteStop

Type Value: BROWN 003

|   |                |             |                     |                  |                  |                               |                   |                      |              |                      |                         |                 | A CONTRACT OF A |
|---|----------------|-------------|---------------------|------------------|------------------|-------------------------------|-------------------|----------------------|--------------|----------------------|-------------------------|-----------------|---|
|   | Route Name     | StopName    | Pumper              | Foreman          | Well<br>Name     | API Well Number               | Section           | Range                | Township     |                      |                         |                 |   |
|   | DEN NM Run 46  | BROWN 003   | Jensen,<br>Dustin   | Durham,<br>Ken   | BROWN<br>03      | 3004529900                    | 29                | 12W                  | 30N          |                      |                         |                 |   |
|   |                |             |                     |                  |                  |                               |                   |                      |              |                      |                         |                 |   |
|   | Inspector Name | Record Date | Inspectio<br>n Time | Visible<br>Liner | Visible<br>Liner | Visible Tank<br>Leak Overflow | Collectio<br>n Of | Visible<br>Layer Oil | Visible Leak | Freeboar<br>d Est FT | Pit Location            | Pit Type        | Notes   |
|   | Luke McCollum  | 9/23/2008   | 12:00               | No               | No               | No                            | No                | No                   | No           | 6                    |                         |                 |   |
|   | jerry nelson   | 10/28/2008  | 04:20               | No               | No               | No                            | No                | No                   | No           | 4                    | Well Water Pit          | Below<br>Ground |   |
|   | jerry nelson   | 11/7/2008   | 07:45               | No               | No               | No                            | No                | No                   | No           | 4                    | Well Water Pit          | Below<br>Ground |   |
|   | jerry nelson   | 12/2/2008   | 11:50               | No               | No               | No                            | No                | No                   | No           | 6                    | Compressor Water<br>Pit | Below<br>Ground |   |
|   | jerry nelson   | 2/3/2009    | 10:35               | No               | No               | No                            | No                | No                   | No           | 6                    | Compressor Water<br>Pit | Below<br>Ground |   |
|   | Dustin Jensen  | 3/9/2009    | 09:05               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | Eric Urioste   | 4/14/2009   | 09:05               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | Eric Urioste   | 6/12/2010   | 12:40               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | Eric Urioste   | 7/13/2010   | 10:10               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | Eric Urioste   | 8/16/2010   | 12:30               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | Eric Urioste   | 11/2/2010   | 12:13               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | Eric Urioste   | 3/10/2011   | 02:10               | No               | No               | No                            | No                | No                   | No           | 6                    | Well Water Pit          | Below<br>Ground |   |
|   | TL             | 5/9/2011    | 02:00               | No               | No               | No                            | No                | No                   | No           | 3                    | Well Water Pit          | Below<br>Ground |   |
|   | JT             | 8/23/2011   | 01:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | JT             | 9/28/2011   | 09:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | т              | 11/17/2011  | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | т              | 12/20/2011  | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | TL             | 1/23/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | TL             | 2/27/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | т              | 3/29/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | TL             | 4/30/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | т              | 5/29/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
| _ | TL             | 6/29/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | т              | 7/26/2012   | 02:30               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | т              | 8/23/2012   | 02:35               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | TL             | 9/25/2012   | 02:35               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |
|   | JT             | 10/25/2012  | 02:35               | No               | No               | No                            | No                | No                   | No           | 2                    | Well Water Pit          | Below<br>Ground |   |

