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FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EMMRO-OCD ARTESIA

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM120895	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.	
2. Name of Operator XTO ENERGY INCORPORATED		8. Lease Name and Well No. CHAIN-BLUE LIGHTNING 26 FED 167H 327052	
3a. Address 2277 Springwoods Village Parkway Spring TX 77389	3b. Phone No. (include area code) (432)620-6700	9. API Well No. 30-015-46646	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 365 FSL / 523 FEL / LAT 32.109159 / LONG -103.948262 At proposed prod. zone SESE / 200 FSL / 990 FEL / LAT 32.094112 / LONG -103.949665		10. Field and Pool, or Exploratory PIERCE CROSSING BONE SPRING, EA	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish EDDY	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 365 feet	16. No of acres in lease 1280	17. Spacing Unit dedicated to this well 320	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet	19. Proposed Depth 11339 feet / 16467 feet	20. BLM/BIA Bond No. in file FED: UTB000138	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3088 feet	22. Approximate date work will start* 09/01/2019	23. Estimated duration 90 days	
24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Stephanie Rabadue / Ph: (432)620-6714	Date 10/07/2019
Title Regulatory Coordinator		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 11/26/2019
Title Petroleum Engineer Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS
Approval Date: 11/26/2019

RUP 1-27-2020

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: SESE / 365 FSL / 523 FEL / TWSP: 25S / RANGE: 29E / SECTION: 23 / LAT: 32.109159 / LONG: -103.948262 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 330 FNL / 990 FEL / TWSP: 25S / RANGE: 29E / SECTION: 26 / LAT: 32.10725 / LONG: -103.949764 (TVD: 11339 feet, MD: 11700 feet)
BHL: SESE / 200 FSL / 990 FEL / TWSP: 25S / RANGE: 29E / SECTION: 26 / LAT: 32.094112 / LONG: -103.949665 (TVD: 11339 feet, MD: 16467 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

Approval Date: 11/26/2019

(Form 3160-3, page 3)

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy, Inc.
LEASE NO.:	NMNM-120895
WELL NAME & NO.:	Chain-Blue Lightning 26 Fed 167H
SURFACE HOLE FOOTAGE:	0365' FSL & 0523' FEL
BOTTOM HOLE FOOTAGE:	0200' FSL & 0990' FEL Sec. 26, T. 25 S., R 29 E.
LOCATION:	Section 23, T. 25 S., R 29 E., NMPM
COUNTY:	County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water and brine flows in the Salado and Castile.

Possibility of lost circulation in the Rustler, Red Beds, and Delaware.

1. **The 18-5/8 inch surface casing shall be set at approximately 700 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt and cemented to the surface.**

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing, which shall be set at approximately **3230** feet in the **Lamar Limestone**, is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

9-5/8" 2nd Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3. The minimum required fill of cement behind the **9-5/8** inch 2nd intermediate casing is:

Operator has proposed DV tool at depth of 4200', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool: _____

- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve approved top of cement on the next stage.
- b. Second stage above DV tool:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required through the curve and a minimum of one every other joint.

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements,**

specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. **Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.**

4. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8" 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8" 1st intermediate casing shoe shall be psi.**
 - a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
 - b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
 - c. **Manufacturer representative shall install the test plug for the initial BOP test.**
 - d. **Operator shall perform the 9-5/8" 2nd intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.**
 - e. **If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

5. **The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.**

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 110419

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Chain-Blue Lightning 26 Fed 167H
SURFACE HOLE FOOTAGE:	365'/S & 523'/E
BOTTOM HOLE FOOTAGE:	200'/S & 990'/E
LOCATION:	Section 23, T.25 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions**
- Permit Expiration**
- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
- Special Requirements**
 - Hydrology
 - Texas Horn Shell
- Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- Road Section Diagram**
- Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be

taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

Texas Hornshell

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA

Boundary Requirements:

- Provide CEHMM with the permit, lease grant, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

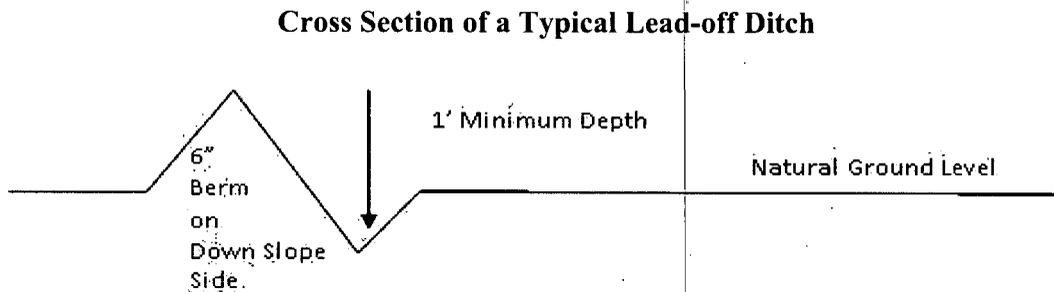
Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

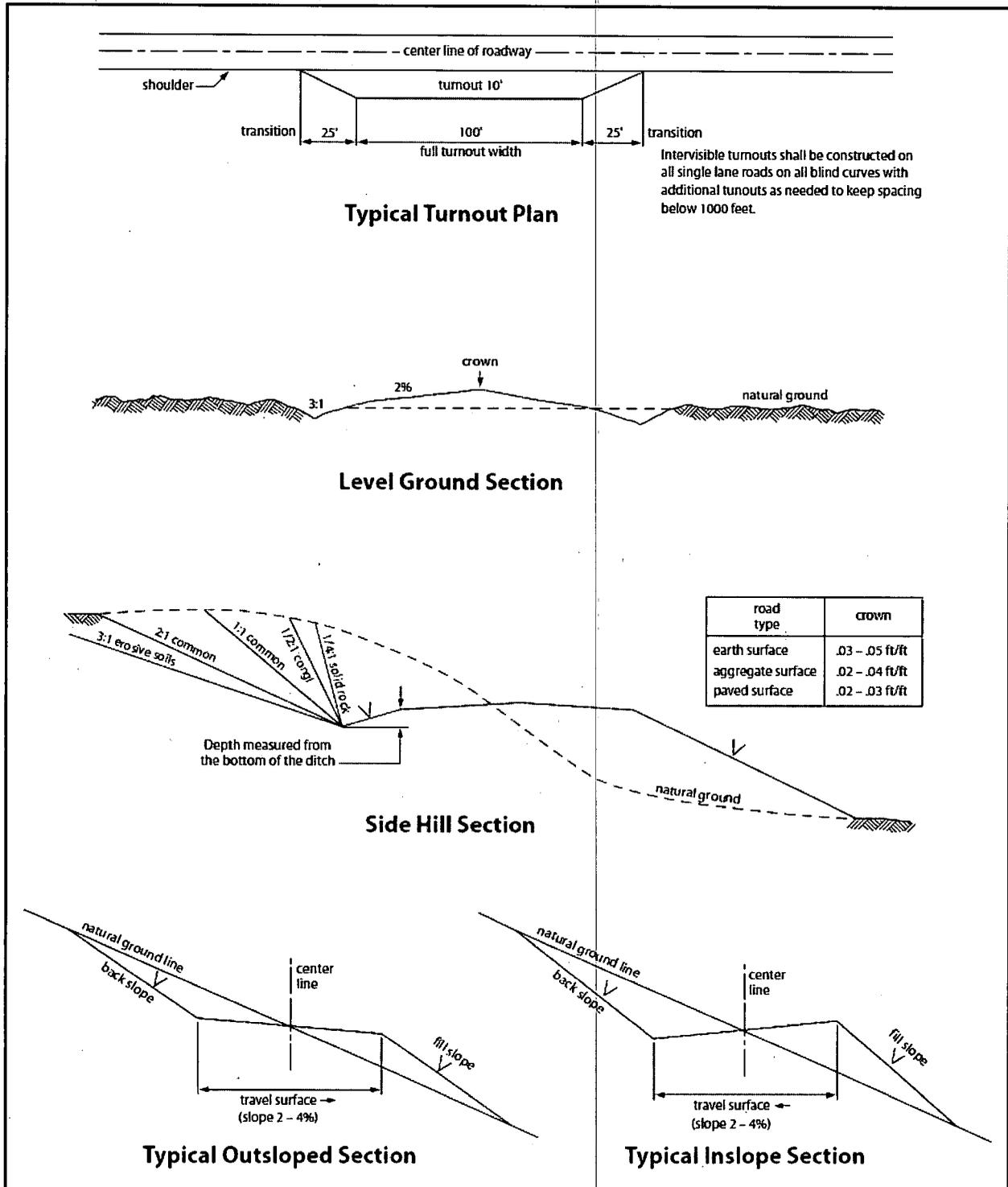


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 *et seq.* (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will

be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42

U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information

thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 *et seq.* (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to

the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrent shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

12/31/2019

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Stephanie Rabadue

Title: Regulatory Coordinator

Street Address:

City:

State:

Phone: (432)620-6714

Email address: stephanie_rabadue@xtoenergy.com

Signed on: 05/25/2019

Zip:

Field Representative

Representative Name:

Street Address:

City:

State:

Phone:

Email address:

Zip:



APD ID: 10400042204

Submission Date: 10/07/2019

Highlighted data reflects the most recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400042204

Tie to previous NOS?

Submission Date: 10/07/2019

BLM Office: CARLSBAD

User: Stephanie Rabadue

Title: Regulatory Coordinator

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM120895

Lease Acres: 1280

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: XTO ENERGY INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: XTO ENERGY INCORPORATED

Operator Address: 2277 Springwoods Village Parkway

Zip: 77389

Operator PO Box:

Operator City: Spring

State: TX

Operator Phone: (432)620-6700

Operator Internet Address: Richard_redus@xtoenergy.com

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PIERCE
CROSSING BONE SPRING,
EAST

Pool Name:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: CHAIN Number: 4

Well Class: HORIZONTAL

BLUE

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: DELINEATION

Describe sub-type:

Distance to town:

Distance to nearest well: 35 FT

Distance to lease line: 365 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Chain_26_Fed_167H_C102_20190528064010.pdf

Well work start Date: 09/01/2019

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	365	FSL	523	FEL	25S	29E	23	Aliquot SESE	32.109159	-103.948262	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 120895	3088	0	0	
KOP Leg #1	365	FSL	523	FEL	25S	29E	23	Aliquot SESE	32.109159	-103.948262	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 120895	-2552	5640	5640	
PPP Leg #1-1	330	FNL	990	FEL	25S	29E	26	Aliquot NENE	32.10725	-103.949764	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 100554	-8251	11700	11339	

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT Leg #1	330	FSL	990	FEL	25S	29E	26	Aliquot SESE	32.094469	-103.949667	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 100554	-8251	16400	11339	
BHL Leg #1	200	FSL	990	FEL	25S	29E	26	Aliquot SESE	32.094112	-103.949665	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 100554	-8251	16467	11339	



APD ID: 10400042204

Submission Date: 10/07/2019

Highlighted data reflects the most recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
465073	PERMIAN	3088	0	0	OTHER : Quaternary	NONE	Y
465064	RUSTLER	2524	556	556	SILTSTONE	USEABLE WATER	N
465065	TOP SALT	2362	718	718	SALT	NONE	N
465066	BASE OF SALT	114	2966	2966	SALT	NONE	N
465062	DELAWARE	-103	3183	3183	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
465063	BONE SPRING	-3850	6930	6930	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
465061	BONE SPRING 1ST	-4793	7873	7873	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
465060	BONE SPRING 2ND	-5100	8180	8180	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
465076	BONE SPRING 3RD	-5912	8992	8992	SANDSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : Produced Water	N
465077	WOLFCAMP	-7071	10151	10151	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : produced water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11339

Equipment: Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M 3-Ram BOP.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi. Permanent Wellhead - GE RSH Multibowl System A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange Wellhead will be installed by manufacturer's representatives. Manufacturer will monitor welding process to ensure appropriate

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

temperature of seal. Operator will test the 9-5/8" casing per BLM Onshore Order 2 Wellhead Manufacturer representative will not be present for BOP test plug installation

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up, the BOP test will be limited to 10,000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

Chain_26_Fed_10MCM_20191007054610.pdf

BOP Diagram Attachment:

Chain_26_Fed_10MBOP_20191024074520.pdf

Pressure Rating (PSI): 2M

Rating Depth: 520

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 2M Hydril and a 13-5/8" minimum 2M Double Ram BOP.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up, the BOP test will be limited to 2,000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 2M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

Chain_26_Fed_2MCM_20191024074434.pdf

BOP Diagram Attachment:

Chain_26_Fed_2MBOP_20191024074458.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	24	18.625	NEW	API	N	0	520	0	520			520	J-55	87.5	BUTT	2.68	1.81	DRY	30.2 1	DRY	30.2 1
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	4150	0	4150			4150	HCL-80	68	BUTT	2.31	2.12	DRY	10.4 1	DRY	10.4 1
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	8991	0	8991			8991	HCL-80	40	BUTT	1.61	1.03	DRY	3.51	DRY	3.51

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated-casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
4	PRODUCTION	8.75	5.5	NEW	API	N	0	16368	0	11259			16368	P-110	17	BUTT	1.49	1.01	DRY	2.52	DRY	2.52

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Chain_26_Fed_167H_Csg_20191007054918.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Chain_26_Fed_167H_Csg_20191007054929.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Casing Attachments

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Chain_26_Fed_167H_Csg_20191007054938.pdf

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Chain_26_Fed_167H_Csg_20191007054947.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	520	290	1.87	12.8	542.3	100	EconoCem-HLTRRC	None
SURFACE	Tail				550	1.35	14.8	742.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		0	4150	2450	1.88	12.8	4606	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				850	1.35	14.8	1147.5	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead	4200	8991	4200	1130	1.87	12.8	2113.1	100	Halcem-C	2% CaCl

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail				390	1.35	14.8	526.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	4200	0	4200	2050	1.88	12.8	3854	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				470	1.33	14.8	625.1	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	1636 8	970	1.88	11.5	1823. 6	30	Halcem-C	2% CaCl
PRODUCTION	Tail				2350	1.33	13.2	3125. 5	30	VersaCem	None

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: A Pason or Totco will be used to detect changes in loss or gain of mud volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4150	8991	OTHER : FW / Cut Brine / Polymer	9.1	9.5							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	520	OTHER : FW/Native	8.4	8.8							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
520	4150	OTHER : Brine/Gel Sweeps	9.8	10.2							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
8991	1133 9	OTHER : FW / Cut Brine / Polymer / OBM	12.2	12.8							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

List of open and cased hole logs run in the well:

CBL,CNL,DS,GR,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7547

Anticipated Surface Pressure: 5052.42

Anticipated Bottom Hole Temperature(F): 170

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geohazards description:

The necessary mud products for weight addition and fluid loss control will be on location at all times. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Chain_26_Fed_H2S_Plan_20190525080701.pdf

Chain_26_Fed_H2S_Dia_Pad_4W_20191024074600.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Chain_26_Fed_167H_DD_20190528063936.pdf

Other proposed operations facets description:

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

Other proposed operations facets attachment:

Chain_26_Fed_GCPS_20190525080755.pdf

Chain_26_Fed_GCPN_20190525080746.pdf

Chain_26_Fed_MBS_20190527102220.pdf

Other Variance attachment:

Chain_26_Fed_FH_20190525080740.pdf



XTO Energy

**Eddy County, NM (NAD-27)
Chain-Blue Lightning 26 Fed
#167H**

Wellbore #1

Plan: PERMIT

Standard Planning Report

09 May, 2019



Project: Eddy County, NM (NAD-27)
 Site: Chain-Blue Lightning 26 Fed
 Well: #167H
 Wellbore: Wellbore #1
 Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: #167H

Rig Name:
 GL @ 3088.00usft
 Ground Level: 3088.00

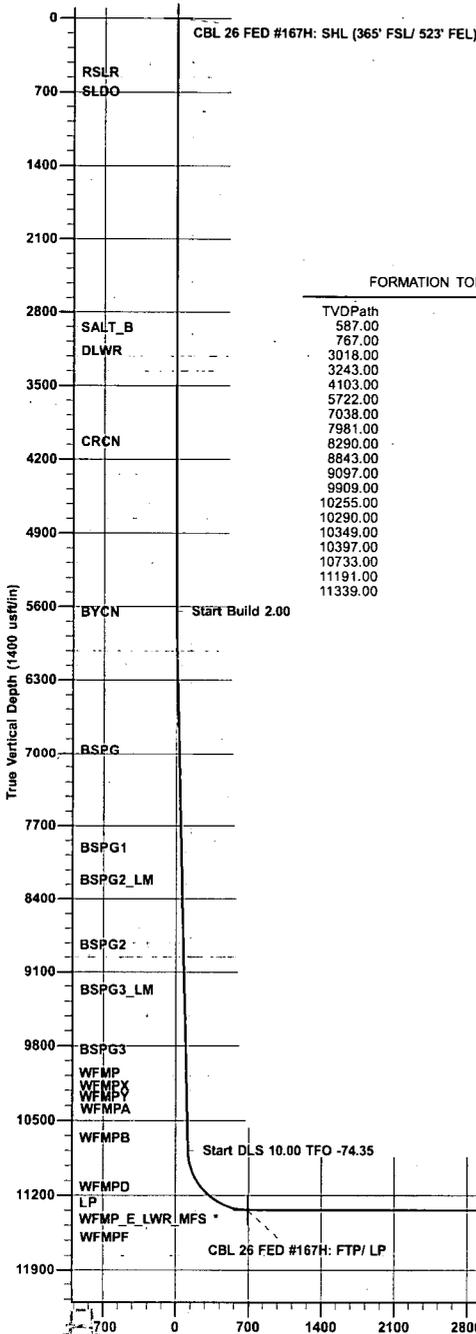
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	403603.50	619378.90	32.1090353	-103.9477778

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
CBL 26 FED #167H: SHL (365' FSL/ 523' FEL)	0.00	0.00	0.00	403603.50	619378.90	32.1090353	-103.9477778	Point
CBL 26 FED #167H: FTP/ LP	11339.00	-696.30	-462.60	402907.20	618916.30	32.1071258	-103.9492799	Point
CBL 26 FED #167H: LTP	11339.00	-5345.60	-416.10	398257.90	618962.80	32.0943444	-103.9491832	Point
CBL 26 FED #167H: PBHL (200' FSL/ 990' FEL)	11339.00	-5475.60	-414.80	398127.90	618964.10	32.0939871	-103.9491805	Point

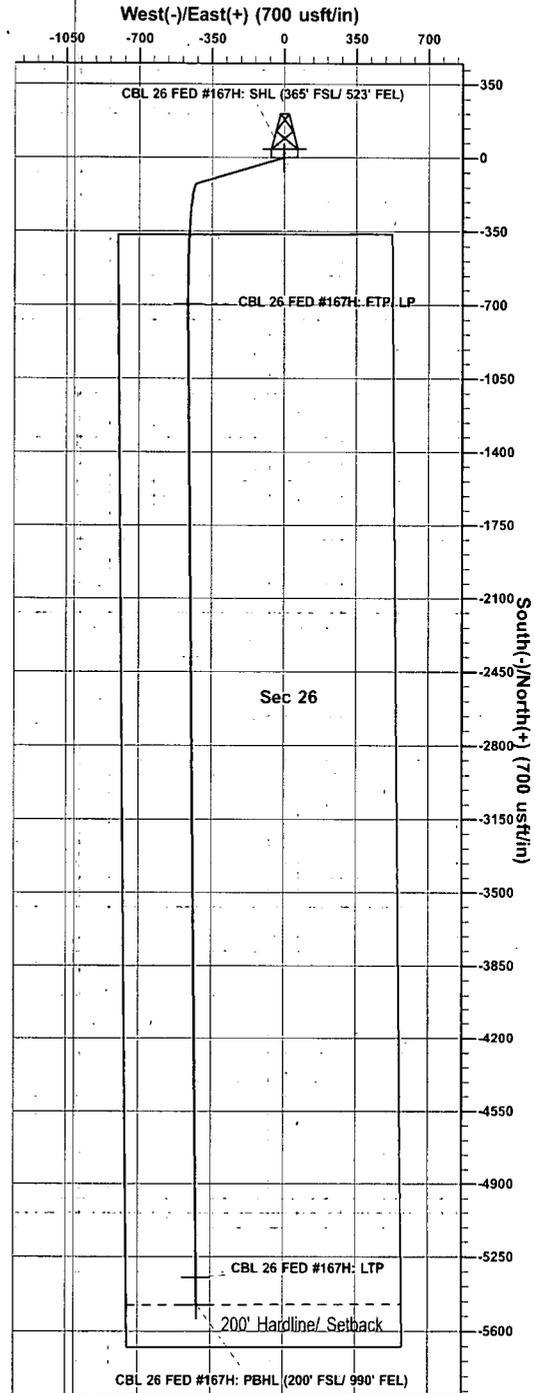
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSEct
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5640.00	0.00	0.00	5640.00	0.00	0.00	0.00	0.00	0.00
3	5890.05	5.00	253.72	5889.73	-3.06	-10.47	2.00	253.72	2.95
4	10800.55	5.00	253.72	10781.54	-123.06	-421.37	0.00	0.00	118.86
5	11687.03	90.00	179.43	11339.00	-596.30	-462.60	10.00	-74.35	591.66
6	16336.56	90.00	179.43	11339.00	-5345.60	-416.10	0.00	0.00	5341.20
7	16466.57	90.00	179.43	11339.00	-5475.60	-414.80	0.00	0.00	5471.20



FORMATION TOP DETAILS

TVDPPath	Formation
587.00	RSLR
767.00	SLDO
3018.00	SALT_B
3243.00	DLWR
4103.00	CRCN
5722.00	BYCN
7038.00	BSPG
7981.00	BSPG1
8290.00	BSPG2_LM
8843.00	BSPG2
9097.00	BSPG3_LM
9909.00	BSPG3
10255.00	WFMP
10290.00	WFMPX
10349.00	WFMPY
10397.00	WFMPA
10733.00	WFMPB
11191.00	WFMPD
11339.00	LP



Vertical Section at 179.43° (1400 usft/in)
 The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the user.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name					
⁴ Property Code		⁵ Property Name CHAIN-BLUE LIGHTNING 26 FED			⁶ Well Number 167H				
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			⁹ Elevation 3,088'				
¹⁰ Surface Location									
UL or lot no. P	Section 23	Township 25 S	Range 29 E	Lot Idn	Feet from the 365	North/South line SOUTH	Feet from the 523	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. P	Section 26	Township 25 S	Range 29 E	Lot Idn	Feet from the 200	North/South line SOUTH	Feet from the 990	East/West line EAST	County EDDY
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16

SEC. 23 SEC. 24

GRID AZ. = 213°36'05"
HORIZ. DIST. = 835.95'

330' 365' S.H.L.

523'

A B

F.T.P.

990'

330'

SEC. 26 SEC. 25

T25S
R29E

C D

GRID AZ. = 179°25'32"
HORIZ. DIST. = 4,779.63'

E F

L.T.P.

990' 990'

B.H.L.

330' 200'

SEC. 35 SEC. 36

E F

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

18 SURVEYOR CERTIFICATION

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

4-22-2019
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number JC 2018020638

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y = 403,603.5
X = 619,378.9
LAT. = 32.109035°N
LONG. = 103.947778°W

FIRST TAKE POINT
NAD 27 NME
Y = 402,907.2
X = 618,916.3
LAT. = 32.107126°N
LONG. = 103.949280°W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y = 403,661.6
X = 660,563.7
LAT. = 32.109159°N
LONG. = 103.948262°W

FIRST TAKE POINT
NAD 83 NME
Y = 402,965.3
X = 660,101.1
LAT. = 32.107250°N
LONG. = 103.949764°W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y = 403,236.5 N, X = 618,578.8 E
B - Y = 403,239.3 N, X = 619,902.9 E
C - Y = 400,581.8 N, X = 618,603.9 E
D - Y = 400,585.1 N, X = 619,929.8 E
E - Y = 397,926.8 N, X = 618,628.7 E
F - Y = 397,930.8 N, X = 619,958.0 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y = 403,294.6 N, X = 659,763.6 E
B - Y = 403,297.4 N, X = 661,087.7 E
C - Y = 400,639.9 N, X = 659,788.8 E
D - Y = 400,643.2 N, X = 661,114.7 E
E - Y = 397,984.9 N, X = 659,813.6 E
F - Y = 397,988.8 N, X = 661,141.0 E

LAST TAKE POINT
NAD 27 NME
Y = 398,257.9
X = 618,962.8
LAT. = 32.094344°N
LONG. = 103.949183°W

LAST TAKE POINT
NAD 83 NME
Y = 398,315.9
X = 660,147.7
LAT. = 32.094469°N
LONG. = 103.949667°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y = 398,127.9
X = 618,964.1
LAT. = 32.093887°N
LONG. = 103.949181°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y = 398,185.9
X = 660,149.0
LAT. = 32.094112°N
LONG. = 103.949665°W



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate	Reference:	Well #167H
Company:	XTO Energy	TVD Reference:		GL @ 3088.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:		GL @ 3088.00usft
Site:	Chain-Blue Lightning 26 Fed	North Reference:		Grid
Well:	#167H	Survey Calculation Method:		Minimum Curvature
Wellbore:	Wellbore #1			
Design:	PERMIT			

Project	Eddy County, NM (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Chain-Blue Lightning 26 Fed		
Site Position:	Map	Northing:	403,525.10 usft
From:		Easting:	615,559.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32.1088568
		Longitude:	-103.9601155
		Grid Convergence:	0.20 °

Well	#167H					
Well Position	+N/-S	78.40 usft	Northing:	403,603.50 usft	Latitude:	32.1090354
	+E/-W	3,819.90 usft	Easting:	619,378.90 usft	Longitude:	-103.9477778
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,088.00 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/09/19	6.92	59.87	47,639

Design	PERMIT		
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Audit Notes:				Tie On Depth:	0.00
Version:	Phase:	PLAN			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.43	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,640.00	0.00	0.00	5,640.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,890.05	5.00	253.72	5,889.73	-3.06	-10.47	2.00	2.00	0.00	253.72	
10,800.55	5.00	253.72	10,781.54	-123.06	-421.37	0.00	0.00	0.00	0.00	
11,687.03	90.00	179.43	11,339.00	-696.30	-462.60	10.00	9.59	-8.38	-74.35	CBL 26 FED #167H
16,336.56	90.00	179.43	11,339.00	-5,345.60	-416.10	0.00	0.00	0.00	0.00	CBL 26 FED #167H
16,466.57	90.00	179.43	11,339.00	-5,475.60	-414.80	0.00	0.00	0.00	0.00	CBL 26 FED #167H



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #167H
Company:	XTO Energy	TVD Reference:	GL @ 3088.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	GL @ 3088.00usft
Site:	Chain-Blue Lightning 26 Fed	North Reference:	Grid
Well:	#167H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey						Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
587.00	0.00	0.00	587.00	0.00	0.00	0.00	0.00	0.00	0.00
RSLR									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
767.00	0.00	0.00	767.00	0.00	0.00	0.00	0.00	0.00	0.00
SLDO									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,018.00	0.00	0.00	3,018.00	0.00	0.00	0.00	0.00	0.00	0.00
SALT_B									
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,243.00	0.00	0.00	3,243.00	0.00	0.00	0.00	0.00	0.00	0.00
DLWR									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,103.00	0.00	0.00	4,103.00	0.00	0.00	0.00	0.00	0.00	0.00
CRCN									
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate	Reference:	Well #167H
Company:	XTO Energy	TVD Reference:		GL @ 3088.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:		GL @ 3088.00usft
Site:	Chain-Blue Lightning 26 Fed	North Reference:		Grid
Well:	#167H	Survey Calculation Method:		Minimum Curvature
Wellbore:	Wellbore #1			
Design:	PERMIT			