|            | MOIOR  | AVEIL VARIEF PT  | 7 | ON     | ON     | ON  | ON   | ON   | ON   | 66:20 | 7107/97/71  |  |
|------------|--------|------------------|---|--------|--------|-----|------|------|------|-------|-------------|--|
|            | Ground | Well Water Pit   | 2 | oN     | ON     | oN  | ٥N   | oN   | oN   | 03:35 | 1/31/5013   |  |
|            | Ground | Ho voteW IIeW    | 2 | ٥N     | UN CON | UN  | ON   | UN . | MN . | 92.20 | 5/28/2013   |  |
|            | Ground | Mail Meres Dr.   | - | 3N     | -N     | -N  | 01   | -14  |      | 00.55 | CFUC/UC/V   |  |
|            | Ground | Net langer light |   | 01     | -14    | 01  |      | -14  | 01   | 00:11 | CL07/00/3   |  |
|            | Ground | AVGII VV216Y PR  | 7 | ON     | ON     | ON  | ON   | ON   | ON   | SZ:LO | £L07/97/9   |  |
|            | Ground | Well Water Pit   | z | oN     | ON     | ON  | oN   | ON   | ON   | 52:01 | 6/27/2013   |  |
|            | Ground | Well Water Pit   | z | oN     | ON     | oN  | oN   | ON   | ON   | 10:25 | 2/31/2013   |  |
|            | Below  | Well Water Pit   | z | ٥N     | ON     | oN  | ٥N   | oN   | oN   | SZ:01 | 8\59\5013   |  |
|            | Below  | Well Water Pit   | 2 | oN     | ON     | ٥N  | oN   | ON   | ٥N   | 12:25 | 8/30/5013   |  |
|            | Below  | Well Water Pit   | 2 | oN     | oN     | oN  | ٥N   | ٥N   | oN   | 00:11 | 10/10/2013  |  |
|            | Below  | Well Water Pit   | 2 | ٥N     | ٥N     | ٥N  | ٥N   | ٥N   | oN   | 00:11 | 11/27/2013  |  |
|            | Below  | Well Water Pit   | 2 | oN     | oN     | oN  | oN   | oN   | oN   | 00:11 | 15/56/5013  |  |
|            | Ground | Well Water Pit   | S | oN     | oN     | oN  | oN   | oN   | oN   | 00:11 | 1/31/5014   |  |
|            | Ground | Well Water Pit   | 9 | oN     | oN     | oN  | oN   | oN   | oN   | 12:50 | 2/28/2014   |  |
|            | Ground | +C -oteM IIoM    | 9 | UN .   | -N     | -N  | UN   | -N   | -N   | 33.10 | PEUCIVE     |  |
|            | Ground | Net JOINA HOAA   |   | 01     | 01     | 04  | 01   | 01   | 011  | 00110 | +107/10/2   |  |
|            | Ground | TYRE VARIET PIL  | 9 | ON     | ON     | ON  | ON   | ON   | ON   | 01:11 | \$107/67/6  |  |
|            | Ground | Well Water Pit   | 9 | oN     | oN     | ON  | oN   | ON   | ON   | 01:30 | 6/30/2014   |  |
|            | Below  | Well Water Pit   | 9 | oN     | ON     | ON  | ON   | oN   | ON   | 01:30 | 1/25/2014   |  |
|            | Below  | Well Water Pit   | 9 | oN     | oN     | oN  | ON   | oN   | oN   | 01:30 | \$\26\2014  |  |
|            | Below  | Well Water Pit   | 9 | ٥N     | oN     | ON  | oN   | oN   | oN   | 01:30 | 6/30/2014   |  |
| bit empty  | wolag  | Well Water Pit   | 9 | ٥N     | oN     | ON  | 0N   | oN   | oN   | 12:00 | 10/28/2014  |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | oN     | ON  | ٥N   | oN   | ٥N   | 12:00 | 11/26/2014  |  |
| vtame tiq  | Ground | Well Water Pit   | 9 | oN     | oN     | ON  | oN   | oN   | oN   | 13:00 | 12/30/2014  |  |
| vtome tig  | Ground | #d vateW II9W    | 9 | oN     | ON     | ON  | oN   | oN   | aN   | 82:10 | 1/20/2015   |  |
| Andura und | Ground | Net Jourse upon  |   |        |        | -1  |      | -14  | -14  | 02.10 | 3100:00/6   |  |
| bit empty  | Ground | vieli Water Pit  | 9 | ON     | ON     | ON  | ON   | ON   | ON   | 87:10 | SL07/67/1   |  |
| bit empty  | Ground | Well Water Pit   | 9 | oN     | oN     | ON  | ON   | ON   | ON   | 57:10 | 3/20/2018   |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | oN     | oN  | ON   | oN   | oN   | 15:55 | 4/28/2018   |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | oN     | ON  | oN   | ON   | oN   | 54:10 | \$121/2018  |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | ٥N     | oN  | ٥N   | oN   | oN   | 59:10 | 6/29/2015   |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | ٥N     | ٥N  | oN   | oN   | oN   | 12:25 | 2/29/2016   |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | oN     | ON  | ٥N   | ٥N   | ٥N   | 12:25 | 8/27/2015   |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | oN     | ٥N  | oN   | ٥N   | ٥N   | OL:LL | 9/30/2018   |  |
| pit empty  | Below  | Well Water Pit   | 9 | ٩N     | oN     | ٥N  | ٥N   | oN   | ٥N   | 91:20 | 1/31/5016   |  |
| bit empty  | Below  | Well Water Pit   | 9 | oN     | oN     | oN  | oN   | oN   | ٥N   | 91:50 | \$\31\2016  |  |
| pit empty  | Ground | Well Water Pit   | 9 | on     | oN     | ON  | ٥N   | oN   | oN   | 03:05 | 7/26/2016   |  |
| pit empty  | Ground | Well Water Pit   | 9 | oN     | oN     | oN  | oN   | oN   | oN   | 03:05 | 8/31/2016   |  |
| Colore tig | Ground | tid veteW lieW   | 9 | UN CON | UN     | ON  | ON N | oN   | oN   | 03:00 | 9/20/2016   |  |
| Andrea and | Ground | 1.1 101044 11244 |   | 01     | -      | -   | 01   | -    |      | 00.50 | 9102/01/01  |  |
| bu subt    | Ground | THE LETTERY HEAT |   | ON     | ON     | ON  | 01   | ON   | 01   | 00.00 | 91.07/00/01 |  |
| bit empty  | Ground | Well Water Pit   | 9 | ON     | ON     | ON  | ON   | ON   | ON   | 00:00 | 9107/97/11  |  |
| bit empty  | Ground | Well Water Pit   | 9 | oN     | ON     | ON  | ON   | ON   | ON   | 00:ZL | 9102/62/21  |  |
| vtame tiq  | Ground | Well Water Pit   | 9 | ON     | ON     | oN  | oN   | oN   | oN   | 12:00 | 1/31/2017   |  |
| 4.4        |        |                  | - |        |        | -14 | -14  |      | -14  | 00.01 | 2106/86/6   |  |