Planned Survey						Vertical Section	Dogleg Rate	Build Rate	Turn Rate
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,640.00	0.00	0.00	5,640.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	1.20	253.72	5,700.00	-0.18	-0.60	0.17	2.00	2.00	0.00
5,722.01	1.64	253.72	5,722.00	-0.33	-1.13	0.32	2.00	2.00	0.00
BYCN									
5,800.00	3.20	253.72	5,799.92	-1.25	-4.29	1.21	2.00	2.00	0.00
5,890.05	5.00	253.72	5,889.73	-3.06	-10.47	2.95	2.00	2.00	0.00
5,900.00	5.00	253.72	5,899.64	-3.30	-11.30	3.19	0.00	0.00	0.00
6,000.00	5.00	253.72	5,999.26	-5.74	-19.67	5.55	0.00	0.00	0.00
6,100.00	5.00	253.72	6,098.88	-8.19	-28.04	7.91	0.00	0.00	0.00
6,200.00	5.00	253.72	6,198.50	-10.63	-36.40	10.27	0.00	0.00	0.00
6,300.00	5.00	253.72	6,298.12	-13.08	-44.77	12.63	0.00	0.00	0.00
6,400.00	5.00	253.72	6,397.74	-15.52	-53.14	14.99	0.00	0.00	0.00
6,500.00	5.00	253.72	6,497.36	-17.96	-61.51	17.35	0.00	0.00	0.00
6,600.00	5.00	253.72	6,596.98	-20.41	-69.88	19.71	0.00	0.00	0.00
6,700.00	5.00	253.72	6,696.60	-22.85	-78.24	22.07	0.00	0.00	0.00
6,800.00	5.00	253.72	6,796.22	-25.29	-86.61	24.43	0.00	0.00	0.00
6,900.00	5.00	253.72	6,895.84	-27.74	-94.98	26.79	0.00	0.00	0.00
7,000.00	5.00	253.72	6,995.46	-30.18	-103.35	29.15	0.00	0.00	0.00
7,042.71	5.00	253.72	7,038.00	-31.23	-106.92	30.16	0.00	0.00	0.00
BSPG									
7,100.00	5.00	253.72	7,095.08	-32.63	-111.72	31.51	0.00	0.00	0.00
7,200.00	5.00	253.72	7,194.70	-35.07	-120.08	33.87	0.00	0.00	0.00
7,300.00	5.00	253.72	7,294.32	-37.51	-128.45	36.23	0.00	0.00	0.00
7,400.00	5.00	253.72	7,393.93	-39.96	-136.82	38.59	0.00	0.00	0.00
7,500.00	5.00	253.72	7,493.55	-42.40	-145.19	40.96	0.00	0.00	0.00
7,600.00	5.00	253.72	7,593.17	-44.85	-153.55	43.32	0.00	0.00	0.00
7,700.00	5.00	253.72	7,692.79	-47.29	-161.92	45.68	0.00	0.00	0.00
7,800.00	5.00	253.72	7,792.41	-49.73	-170.29	48.04	0.00	0.00	0.00
7,900.00	5.00	253.72	7,892.03	-52.18	-178.66	50.40	0.00	0.00	0.00
7,989.31	5.00	253.72	7,981.00	-54.36	-186.13	52.50	0.00	0.00	0.00
BSPG1									
8,000.00	5.00	253.72	7,991.65	-54.62	-187.03	52.76	0.00	0.00	0.00
8,100.00	5.00	253.72	8,091.27	-57.06	-195.39	55.12	0.00	0.00	0.00
8,200.00	5.00	253.72	8,190.89	-59.51	-203.76	57.48	0.00	0.00	0.00
8,299.49	5.00	253.72	8,290.00	-61.94	-212.09	59.83	0.00	0.00	0.00
BSPG2 LM									
8,300.00	5.00	253.72	8,290.51	-61.95	-212.13	59.84	0.00	0.00	0.00
8,400.00	5.00	253.72	8,390.13	-64.40	-220.50	62.20	0.00	0.00	0.00
8,500.00	5.00	253.72	8,489.75	-66.84	-228.86	64.56	0.00	0.00	0.00
8,600.00	5.00	253.72	8,589.37	-69.28	-237.23	66.92	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate	Reference:	Well #167H
Company:	XTO Energy	TVD Reference:		GL @ 3088.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:		GL @ 3088.00usft
Site:	Chain-Blue Lightning 26 Fed	North Reference:		Grid
Well:	#167H	Survey Calculation Method:		Minimum Curvature
Wellbore:	Wellbore #1			
Design:	PERMIT			

Planned Survey						Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)				
8,700.00	5.00	253.72	8,688.99	-71.73	-245.60	69.28	0.00	0.00	0.00
8,800.00	5.00	253.72	8,788.60	-74.17	-253.97	71.64	0.00	0.00	0.00
8,854.60	5.00	253.72	8,843.00	-75.51	-258.54	72.93	0.00	0.00	0.00
BSPG2									
8,900.00	5.00	253.72	8,888.22	-76.61	-262.34	74.00	0.00	0.00	0.00
9,000.00	5.00	253.72	8,987.84	-79.06	-270.70	76.36	0.00	0.00	0.00
9,100.00	5.00	253.72	9,087.46	-81.50	-279.07	78.72	0.00	0.00	0.00
9,109.57	5.00	253.72	9,097.00	-81.74	-279.87	78.95	0.00	0.00	0.00
BSPG3_LM									
9,200.00	5.00	253.72	9,187.08	-83.95	-287.44	81.08	0.00	0.00	0.00
9,300.00	5.00	253.72	9,286.70	-86.39	-295.81	83.44	0.00	0.00	0.00
9,400.00	5.00	253.72	9,386.32	-88.83	-304.18	85.80	0.00	0.00	0.00
9,500.00	5.00	253.72	9,485.94	-91.28	-312.54	88.16	0.00	0.00	0.00
9,600.00	5.00	253.72	9,585.56	-93.72	-320.91	90.52	0.00	0.00	0.00
9,700.00	5.00	253.72	9,685.18	-96.17	-329.28	92.88	0.00	0.00	0.00
9,800.00	5.00	253.72	9,784.80	-98.61	-337.65	95.25	0.00	0.00	0.00
9,900.00	5.00	253.72	9,884.42	-101.05	-346.01	97.61	0.00	0.00	0.00
9,924.68	5.00	253.72	9,909.00	-101.66	-348.08	98.19	0.00	0.00	0.00
BSPG3									
10,000.00	5.00	253.72	9,984.04	-103.50	-354.38	99.97	0.00	0.00	0.00
10,100.00	5.00	253.72	10,083.66	-105.94	-362.75	102.33	0.00	0.00	0.00
10,200.00	5.00	253.72	10,183.28	-108.38	-371.12	104.69	0.00	0.00	0.00
10,272.00	5.00	253.72	10,255.00	-110.14	-377.14	106.39	0.00	0.00	0.00
WFMP									
10,300.00	5.00	253.72	10,282.89	-110.83	-379.49	107.05	0.00	0.00	0.00
10,307.13	5.00	253.72	10,290.00	-111.00	-380.08	107.22	0.00	0.00	0.00
WFMPX									
10,366.36	5.00	253.72	10,349.00	-112.45	-385.04	108.61	0.00	0.00	0.00
WFMPY									
10,400.00	5.00	253.72	10,382.51	-113.27	-387.85	109.41	0.00	0.00	0.00
10,414.54	5.00	253.72	10,397.00	-113.63	-389.07	109.75	0.00	0.00	0.00
WFMPA									
10,500.00	5.00	253.72	10,482.13	-115.72	-396.22	111.77	0.00	0.00	0.00
10,600.00	5.00	253.72	10,581.75	-118.16	-404.59	114.13	0.00	0.00	0.00
10,700.00	5.00	253.72	10,681.37	-120.60	-412.96	116.49	0.00	0.00	0.00
10,751.83	5.00	253.72	10,733.00	-121.87	-417.29	117.71	0.00	0.00	0.00
WFMPB									
10,800.55	5.00	253.72	10,781.54	-123.06	-421.37	118.86	0.00	0.00	0.00
10,850.00	7.92	216.69	10,830.69	-126.40	-425.48	122.16	10.00	5.91	-74.89
10,900.00	12.27	202.22	10,879.91	-134.09	-429.55	129.81	10.00	8.69	-28.93
10,950.00	16.98	195.45	10,928.28	-146.05	-433.50	141.73	10.00	9.41	-13.54
11,000.00	21.81	191.58	10,975.43	-162.19	-437.31	157.83	10.00	9.67	-7.73
11,050.00	26.70	189.07	11,021.01	-182.40	-440.95	178.00	10.00	9.79	-5.02
11,100.00	31.63	187.29	11,064.65	-206.51	-444.39	202.08	10.00	9.85	-3.56
11,150.00	36.57	185.95	11,106.04	-234.35	-447.60	229.88	10.00	9.89	-2.68
11,200.00	41.53	184.89	11,144.86	-265.70	-450.55	261.20	10.00	9.91	-2.12
11,250.00	46.49	184.01	11,180.81	-300.32	-453.23	295.80	10.00	9.93	-1.74
11,265.00	47.98	183.78	11,191.00	-311.31	-453.98	306.78	10.00	9.93	-1.56
WFMPD									
11,300.00	51.46	183.27	11,213.62	-337.95	-455.62	333.40	10.00	9.94	-1.44
11,350.00	56.43	182.63	11,243.04	-378.31	-457.70	373.74	10.00	9.95	-1.29
11,400.00	61.41	182.06	11,268.85	-421.08	-459.44	416.49	10.00	9.95	-1.15
11,450.00	66.39	181.54	11,290.84	-465.95	-460.85	461.34	10.00	9.96	-1.04



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate	Reference:	Well #167H
Company:	XTO Energy	TVD Reference:		GL @ 3088.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:		GL @ 3088.00usft
Site:	Chain-Blue Lightning 26 Fed	North Reference:		Grid
Well:	#167H	Survey Calculation	Method:	Minimum Curvature
Wellbore:	Wellbore #1			
Design:	PERMIT			

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,500.00	71.37	181.05	11,308.85	-512.56	-461.90	507.94	10.00	9.96	-0.97
11,550.00	76.35	180.60	11,322.75	-560.57	-462.59	555.94	10.00	9.96	-0.91
11,600.00	81.33	180.16	11,332.43	-609.61	-462.91	604.97	10.00	9.96	-0.87
11,650.00	86.31	179.74	11,337.81	-659.30	-462.87	654.66	10.00	9.96	-0.85
11,687.03	90.00	179.43	11,339.00	-696.30	-462.60	691.66	10.00	9.96	-0.84
LP									
11,700.00	90.00	179.43	11,339.00	-709.27	-462.47	704.64	0.00	0.00	0.00
11,800.00	90.00	179.43	11,339.00	-809.27	-461.47	804.64	0.00	0.00	0.00
11,900.00	90.00	179.43	11,339.00	-909.26	-460.47	904.64	0.00	0.00	0.00
12,000.00	90.00	179.43	11,339.00	-1,009.26	-459.47	1,004.64	0.00	0.00	0.00
12,100.00	90.00	179.43	11,339.00	-1,109.25	-458.47	1,104.64	0.00	0.00	0.00
12,200.00	90.00	179.43	11,339.00	-1,209.25	-457.47	1,204.64	0.00	0.00	0.00
12,300.00	90.00	179.43	11,339.00	-1,309.24	-456.47	1,304.64	0.00	0.00	0.00
12,400.00	90.00	179.43	11,339.00	-1,409.24	-455.47	1,404.64	0.00	0.00	0.00
12,500.00	90.00	179.43	11,339.00	-1,509.23	-454.47	1,504.64	0.00	0.00	0.00
12,600.00	90.00	179.43	11,339.00	-1,609.23	-453.47	1,604.64	0.00	0.00	0.00
12,700.00	90.00	179.43	11,339.00	-1,709.22	-452.47	1,704.64	0.00	0.00	0.00
12,800.00	90.00	179.43	11,339.00	-1,809.22	-451.47	1,804.64	0.00	0.00	0.00
12,900.00	90.00	179.43	11,339.00	-1,909.21	-450.47	1,904.64	0.00	0.00	0.00
13,000.00	90.00	179.43	11,339.00	-2,009.21	-449.47	2,004.64	0.00	0.00	0.00
13,100.00	90.00	179.43	11,339.00	-2,109.20	-448.47	2,104.64	0.00	0.00	0.00
13,200.00	90.00	179.43	11,339.00	-2,209.20	-447.47	2,204.64	0.00	0.00	0.00
13,300.00	90.00	179.43	11,339.00	-2,309.19	-446.47	2,304.64	0.00	0.00	0.00
13,400.00	90.00	179.43	11,339.00	-2,409.19	-445.47	2,404.64	0.00	0.00	0.00
13,500.00	90.00	179.43	11,339.00	-2,509.18	-444.47	2,504.64	0.00	0.00	0.00
13,600.00	90.00	179.43	11,339.00	-2,609.18	-443.47	2,604.64	0.00	0.00	0.00
13,700.00	90.00	179.43	11,339.00	-2,709.17	-442.47	2,704.64	0.00	0.00	0.00
13,800.00	90.00	179.43	11,339.00	-2,809.17	-441.47	2,804.64	0.00	0.00	0.00
13,900.00	90.00	179.43	11,339.00	-2,909.16	-440.47	2,904.64	0.00	0.00	0.00
14,000.00	90.00	179.43	11,339.00	-3,009.16	-439.47	3,004.64	0.00	0.00	0.00
14,100.00	90.00	179.43	11,339.00	-3,109.15	-438.47	3,104.64	0.00	0.00	0.00
14,200.00	90.00	179.43	11,339.00	-3,209.15	-437.47	3,204.64	0.00	0.00	0.00
14,300.00	90.00	179.43	11,339.00	-3,309.14	-436.47	3,304.64	0.00	0.00	0.00
14,400.00	90.00	179.43	11,339.00	-3,409.14	-435.47	3,404.64	0.00	0.00	0.00
14,500.00	90.00	179.43	11,339.00	-3,509.13	-434.47	3,504.64	0.00	0.00	0.00
14,600.00	90.00	179.43	11,339.00	-3,609.13	-433.47	3,604.64	0.00	0.00	0.00
14,700.00	90.00	179.43	11,339.00	-3,709.12	-432.47	3,704.64	0.00	0.00	0.00
14,800.00	90.00	179.43	11,339.00	-3,809.12	-431.47	3,804.64	0.00	0.00	0.00
14,900.00	90.00	179.43	11,339.00	-3,909.11	-430.47	3,904.64	0.00	0.00	0.00
15,000.00	90.00	179.43	11,339.00	-4,009.11	-429.47	4,004.64	0.00	0.00	0.00
15,100.00	90.00	179.43	11,339.00	-4,109.10	-428.47	4,104.64	0.00	0.00	0.00
15,200.00	90.00	179.43	11,339.00	-4,209.10	-427.47	4,204.64	0.00	0.00	0.00
15,300.00	90.00	179.43	11,339.00	-4,309.09	-426.47	4,304.64	0.00	0.00	0.00
15,400.00	90.00	179.43	11,339.00	-4,409.09	-425.47	4,404.64	0.00	0.00	0.00
15,500.00	90.00	179.43	11,339.00	-4,509.08	-424.47	4,504.64	0.00	0.00	0.00
15,600.00	90.00	179.43	11,339.00	-4,609.08	-423.47	4,604.64	0.00	0.00	0.00
15,700.00	90.00	179.43	11,339.00	-4,709.07	-422.47	4,704.64	0.00	0.00	0.00
15,800.00	90.00	179.43	11,339.00	-4,809.07	-421.47	4,804.64	0.00	0.00	0.00
15,900.00	90.00	179.43	11,339.00	-4,909.06	-420.47	4,904.64	0.00	0.00	0.00
16,000.00	90.00	179.43	11,339.00	-5,009.06	-419.47	5,004.64	0.00	0.00	0.00
16,100.00	90.00	179.43	11,339.00	-5,109.05	-418.47	5,104.64	0.00	0.00	0.00
16,200.00	90.00	179.43	11,339.00	-5,209.05	-417.47	5,204.64	0.00	0.00	0.00
16,300.00	90.00	179.43	11,339.00	-5,309.04	-416.47	5,304.64	0.00	0.00	0.00
16,336.56	90.00	179.43	11,339.00	-5,345.60	-416.10	5,341.20	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate	Reference:	Well #167H
Company:	XTO Energy	TVD Reference:		GL @ 3088.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:		GL @ 3088.00usft
Site:	Chain-Blue Lightning 26 Fed	North Reference:		Grid
Well:	#167H	Survey Calculation	Method:	Minimum Curvature
Wellbore:	Wellbore #1			
Design:	PERMIT			

Planned Survey						Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)				
16,400.00	90.00	179.43	11,339.00	-5,409.04	-415.47	5,404.64	0.00	0.00	0.00
16,466.57	90.00	179.43	11,339.00	-5,475.60	-414.80	5,471.20	0.00	0.00	0.00

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
CBL 26 FED #167H: S - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	403,603.50	619,378.90	32.1090354	-103.9477778	
CBL 26 FED #167H: L - plan hits target center - Point	0.00	0.00	11,339.00	-5,345.60	-416.10	398,257.90	618,962.80	32.0943445	-103.9491832	
CBL 26 FED #167H: F - plan hits target center - Point	0.00	0.00	11,339.00	-696.30	-462.60	402,907.20	618,916.30	32.1071258	-103.9492798	
CBL 26 FED #167H: F - plan hits target center - Point	0.00	0.00	11,339.00	-5,475.60	-414.80	398,127.90	618,964.10	32.0939871	-103.9491805	

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
587.00	587.00	RSLR			
767.00	767.00	SLDO			
3,018.00	3,018.00	SALT_B			
3,243.00	3,243.00	DLWR			
4,103.00	4,103.00	CRCN			
5,722.01	5,722.00	BYCN			
7,042.71	7,038.00	BSPG			
7,989.31	7,981.00	BSPG1			
8,299.49	8,290.00	BSPG2_LM			
8,854.60	8,843.00	BSPG2			
9,109.57	9,097.00	BSPG3_LM			
9,924.68	9,909.00	BSPG3			
10,272.00	10,255.00	WFMP			
10,307.13	10,290.00	WFMPX			
10,366.36	10,349.00	WFMPY			
10,414.54	10,397.00	WFMPA			
10,751.83	10,733.00	WFMPB			
11,265.00	11,191.00	WFMPD			
11,687.03	11,339.00	LP			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 04/26/2019

Original Operator & OGRID No.: XTO Energy, Inc [005380]
 Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility: Chain-Blue CTBS

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Chain-Blue Lightning 26 Fed 108H		P-23-25S-29E	331'FSL & 273'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 703H		N-23-25S-29E	296'FSL & 2025'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 162H		M-23-25S-29E	366'FSL & 955'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 161H		M-23-25S-29E	366'FSL & 705'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 121H		M-23-25S-29E	331'FSL & 705'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 122H		M-23-25S-29E	331'FSL & 955'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 701H		M-23-25S-29E	296'FSL & 705'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 102H		M-23-25S-29E	296'FSL & 955'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 164H		N-23-25S-29E	366'FSL & 2275'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 163H		N-23-25S-29E	366'FSL & 2025'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 103H		N-23-25S-29E	331'FSL & 2025'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 104H		N-23-25S-29E	331'FSL & 2275'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 124H		N-23-25S-29E	296'FSL & 2275'FWL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Federal 166H		O-23-25S-29E	365'FSL & 2230'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 165H		O-23-25-S29E	365'FSL & 2480'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 125H		O-23-25S-29E	330'FSL & 2480'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 126H		O-23-25S-29E	330'FSL & 2230'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 105H		O-23-25S-29E	295'FSL & 2480'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 705H		O-23-25S-29E	295'FSL & 2230'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 168H		P-23-25S-29E	366'FSL & 273'FEL	2500MCF/D	Flared/Sold	

Chain-Blue Lightning 26 Fed 167H		P-23-25S-29E	365'FSL & 523'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 107H		P-23-25S-29E	330'FSL & 523'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 127H		P-23-25S-29E	295'FSL & 523'FEL	2500MCF/D	Flared/Sold	
Chain-Blue Lightning 26 Fed 708H		P-23-25S-29E	296'FSL & 273'FEL	2500MCF/D	Flared/Sold	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Enlink and will be connected to Enlink low/high pressure gathering system located in Loving County, Texas. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. XTO Energy, Inc. provides (periodically) to Enlink a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO Energy, Inc. and Enlink have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enlink Processing Plant located in Block 27, Section 4, Loving County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enlink system at that time. Based on current information, it is XTO Energy, Inc.'s belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

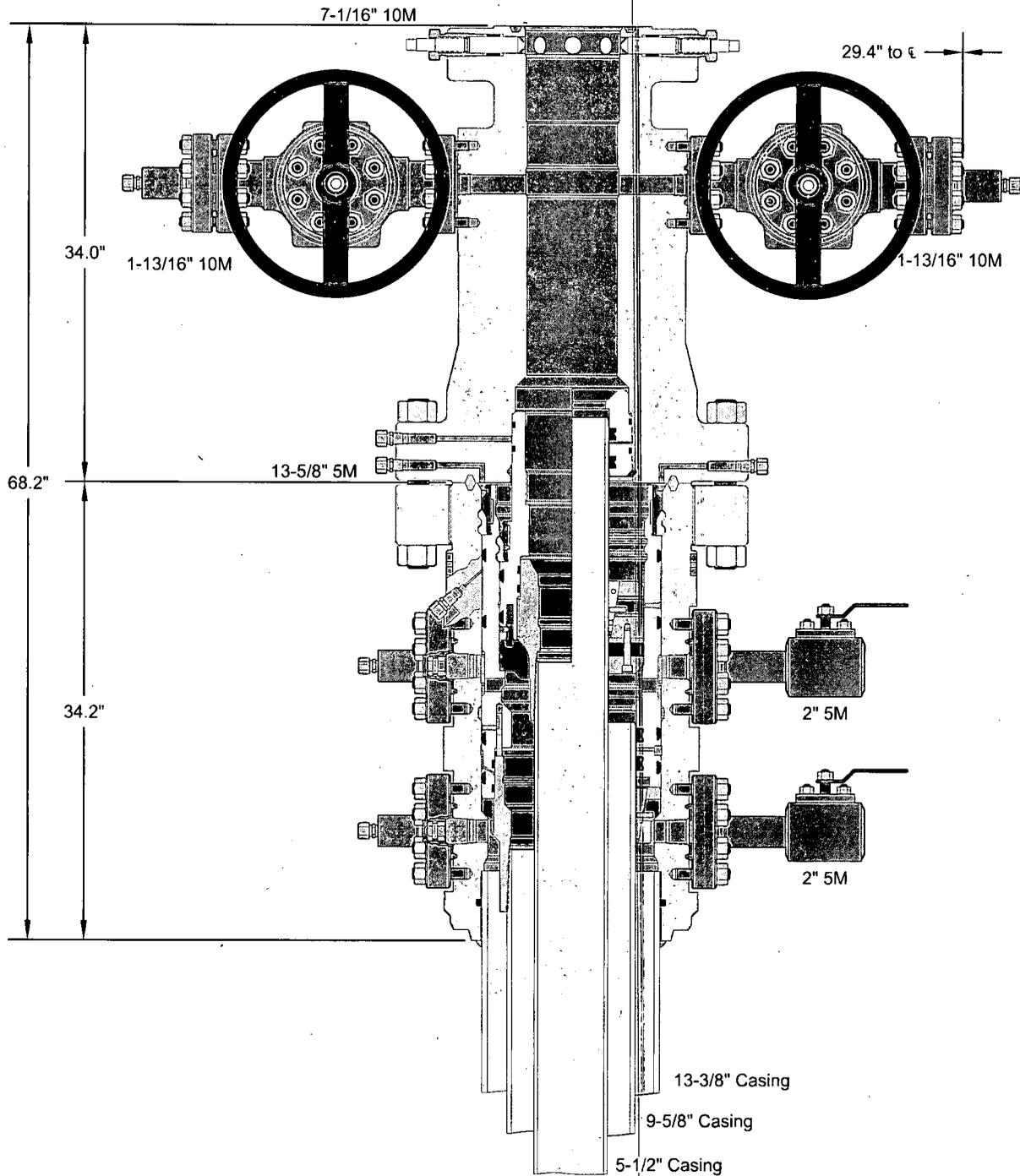
Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



GE Oil & Gas



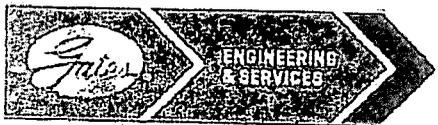
ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

XTO ENERGY, INC.

13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead Assembly, With T-EBS-F Tubing Head

DRAWN	VJK	16FEB17
APPRV	KN	16FEB17
FOR REFERENCE ONLY		
DRAWING NO.	10012842	



GATES E & S NORTH AMERICA, INC
 DU-TEX
 134 44TH STREET
 CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
 FAX: 361-887-0812
 EMAIL: crpe@s@gates.com
 WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer : AUSTIN DISTRIBUTING
 Customer Ref. : FENDING
 Invoice No. : 201709

Test Date: 6/8/2014
 Hose Serial No.: D-060814-1
 Created By: NORMA

Product Description: FD3.0+2.0R41/16.5KFLGE/E LE

End Fitting 1 : 4 1/16 in.5K FLG
 Gates Part No. : 4774-6001
 Working Pressure : 5,000 PSI

End Fitting 2 : 4 1/16 in.5K FLG
 Assembly Code : L33090011513D-060814-1
 Test Pressure : 7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality: QUALITY
 Date: 6/8/2014
 Signature: *[Handwritten Signature]*

Technical Supervisor : PRODUCTION
 Date : 6/8/2014
 Signature : *[Handwritten Signature]*

NOON

1

2

11

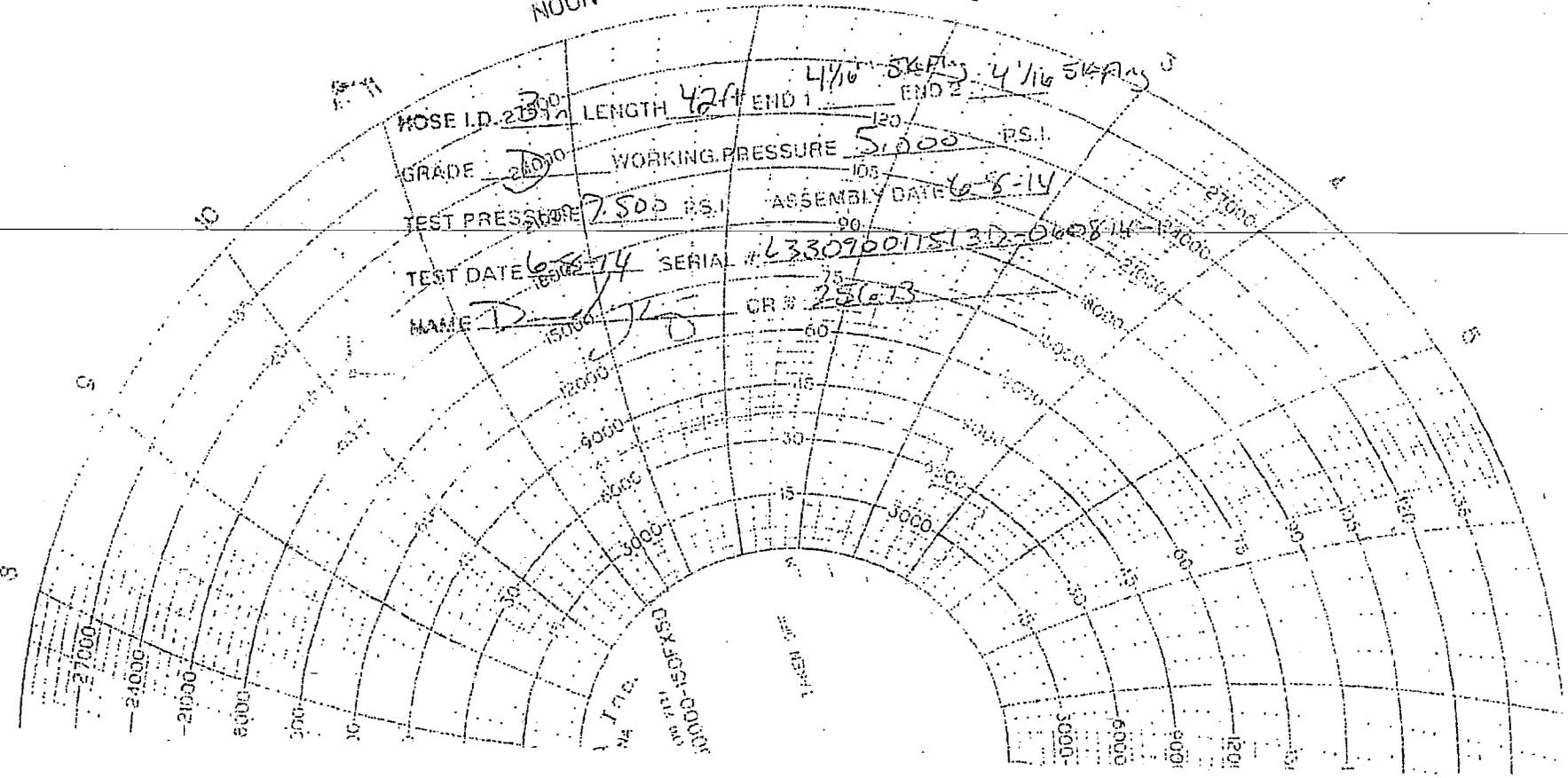
NOSE I.D. 2.3175 LENGTH 42ft END 1 4 1/16 SKF END 2 4 1/16 SKF

GRADE 26000 WORKING PRESSURE 5,000 PS.I

TEST PRESSURE 7,500 PS.I ASSEMBLY DATE 6-8-14

TEST DATE 6-8-14 SERIAL # 633096011513D-0608-14

NAME D. J. CR # 2563



AMERICAN SOCIETY OF MECHANICAL ENGINEERS

11/11/11



APD ID: 10400042204

Submission Date: 10/07/2019

Highlighted data
reflects the most
recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Chain_26_Fed_167H_Road_20190528063737.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Chain_26_Fed_Road_20190525074131.pdf

New road type: RESOURCE

Length: 5470.98 Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

New road access plan or profile prepared? NO

New road access plan attachment:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Access road engineering design? NO

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Surface material will be native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.

Access other construction information: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.