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| District IState of New Mexico1625 N. French Dr., Hobbs, NM 88240Energy Minerals and Natural ResourcesDistrict IIDepartment1301 W. Grand Avenue, Artesia, NM 88210DepartmentDistrict IIIOil Conservation Division1000 Rio Brazos Road, Aztec, NM 874101220 South St. Francis Dr.District IVSanta Fe, NM 875051220 S. St. Francis Dr., Santa Fe, NM 87505Santa Fe, NM 87505 | For temporary pit<br>below-grade tanks<br>NMOCD District O<br>For permanent pit<br>the Santal Fe Enviry<br>provide a copy tot<br>District Office. | Form C-144<br>July 21, 2008<br>is, closed-loop systems, and<br>s, submit to the appropriate<br>Office.<br>Is and exceptions submit to<br>obmichtal Bureau office and<br>the appropriate NMOCD |
|---|---|---|
| Pit, Closed-Loop System, Below-Grade T  | ank. or   | 11 1 01   |
| Proposed Alternative Method Permit or Closure P   | lan Applicati   | on  |
| Type of action:<br>Existing BGT Closure of a pit, closed-loop system, below-grade tank, or<br>Modification to an existing permit  | proposed alternation proposed alternation   | ive method<br>tive method   |
| below-grade tank, or proposed alternative method  | non-permitted pit,  | closed-loop system,   |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system   | m, below-grade tank   | k or alternative request  |
| 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 go  | emmental authority's  | s rules, regulations or ordinances.   |
| Operator: XTO Energy, Inc. OGRID #:   | 5380  |   |
| Address: #382 County Road 3100, Aztec, NM 87410   | 0I  | IL CONS. DIV DIST. 3  |
| Facility or well name:BROWN # 3   |   | APD 1 4 2017  |
| API Number: 30-045-29900 OCD Permit Number:   |   | AFRITECON   |
| U/L or Qtr/Qtr _O Section Township 30 N Range 12W County:   | San Juan  | and a second  |
| Center of Proposed Design: Latitude <u>36.77864</u> Longitude <u>108.11944</u>  | NAD: 192  | 7 🖂 1983  |
| Surface Owner: 🗋 Federal 🗋 State 🖾 Private 🗋 Tribal Trust or Indian Allotment   |   |   |
| 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.  | Dimensions: L   | x Wx D  |
| 3. Closed-loop System: Subsection H of 19 15 17 11 NMAC   |   | And a second  |
| Type of Operation:       P&A       Drilling a new well       Workover or Drilling (Applies to activities whintent)         Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other         L       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC         Liner Seams:       Welded       Factory       Other     | ch require prior appr<br>Other  | roval of a permit or notice of  |
| 4.  |   |   |
| Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl Type of fluid:       Produced Water         Tank Construction material:       Steel  | erflow shut-off<br>atic high-level shut   | off. no liner   |
| S.  |   |   |

#### Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted 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, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other Expanded metal or solid vaulted top

Monthly inspections (If netting or screening is not physically feasible)

#### Subsection C of 19.15.17.11 NMAC

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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:

10.