Access miscellaneous information: The Chain-Blue Lightning 26 Federal development area is accessed from the intersection of Pecos Highway (285) and Longhorn Road. Go Northeast on Longhorn Road approximately 4.2 miles. Turn left (Northeast) onto Pipeline Road Number 1 and go approximately 1.8 miles. Turn left (North) onto the lease road and go approximately 2.2 miles. Turn right (East) at the fork in the road and go approximately 1 mile. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, 'Topographical and Access Road Map.' There are existing access roads to the proposed Chain-Blue Lightning 26 Federal well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

Number of access turnouts: 0

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) description: No drainage control structures were identified at onsite. Drainage control structures will be applied for as-needed and be in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Chain_26_Fed_1_Mile_20190525074210.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production Facilities. Two CTB pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The Northern most facility is the Shanghai 26 Fed CTB [600'x600'] and is located in Section 26-T25S-R30E NMPM, Eddy County, New Mexico. The Southernmost facility is the Shanghai 24 Fed CTB [600'x550'] and is located in Section 23-T25S-R30E NMPM, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. Flowlines. In the event the wells are found productive, 24-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the Shanghai 26 Fed CTB & the Shanghai 24 Fed CTB where the oil, gas, and water will be metered and separated. If XTO Energy, Inc. decides to run surface lines, 24-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed CTBs. An additional 24-10" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 5,641.54' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease-road corridors. Gas & Oil Pipeline. A gas purchaser has been identified and will be building separately to the Shanghai CTBs in this application. Disposal Facilities. Produced water will be piped from location to a disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. Flare. There will be 2 flares associated with the Chain-Blue Lightning 26 Federal project. The flare stacks will be 50'x50' and located on the production facility locations with no additional surface disturbance. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas. Electrical. All lines will be primary 12,740 volt to properly run expected production equipment. 14,944.88' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Production Facilities map:

Chain_26_Fed_FL_20190525074235.pdf

Chain_26_Fed_CTBN_20190525074220.pdf

Chain_26_Fed_OHE_20190525074244.pdf

Chain_26_Fed_CTBS1_20191007055059.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Water source type: OTHER

Describe type: Fresh Water; Section 27-25S-30E

Water source use type: SURFACE CASING
STIMULATION
INTERMEDIATE/PRODUCTION
CASING

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 335000

Source volume (acre-feet): 43.179188

Source volume (gal): 14070000

Water source type: OTHER

Describe type: Fresh Water; Section 26-25S-29E

Water source use type: SURFACE CASING
STIMULATION
INTERMEDIATE/PRODUCTION
CASING

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 335000

Source volume (acre-feet): 43.179188

Source volume (gal): 14070000

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Water source and transportation map:

Chain_26_Fed_167H_Wtr_20190528063759.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from commercial water stations in the area and hauled to the location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: SB Oilfield Services 213 S. Mesa Carlsbad, NM 88220 Anticipated water usage for drilling includes an estimated 30,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with 40% excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Well completion is expected to require approximately 50,000 barrels of fresh water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections. After production is established, XTO may complete wells with approximately 50,000 barrels of produced water. If this decision is made, the BLM will be notified appropriately, proper permitting will ensue with the New Mexico Oil Conservation division and this surface use plan will be amended as needed.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche. Anticipated Caliche Locations: a. Pit 1: Federal

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Caliche Pit, Section 17-T25S-R30E b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel mud pits

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240 (575) 393-1079

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240 (575) 393-1079

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of human waste.

Waste type: GARBAGE

Waste content description: Garbage, junk and non-flammable waste materials

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: A licensed 3rd party vendor will be contracted to haul and safely dispose of garbage, junk and non-flammable waste materials.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Chain_26_Fed_167H_Well_20190528063818.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: CHAIN BLUE

Multiple Well Pad Number: 4

Recontouring attachment:

Chain_26_Fed_IR_Pad1_20190526083850.pdf

Chain_26_Fed_IR_Pad3_20190526083904.pdf

Chain_26_Fed_IR_Pad4_20190526083911.pdf

Chain_26_Fed_IR_Pad2_20190526083857.pdf

Drainage/Erosion control construction: All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres): 22.96

Well pad interim reclamation (acres): 7.68

Well pad long term disturbance (acres): 15.28

Road proposed disturbance (acres): 3.77

Road interim reclamation (acres): 0

Road long term disturbance (acres): 3.77

Powerline proposed disturbance (acres): 10.29

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 10.29

Pipeline proposed disturbance (acres): 0

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 20.41

Other interim reclamation (acres): 0

Other long term disturbance (acres): 20.41

Total interim reclamation: 7.68

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Total proposed disturbance: 57.43

Total long term disturbance: 49.75

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Existing Vegetation at the well pad: Environmental Setting. Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Environmental Setting. Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Environmental Setting. Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Environmental Setting. Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone: (432)620-4349

Email: jeffrey_raines@xtoenergy.com

Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.

Weed treatment plan attachment:

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.

Monitoring plan attachment:

Success standards: 100% compliance with applicable regulations.

Pit closure description: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: Electric

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: Central Tank Battery

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,288103 ROW – Salt Water Disposal Pipeline/Facility,288104 ROW – Salt Water Disposal ApIn/Fac-FLPMA,289001 ROW- O&G Well Pad,FLPMA (Powerline)

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Chain_26_Fed_List_20190525074827.pdf

Chain_26_Fed_SUPO1_20191007055120.pdf

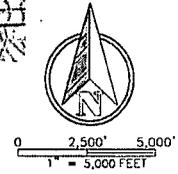
TOPOGRAPHICAL AND ACCESS ROAD MAP

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF PECOS HIGHWAY (285) AND LONGHORN RD. GO NORTHEAST ON LONGHORN RD APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE RD NUMBER 1 AND GO APPROX. 1.8 MILES. TURN LEFT (NORTH) ONTO THE LEASE RD AND GO APPROX. 2.2 MILES. TURN RIGHT (EAST) AT FORK IN THE ROAD AND GO APPROX. 1 MILE. TURN RIGHT (SOUTH) ON TO LEASE ROAD AND GO APPROX. 1.4 MILES ARRIVING AT THE PROPOSED ROAD AND LOCATION WILL BE TO THE NORTH.

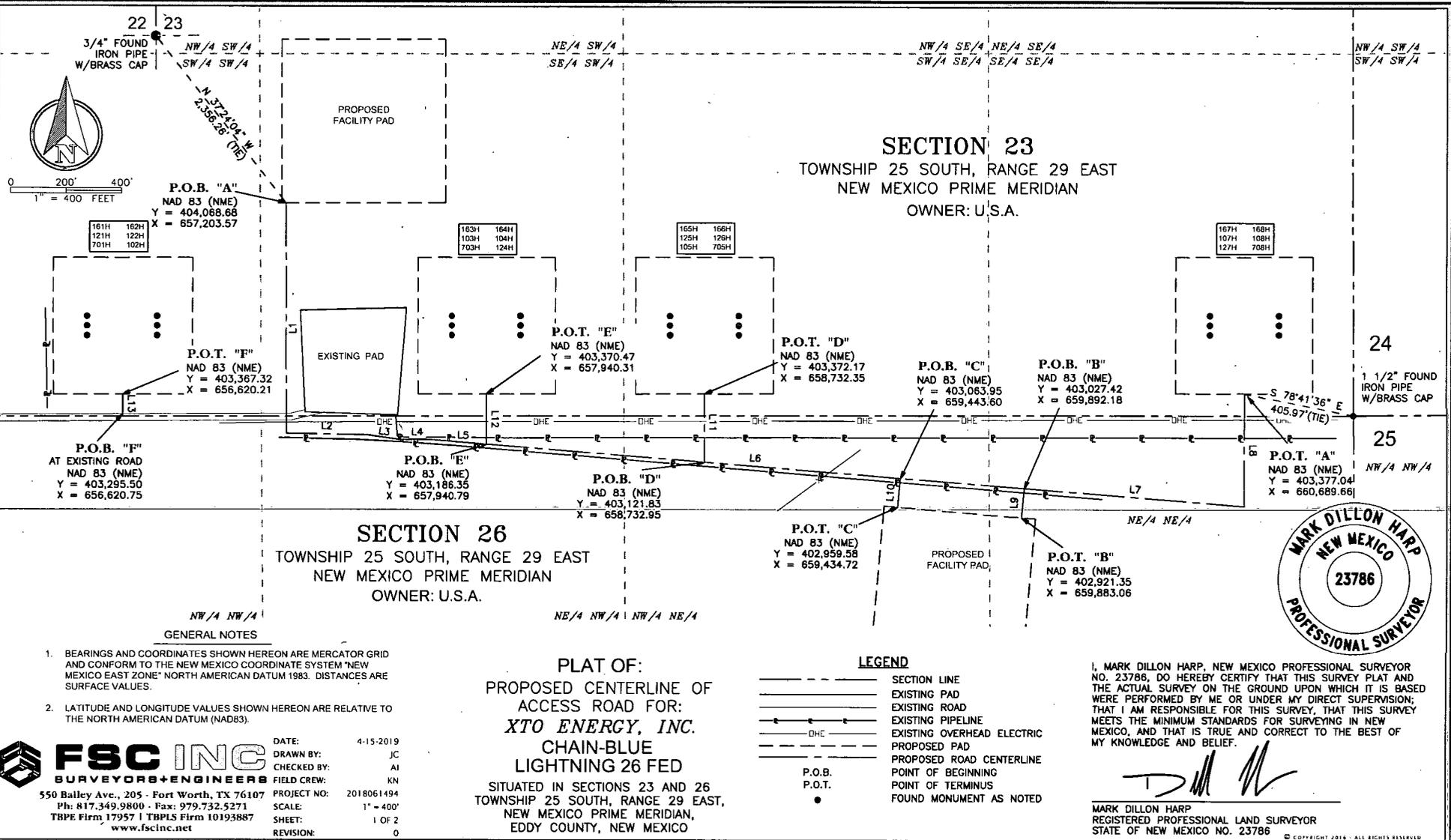


CHAIN-BLUE LIGHTNING 26 FED #167H
 LOCATED 365 FEET FROM THE SOUTH LINE
 AND 523 FEET FROM THE EAST LINE OF
 SECTION 23, TOWNSHIP 25 SOUTH, RANGE 29
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



550 Bailey Ave., 205 - Fort Worth, TX 76107
 Ph: 817.349.9800 - Fax: 979.732.5271
 TDEE Firm 17957 | TDEPLS Firm 10193847
 www.fscinc.net
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DATE:	04-10-2019	PROJECT NO:	2018020638
DRAWN BY:	AI	SCALE:	1" = 5,000'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE/RR	REVISION:	0



SECTION 23
 TOWNSHIP 25 SOUTH, RANGE 29 EAST
 NEW MEXICO PRIME MERIDIAN
 OWNER: U.S.A.

SECTION 26
 TOWNSHIP 25 SOUTH, RANGE 29 EAST
 NEW MEXICO PRIME MERIDIAN
 OWNER: U.S.A.

PLAT OF:
 PROPOSED CENTERLINE OF
 ACCESS ROAD FOR:
XTO ENERGY, INC.
 CHAIN-BLUE
 LIGHTNING 26 FED
 SITUATED IN SECTIONS 23 AND 26
 TOWNSHIP 25 SOUTH, RANGE 29 EAST,
 NEW MEXICO PRIME MERIDIAN,
 EDDY COUNTY, NEW MEXICO

- LEGEND**
- SECTION LINE
 - EXISTING PAD
 - EXISTING ROAD
 - EXISTING PIPELINE
 - DHE EXISTING OVERHEAD ELECTRIC
 - PROPOSED PAD
 - PROPOSED ROAD CENTERLINE
 - P.O.B. POINT OF BEGINNING
 - P.O.T. POINT OF TERMINUS
 - FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]
 MARK DILLON HARP
 REGISTERED PROFESSIONAL LAND SURVEYOR
 STATE OF NEW MEXICO NO. 23786



- GENERAL NOTES**
- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
 - LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

FSC INC
 SURVEYORS + ENGINEERS
 550 Bailey Ave., 205 - Fort Worth, TX 76107
 Ph: 817.349.9800 - Fax: 979.732.5271
 TBPE Firm, 17957 | TBPLS Firm 10193887
 www.fscinc.net

DATE: 4-15-2019
 DRAWN BY: JC
 CHECKED BY: AI
 FIELD CREW: KN
 PROJECT NO: 2018061494
 SCALE: 1" = 400'
 SHEET: 1 OF 2
 REVISION: 0

CHAIN-BLUE LIGHTNING 26 FED PROPOSED ACCESS ROAD DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 5,470.98 FEET, 331.57 RODS, OR 1.04 MILES IN LENGTH CROSSING SECTIONS 23 AND 26, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 3.73 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SW/4 SW/4 SECTION 23 = 71.82 FEET = 4.35 RODS = 0.05 OF AN ACRE
 SE/4 SW/4 SECTION 23 = 859.94 FEET = 52.11 RODS = 0.60 OF AN ACRE
 SW/4 SE/4 SECTION 23 = 79.86 FEET = 4.84 RODS = 0.05 OF AN ACRE
 SE/4 SE/4 SECTION 23 = 80.48 FEET = 4.88 RODS = 0.06 OF AN ACRE
 NE/4 NW/4 SECTION 26 = 1,404.09 FEET = 85.10 RODS = 0.96 OF AN ACRE
 NW/4 NE/4 SECTION 26 = 1,605.00 FEET = 97.27 RODS = 1.08 ACRES
 NE/4 NE/4 SECTION 26 = 1,369.79 FEET = 83.02 RODS = 0.93 OF AN ACRE

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 00°07'23" E	843.70'
L2	S 88°56'09" E	299.35'
L3	S 81°46'16" E	110.71'
L4	S 89°43'57" E	120.81'
L5	S 85°22'11" E	203.70'
L6	S 85°20'38" E	1,960.55'
L7	S 85°24'56" E	801.07'
L8	N 00°08'54" W	413.61'

LINE TABLE "B"

L9	S 04°54'53" W	106.46'
----	---------------	---------

LINE TABLE "B"

L10	S 04°51'47" W	104.75'
-----	---------------	---------

LINE TABLE "B"

L11	N 00°08'16" W	250.33'
-----	---------------	---------

LINE TABLE "B"

L12	N 00°08'57" W	184.12'
-----	---------------	---------

LINE TABLE "B"

L13	N 00°25'52" W	71.82'
-----	---------------	--------

TOTAL LENGTH = 5,470.98 FEET
 OR 331.57 RODS

PLAT OF:
 PROPOSED CENTERLINE OF
 ACCESS ROAD FOR:
XTO ENERGY, INC.
 CHAIN-BLUE
 LIGHTNING 26 FEDERAL

SITUATED IN SECTIONS 23 AND 26
 TOWNSHIP 25 SOUTH, RANGE 29 EAST,
 NEW MEXICO PRIME MERIDIAN,
 EDDY COUNTY, NEW MEXICO

GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

(Signature)

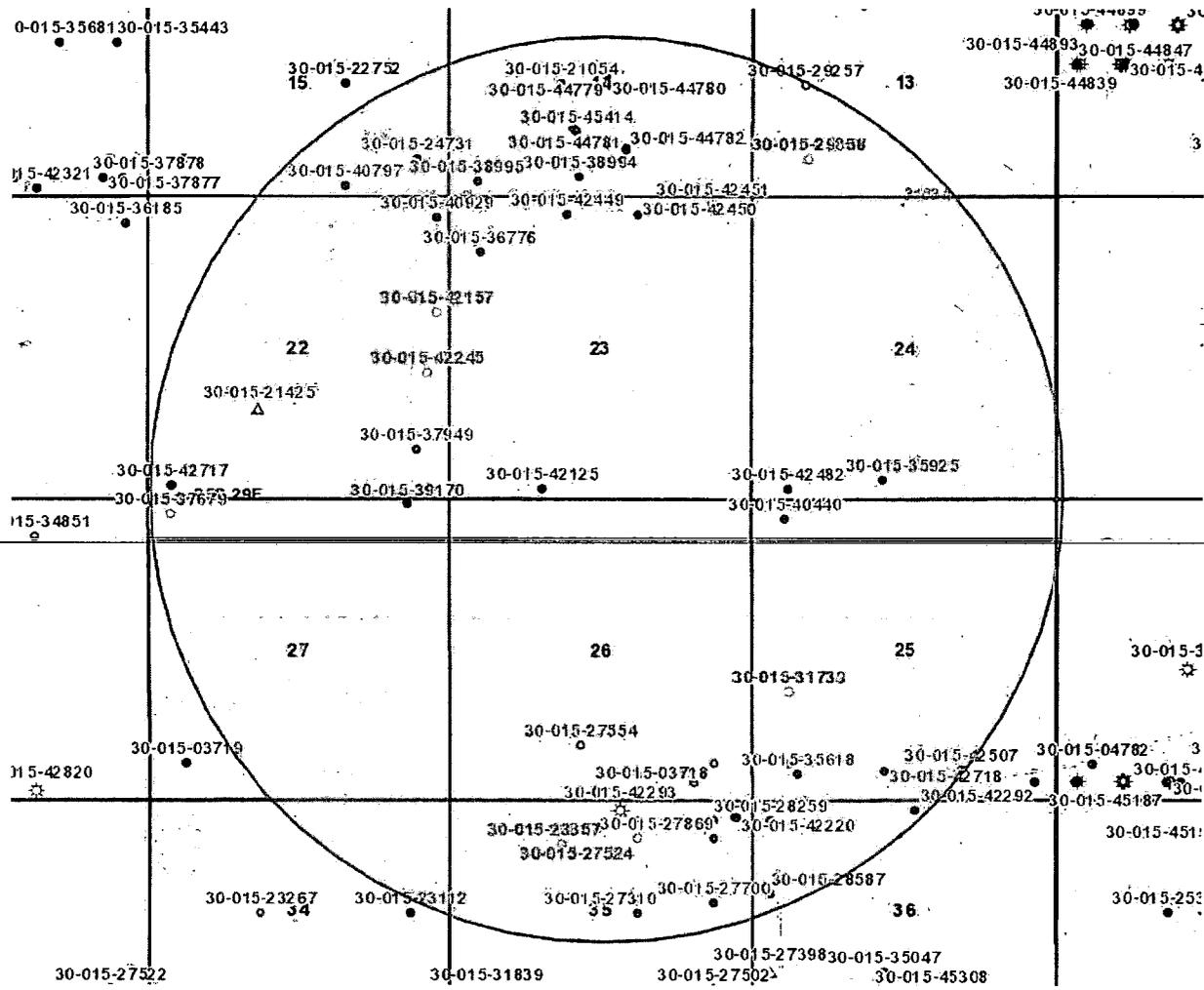
MARK DILLON HARP
 REGISTERED PROFESSIONAL LAND SURVEYOR
 STATE OF NEW MEXICO NO. 23786

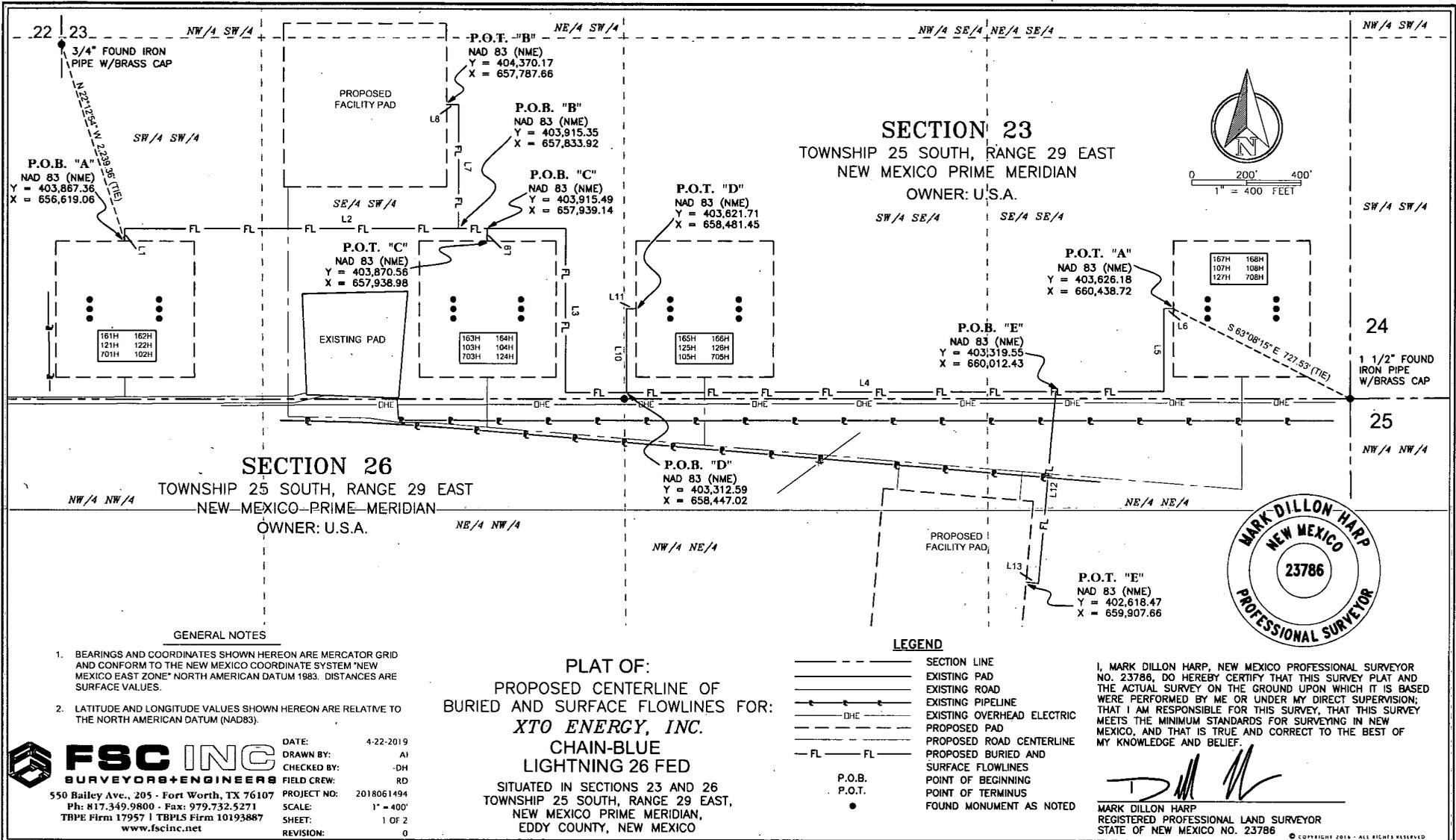


550 Bailey Ave., 205 - Fort Worth, TX 76107
 Ph: 817.349.9800 - Fax: 979.732.5271
 TRPE Firm 17957 | TBPLS Firm 10193887
 www.fscinc.net

DATE: 4-15-2019
 DRAWN BY: JC
 CHECKED BY: DH
 FIELD CREW: KN
 PROJECT NO: 2018061494
 SCALE: 1" = 400'
 SHEET: 2 OF 2
 REVISION: NONE

Chain-Blue Lightning 26 Federal 1-Mile Radius Map





SECTION 23
 TOWNSHIP 25 SOUTH, RANGE 29 EAST
 NEW MEXICO PRIME MERIDIAN
 OWNER: U.S.A.

SECTION 26
 TOWNSHIP 25 SOUTH, RANGE 29 EAST
 NEW MEXICO PRIME MERIDIAN
 OWNER: U.S.A.



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

PLAT OF:
 PROPOSED CENTERLINE OF
 BURIED AND SURFACE FLOWLINES FOR:
XTO ENERGY, INC.
 CHAIN-BLUE
 LIGHTNING 26 FED
 SITUATED IN SECTIONS 23 AND 26
 TOWNSHIP 25 SOUTH, RANGE 29 EAST,
 NEW MEXICO PRIME MERIDIAN,
 EDDY COUNTY, NEW MEXICO

- LEGEND**
- SECTION LINE
 - EXISTING PAD
 - EXISTING ROAD
 - EXISTING PIPELINE
 - DHE- EXISTING OVERHEAD ELECTRIC
 - PROPOSED PAD
 - FL- FL PROPOSED ROAD CENTERLINE
 - PROPOSED BURIED AND SURFACE FLOWLINES
 - P.O.B.
 - P.O.T.
 - FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]
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 REGISTERED PROFESSIONAL LAND SURVEYOR
 STATE OF NEW MEXICO NO. 23786

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 www.fscinc.net

DATE: 4-22-2019
 DRAWN BY: AI
 CHECKED BY: -DH
 FIELD CREW: RD
 PROJECT NO: 2018061494
 SCALE: 1" = 400'
 SHEET: 1 OF 2
 REVISION: 0

**CHAIN-BLUE LIGHTNING 26 FED PROPOSED BURIED AND SURFACE FLOWLINES
DESCRIPTION:**

SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 5,641.54 FEET, 341.91 RODS, OR 1.04 MILES IN LENGTH CROSSING SECTIONS 23 AND 26, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 25.0 FEET RIGHT AND 25.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 6.45 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

LINE SEGMENTS - L2, L3, L4, L7, L8, L12, & L13

SW/4 SW/4 SECTION 23 = 492.68 FEET = 29.86 RODS = 0.58 OF AN ACRE
SE/4 SW/4 SECTION 23 = 2,431.12 FEET = 147.34 RODS = 2.74 ACRES
SW/4 SE/4 SECTION 23 = 1,324.15 FEET = 80.25 RODS = 1.44 ACRES
SE/4 SE/4 SECTION 23 = 665.85 FEET = 40.35 RODS = 0.75 OF AN ACRE
NE/4 NW/4 SECTION 26 = (EASEMENT ONLY) 0.02 OF AN ACRE
NW/4 NE/4 SECTION 26 = (EASEMENT ONLY) 0.08 OF AN ACRE
NE/4 NE/4 SECTION 26 = 727.74 FEET = 44.11 RODS = 0.84 OF AN ACRE

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 00°12'04" W	45.04'
L2	N 89°51'47" E	1605.18'
L3	S 00°07'41" E	604.60'
L4	N 89°44'47" E	2179.42'
L5	N 00°12'45" W	304.81'
L6	N 89°51'40" E	35.03'

LINE TABLE "B"

L7	N 00°08'32" W	454.92'
L8	S 89°51'51" W	45.14'

LINE TABLE "C"

L9	S 00°11'52" W	44.93'
----	---------------	--------

LINE TABLE "D"

L10	N 00°06'14" W	309.03'
L11	N 89°50'28" E	34.98'

LINE TABLE "E"

L12	S 04°52'22" W	707.45'
L13	N-85°07'38" W	44.83'

TOTAL LENGTH = 6,415.36 FEET
OR 388.81 RODS

GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

**CHAIN-BLUE LIGHTNING 26 FED PROPOSED BURIED AND SURFACE FLOWLINES
DESCRIPTION:**

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 773.82 FEET, 46.90 RODS, OR 0.15 MILES IN LENGTH CROSSING SECTION 23, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 0.46 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

LINE SEGMENTS - L1, L5, L6, L9, L10, & L11

SW/4 SW/4 SECTION 23 = 45.04 FEET = 2.73 RODS = 0.01 OF AN ACRE
SE/4 SW/4 SECTION 23 = 44.93 FEET = 2.72 RODS = 0.06 OF AN ACRE
SW/4 SE/4 SECTION 23 = 344.01 FEET = 20.85 RODS = 0.17 OF AN ACRE
SE/4 SE/4 SECTION 23 = 339.84 FEET = 20.60 RODS = 0.22 OF AN ACRE



**PLAT OF:
PROPOSED CENTERLINE OF
BURIED AND SURFACE FLOWLINES FOR:
XTO ENERGY, INC.**

**CHAIN-BLUE
LIGHTNING 26 FED**

SITUATED IN SECTIONS 23 AND 26
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

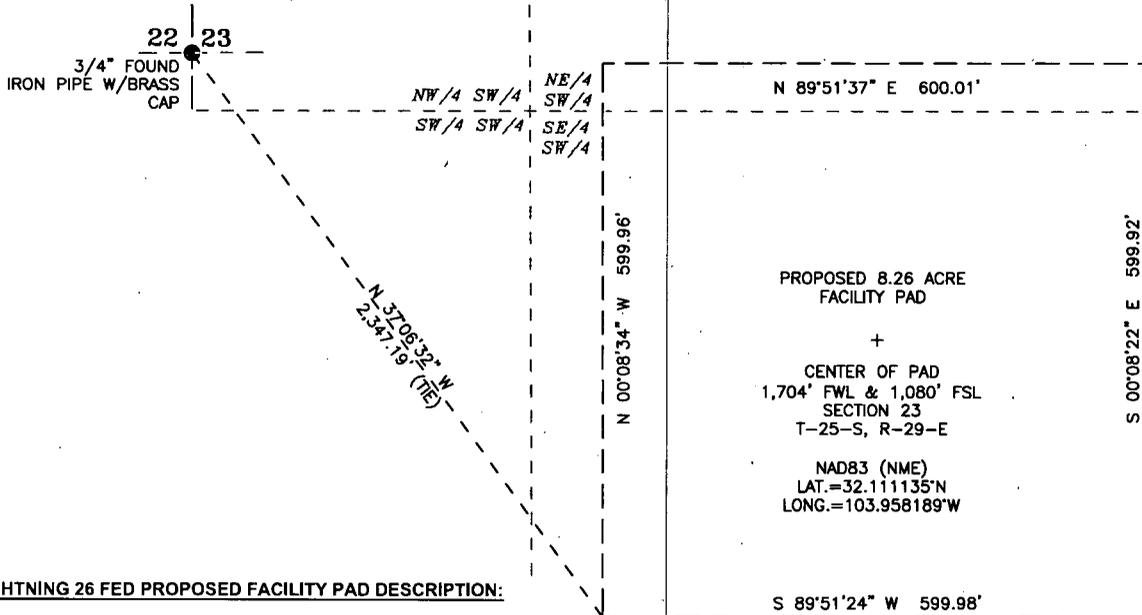
I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

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SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE: 4-22-2019
DRAWN BY: AI
CHECKED BY: DH
FIELD CREW: RD
PROJECT NO: 2018061494
SCALE: 1" = 400'
SHEET: 2 OF 2
REVISION: NONE



CHAIN-BLUE LIGHTNING 26 FED PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 8.26 acres and being situated in Section 23, Township 25 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southwest corner of the proposed facility pad from which a 3/4" iron pipe found with a brass cap, being the west line of said Section 23, bears N 37°06'32" W 2,347.19 feet;

THENCE over and across said Section 23, the following courses and distances:

- N 00°08'34" w, a distance of 599.96 feet to a point;
- N 89°51'37" E, a distance of 600.01 feet to a point;
- S 00°08'22" E, a distance of 599.92 feet to a point;
- S 89°51'24" W, a distance of 599.98 feet to the POINT OF BEGINNING containing a total of **8.26 acres**, more or less.