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Pi : check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

#### Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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.

| <ul> <li>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>   | Yes 🗋 No     |
|--|--------------|
| 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).<br>- Topographic map; Visual inspection (certification) of the proposed site   | Yes 🗌 No     |
| <ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>  | Yes No       |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)   | Yes No<br>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.<br>- 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<br>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | 🗋 Yes 🛛 No   |
| Within 500 feet of a wetland.<br>- 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   |
| <ul> <li>W an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological<br/>Society; Topographic map</li> </ul>   | 🗋 Yes 🖾 No   |
| Within a 100-year floodplain.<br>- FEMA map  | 🗆 Yes 🖾 No   |

Form C-144

| 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.            \[  |  |  |  |
| 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. <ul> <li>Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Climatological Factors Assessment</li> <li>Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Quality Control/Quality Assurance Construction and Installation Plan</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan</li> <li>Emergency Response Plan</li> <li>Oil Field Waste Stream Characterization</li> <li>Monitoring and Inspection Plan</li> <li>Erosion Control Plan</li> <li>Erosion Charder Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul> |  |  |  |
| Proposed Closure: 19.15.17.13 NMAC<br>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)  |  |  |  |
| <ul> <li>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.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC</li> </ul>  |  |  |  |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D<br>Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if n<br>facilities are required.  | NMAC)<br>nore than two                                      |  |
|--|---|--|
| Disposal Facility Name: Disposal Facility Permit Number:   | Disposal Facility Permit Number:                            |  |
| Disposal Facility Name: Disposal Facility Permit Number:   | Name: Disposal Facility Permit Number:                      |  |
| Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future serv<br>Yes (If yes, please provide the information below) No  | ice and operations?   |  |
| Required for impacted areas which will not be used for future service and operations:         Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 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   | 2   |  |
| <sup>17.</sup><br><u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC<br>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour<br>provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distr<br>considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justig<br>demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | ce material are<br>ict office or may be<br>fications and/or |  |
| 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<br>□ NA  |  |
| Ground water is between 50 and 100 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | □ Yes □ No<br>□ NA  |  |
| <ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>   | □ Yes □ No<br>□ NA  |  |
| <ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | Yes 🗌 No  |  |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- 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.<br>- 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<br>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | 🗋 Yes 🗌 No  |  |
| Within 500 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | Yes No  |  |
| <ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>  | 🗋 Yes 🗌 No  |  |
| <ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological<br/>Society; Topographic map</li> </ul>  | 🗌 Yes 🗌 No  |  |
| Within a 100-year floodplain.<br>- FEMA map  | 🗋 Yes 🗌 No  |  |
| 18.<br>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan   | an. 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 I 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

| 0. Operator Application Certification:   |                                  |  |  |
|--|----------------------------------|--|--|
| I hereby certify that the information submitted with this application is tr  | ue, accurate and complete to the | ne best of my knowledge and belief.                  |  |
| Name (Print): Kim Champlin   | Title:                           | Environmental Representative                         |  |
| Signature: Kim Champlin  | Date                             | 11/21/08   |  |
| e-mail address: kim champlin@xtoenergy.com   | Telephone:                       | (505) 333-3100                                       |  |
|  | Telepholie.                      | (30) 33-3100   |  |
| 20.<br>OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)   |                                  |  |  |
| OCD Representative Signature: Condour aufis  | Randolph Bayliss                 | Approval Date: 02Mar17                               |  |
| Title: Hydrologist   | OCD Permit Num                   | ber:   |  |
| 21.<br><u>e Report (required within 60 days of closure completion)</u> : Subsection K of 19.15.17.13 NMAC<br>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report.<br>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<br>section of the form until an approved closure plan has been obtained and the closure activities have been completed.   |                                  |  |  |
|  | Closure Com                      | pletion Date:  |  |
| <ul> <li>22.</li> <li>Closure Method:</li> <li>Waste Excavation and Removal On-Site Closure Method</li> <li>If different from approved plan, please explain.</li> </ul>  | Alternative Closure Method       | Waste Removal (Closed-loop systems only)             |  |
| 23.<br><u>e Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only</u> :<br>Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more<br>two facilities were utilized.   |                                  |  |  |
| Disposal Facility Name:  | Disposal Facility P              | ermit 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?<br>Yes (If yes, please demonstrate compliance to the items below) No  |                                  |  |  |
| Required for impacted areas which will not be used for future service an <ul> <li>Site Reclamation (Photo Documentation)</li> <li>Soil Backfilling and Cover Installation</li> <li>Re-vegetation Application Rates and Seeding Technique</li> </ul>  | nd operations:                   |  |  |
| 24.       C       Report Attachment Checklist: Instructions: Each of the following the box, that the documents are attached. <ul> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure)</li> <li>Plot Plan (for on-site closures and temporary pits)</li> <li>Confirmation Sampling Analytical Results (if applicable)</li> <li>Waste Material Sampling Analytical Results (required for on-site Disposal Facility Name and Permit Number</li> <li>Soil Backfilling and Cover Installation</li> <li>Re-vegetation Application Rates and Seeding Technique</li> <li>Site Reclamation (Photo Documentation)</li> </ul> | llowing items must be attached   | t to the closure report. Please indicate, by a check |  |
| On-site Closure Location: Latitude   | Longitude                        | NAD: 1927 🗖 1983                                     |  |
| 25.<br>Operator Closure Certification:<br>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<br>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:   |                                  |  |  |
| c-mail address:  | Telephone:                       |  |  |