Said pad is divided in each quarter-quarter section as follows:

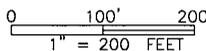
- NE/4 SW/4 Section 23 = 0.72 ACRES
- SE/4 SW/4 Section 23 = 7.54 ACRES

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

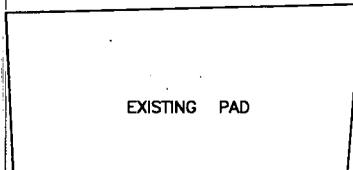
I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786



P.O.B.
NAD 83 (NME)
Y = 404,068.64
X = 657,188.53

SECTION 23
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN
OWNER: U.S.A.



EXISTING PAD

LEGEND

- SECTION LINE
- - - - - PROPOSED FACILITY PAD
- P.O.B. POINT OF BEGINNING
- FOUND MONUMENT AS NOTED

XTO ENERGY, INC.

**CHAIN-BLUE LIGHTNING
26 FED**

SURVEY FOR A PROPOSED FACILITY PAD
SITUATED IN THE SW/4 OF SECTION 23,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	5-10-2019	PROJECT NO:	2018061494
DRAWN BY:	JC	SCALE:	1" = 200'
CHECKED BY:	AI	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NONE



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Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
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0 250' 500'
1" = 500' FEET

SW/4 SW/4
P.O.B. "A"
AT CENTERLINE OF
MSO CORRIDOR
NAD 83 (NME)
Y = 409,296.58
X = 656,783.66

CENTERLINE ROW 2 MSO CORRIDOR

SE/4 SE/4

3/4" FOUND
IRON PIPE
W/BRASS CAP

15

22

SE/4 SW/4
SECTION 14
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN
OWNER: U.S.A.

SECTION 23
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN
OWNER: U.S.A.

NE/4 NE/4

NW/4 NW/4

NE/4 NW/4

SE/4 NE/4

SW/4 NW/4

SE/4 NW/4

NE/4 SE/4

NW/4 SW/4

NE/4 SW/4

MATCHLINE SEE PAGE 2

LEGEND

- SECTION LINE
- EXISTING ROAD
- DHE PROPOSED OVERHEAD ELECTRIC LINE
- P.O.B.
- FOUND MONUMENT AS NOTED

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

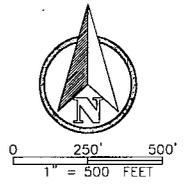
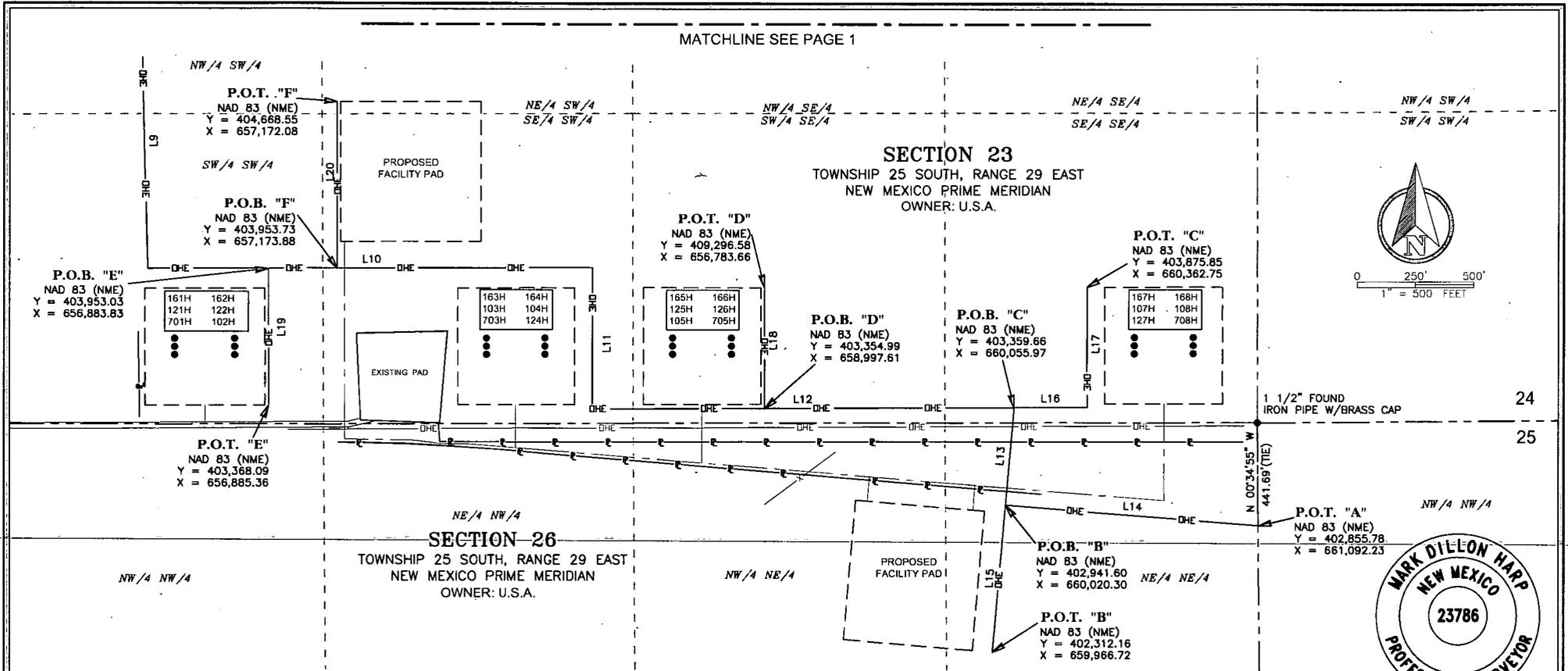
PLAT OF:
PROPOSED CENTERLINE OF
OVERHEAD ELECTRIC LINE FOR:
XTO ENERGY, INC.
CHAIN-BLUE
LIGHTNING 26 FEDERAL
SITUATED IN SECTIONS 14, 23, 26,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO



550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net
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DATE: 5-23-2019 PROJECT NO: 2018061494
DRAWN BY: JC SCALE: 1" = 500'
CHECKED BY: DH SHEET: 1 OF 3
FIELD CREW: DL REVISION: NO

MATCHLINE SEE PAGE 1



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

PLAT OF:
PROPOSED CENTERLINE OF
OVERHEAD ELECTRIC LINE FOR:
XTO ENERGY, INC.
CHAIN-BLUE
LIGHTNING 26 FEDERAL
SITUATED IN SECTIONS 14, 23, 26,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE: 5-23-2019
DRAWN BY: JC
CHECKED BY: DH
FIELD CREW: KN
PROJECT NO: 2018061494
SCALE: 1" = 500'
SHEET: 2 OF 3
REVISION: 0

CHAIN-BLUE LIGHTNING 26 FED PROPOSED OVERHEAD ELECTRIC LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 14,944.88 FEET, 905.75 RODS, OR 2.83 MILES IN LENGTH CROSSING SECTIONS 14, 23, 26, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 10.25 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SW/4 SW/4 SECTION 14 = 811.49 FEET = 49.18 RODS = 0.56 OF AN ACRE
 NW/4 NW/4 SECTION 23 = 1,751.72 FEET = 106.16 RODS = 1.21 ACRES
 SW/4 NW/4 SECTION 23 = 1,344.08 FEET = 81.46 RODS = 0.93 OF AN ACRE
 NW/4 SW/4 SECTION 23 = 1,327.84 FEET = 80.48 RODS = 0.91 OF AN ACRE
 SW/4 SW/4 SECTION 23 = 1,978.95 FEET = 119.94 RODS = 1.35 ACRES
 NE/4 SW/4 SECTION 23 = 52.50 FEET = 3.18 RODS = 0.04 OF AN ACRE
 SE/4 SW/4 SECTION 23 = 2,593.32 FEET = 157.17 RODS = 1.78 ACRES
 SW/4 SE/4 SECTION 23 = 1,842.07 FEET = 111.64 RODS = 1.26 ACRES
 SE/4 SE/4 SECTION 23 = 1,180.95 FEET = 71.57 RODS = 0.80 OF AN ACRE
 NE/4 NE/4 SECTION 26 = 2,081.96 FEET = 124.97 RODS = 1.41 ACRES

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 34°27'46" W	349.24'
L2	S 36°00'50" W	264.04'
L3	S 05°43'43" W	669.37'
L4	S 44°40'44" W	451.67'
L5	S 46°50'11" W	280.00'
L6	S 48°53'15" E	77.06'
L7	S 51°07'50" E	376.90'
L8	S 51°08'13" E	137.36'
L9	S 01°22'50" E	3,292.08'
L10	N 89°51'47" E	1,884.07'
L11	S 00°08'08" E	604.57'
L12	N 89°44'50" E	1,790.57'
L13	S 04°52'35" W	419.65'
L14	S 85°25'22" E	1,075.37'

LINE TABLE "B"

L15	S 04°51'56" W	631.71'
-----	---------------	---------

LINE TABLE "C"

L16	N 89°44'50" E	308.74'
L17	N 00°13'05" W	514.83'

LINE TABLE "D"

L18	N 00°10'47" W	517.89'
-----	---------------	---------

LINE TABLE "E"

L19	S 00°08'57" E	584.94'
-----	---------------	---------

LINE TABLE "F"

L20	N 00°08'40" W	714.82'
-----	---------------	---------

TOTAL LENGTH = 14,944.88 FEET
OR 905.75 RODS

GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



PLAT OF:
 PROPOSED CENTERLINE OF
 OVERHEAD ELECTRIC LINE FOR:
XTO ENERGY, INC.
 CHAIN-BLUE
 LIGHTNING 26 FEDERAL
 SITUATED IN SECTIONS 14, 23, 26,
 TOWNSHIP 25 SOUTH, RANGE 29 EAST,
 NEW MEXICO PRIME MERIDIAN,
 EDDY COUNTY, NEW MEXICO

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
 REGISTERED PROFESSIONAL LAND SURVEYOR
 STATE OF NEW MEXICO NO. 23786



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DATE: 5-23-2019
 DRAWN BY: JC
 CHECKED BY: DH
 FIELD CREW: KN
 PROJECT NO: 2018061494
 SCALE:
 SHEET: 3 OF 3
 REVISION: NONE

23 3/4" FOUND IRON PIPE W/BRASS CAP
26

N 70°52'28" W
1,000.67' (TIE)

P.O.T. "B"
NAD 83 (NME)
Y = 402,963.83
X = 659,384.91

S 85°07'36" E 550.03'

PROPOSED 7.58 ACRE FACILITY PAD

CENTER OF PAD
1511' FEL & 648' FNL
SECTION 26
T-25-S, R-29-E
+
NAD83 (NME)
LAT.=32.106365°N
LONG.=103.951278°W

N-04°52'04" E 599.96'

S 04°52'22" W 599.93'

N 85°07'48" W 549.98'

NW/4 NE/4 NE/4 NE/4

CHAIN-BLUE LIGHTNING 26 FED PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 7.58 acres and being situated in Section 26, Township 25 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the northwest corner of the proposed facility pad from which a 3/4" iron pipe found with a brass cap, being the north line of said Section 26, bears N 70°52'28" W 1,000.67 feet;

THENCE over and across said Section 26, the following courses and distances:

- S 85°07'36" E, a distance of 550.03 feet to a point;
- S 04°52'22" W, a distance of 599.93 feet to a point;
- N 85°07'48" W, a distance of 549.98 feet to a point;
- N 04°52'04" w, a distance of 599.96 feet to the POINT OF BEGINNING containing a total of **7.58 acres**, more or less.

Said pad is divided in each quarter-quarter section as follows:

NW/4 NE/4 Section 26 = 5.67 ACRES
NE/4 NE/4 Section 26 = 1.91 ACRES

SECTION 26
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN
OWNER: U.S.A.



LEGEND

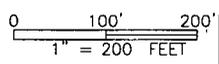
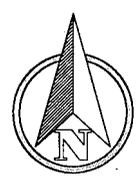
- EXISTING PIPELINE
- SECTION LINE
- EXISTING FENCE
- PROPOSED FACILITY PAD
- P.O.B. POINT OF BEGINNING
- FOUND MONUMENT AS NOTED

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



[Signature]

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

XTO ENERGY, INC.

**CHAIN-BLUE LIGHTNING
26 FED**

SURVEY FOR A PROPOSED FACILITY PAD
SITUATED IN THE NE/4 OF SECTION 26,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

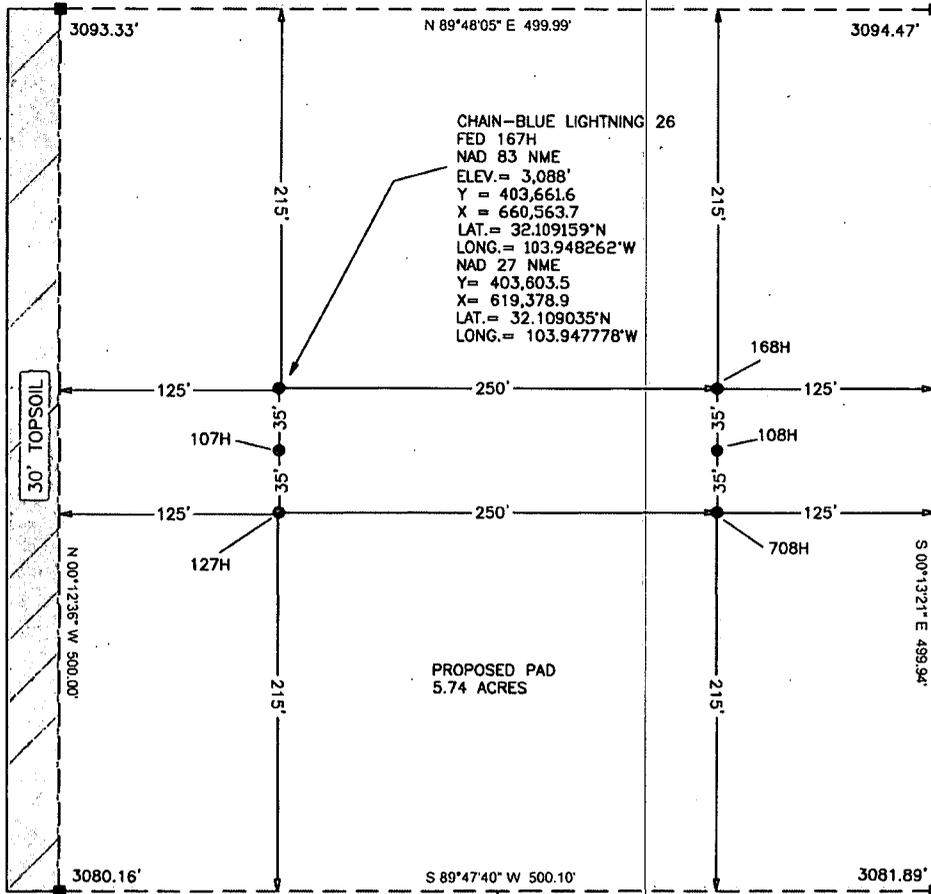


550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	9-12-2019	PROJECT NO:	2018061494
DRAWN BY:	JC	SCALE:	1" = 200'
CHECKED BY:	AI	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NONE

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SECTION 23
 TOWNSHIP 25 SOUTH, RANGE 29 EAST
 NEW MEXICO PRIME MERIDIAN
 OWNER: U.S.A.



SE/4 SE/4

NE/4 NE/4

SECTION 26
 TOWNSHIP 25 SOUTH, RANGE 29 EAST
 NEW MEXICO PRIME MERIDIAN
 OWNER: U.S.A.

PROPOSED ACCESS ROAD
 S 00°08'54" E 413.64'

LEGEND

- PROPOSED PAD
- PROPOSED ACCESS RD.

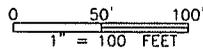
XTO ENERGY, INC.

WELL SITE PLAN

CHAIN-BLUE LIGHTNING 26 FED #167H
 LOCATED 365 FEET FROM THE SOUTH LINE
 AND 523 FEET FROM THE EAST LINE OF
 SECTION 23, TOWNSHIP 25 SOUTH, RANGE 29
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

NOTE:

- 1) SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION



DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF PECOS HIGHWAY (285) AND LONGHORN RD. GO NORTHEAST ON LONGHORN RD APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE RD NUMBER 1 AND GO APPROX. 1.8 MILES. TURN LEFT (NORTH) ONTO THE LEASE RD AND GO APPROX. 2.2 MILES. TURN RIGHT (EAST) AT FORK IN THE ROAD AND GO APPROX. 1 MILE. TURN RIGHT (SOUTH) ON TO LEASE ROAD AND GO APPROX. 1.4 MILES ARRIVING AT THE PROPOSED ROAD AND LOCATION WILL BE TO THE NORTH.



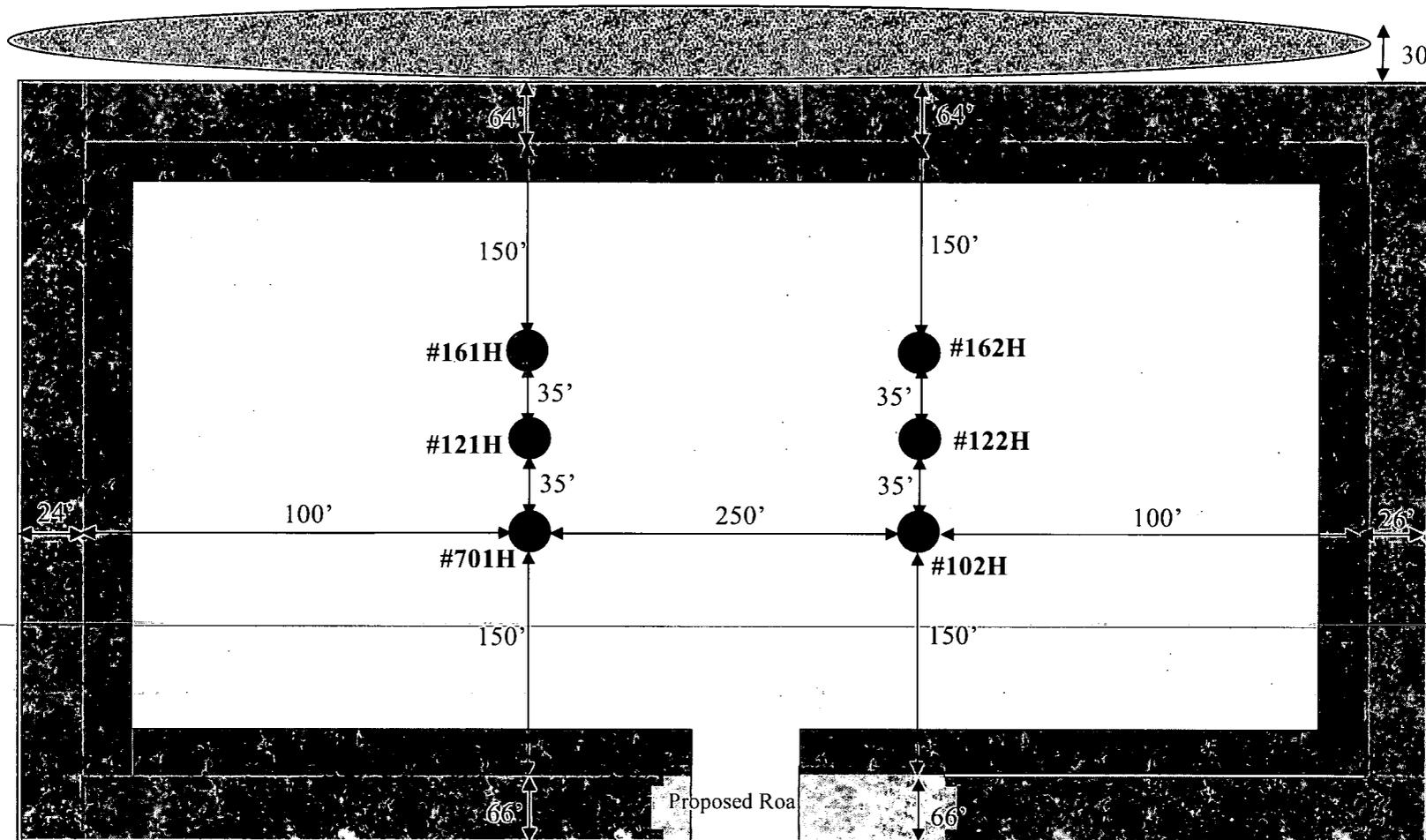
550 Bailey Ave., 205 - Fort Worth, TX 76107
 Ph: 817.349.9800 - Fax: 979.732.5271
 TBPE Firm 17957 | TBPLS Firm 10193887
 www.fscinc.net

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DATE:	04-10-2019	PROJECT NO:	2018020638
DRAWN BY:	AI	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	0

Interim Reclamation Diagram

Chain-Blue Lightning 161H, 121H, 701H, 162H, 122H, 102H
V-Door North: 161H, 121H, 701H; V-Door South: 162H, 122H, 102H



LEGEND



Wellbore

Interim Reclamation



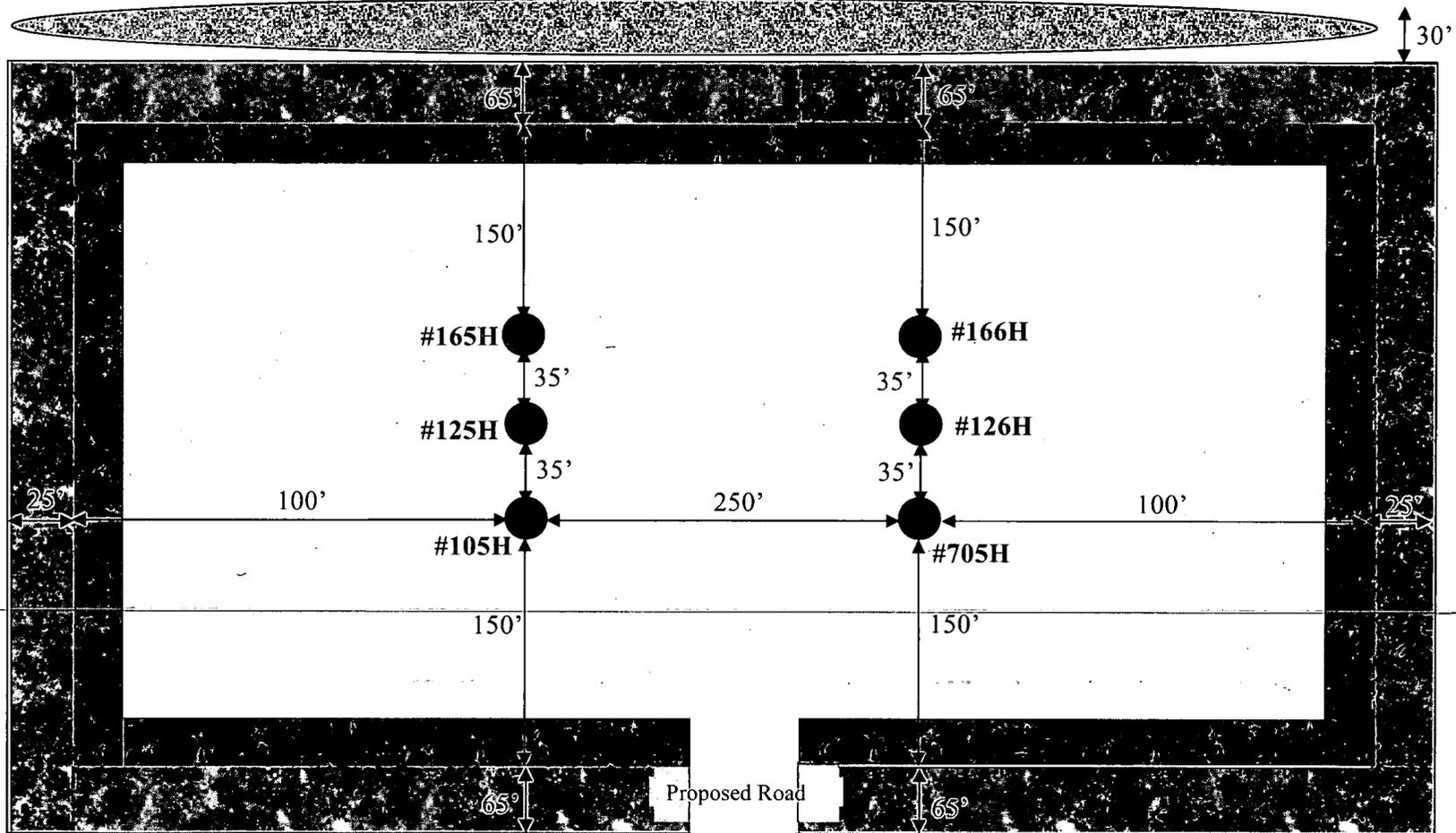
Ditch & Berm



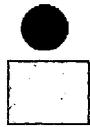
Topsoil

Interim Reclamation Diagram

Chain-Blue Lightning 165H, 125H, 105H, 166H, 126H, 705H
V-Door North: 165H, 125H 105H; V-Door South: 166H, 126H, 705H



LEGEND



Wellbore

Interim Reclamation



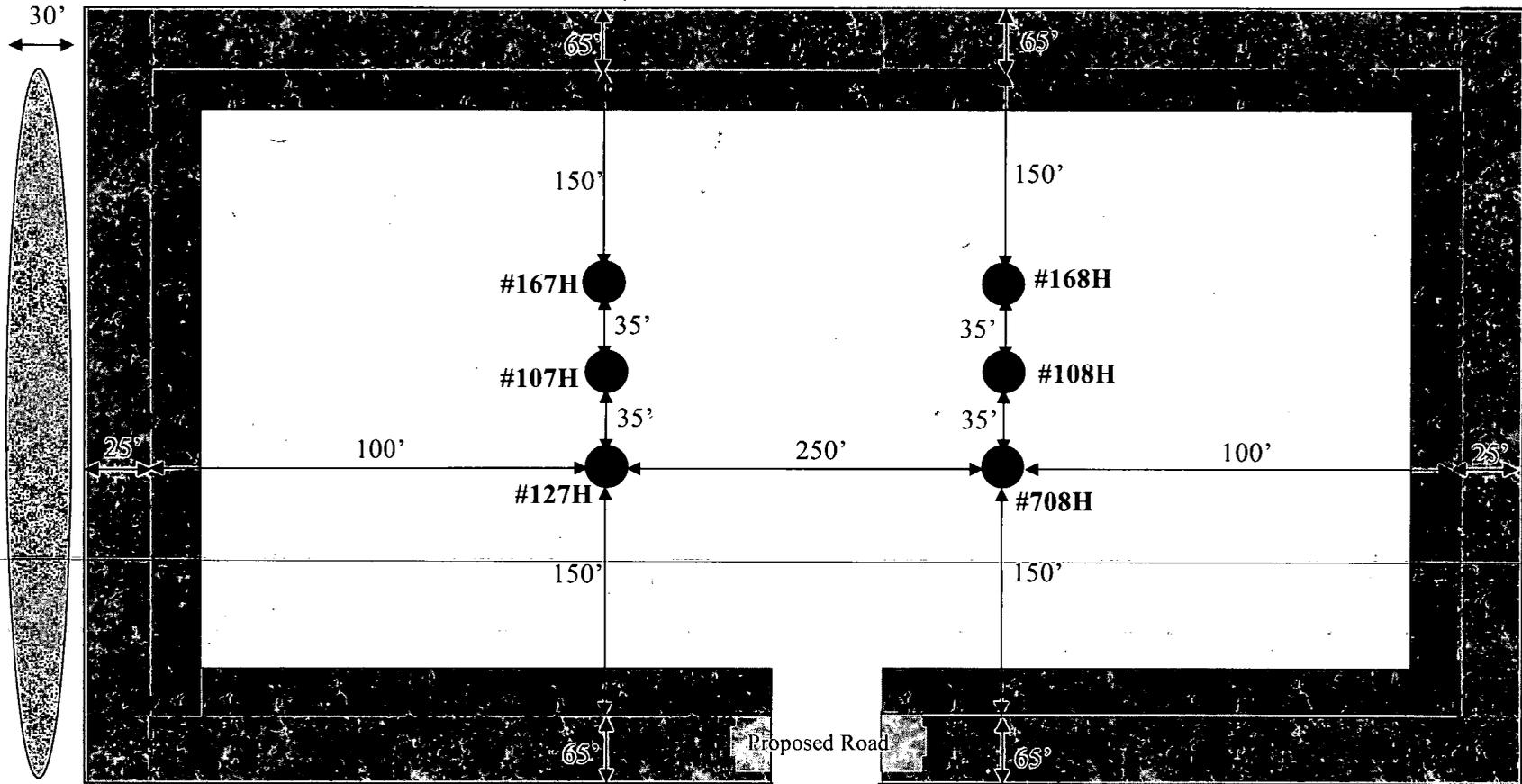
Ditch & Berm



Topsoil

Interim Reclamation Diagram

Chain-Blue Lightning 167H, 107H, 127H, 168H, 108H, 708H
V-Door North: 167H, 107H, 127H; V-Door South: 168H, 108H, 708H



LEGEND



Wellbore



Interim Reclamation



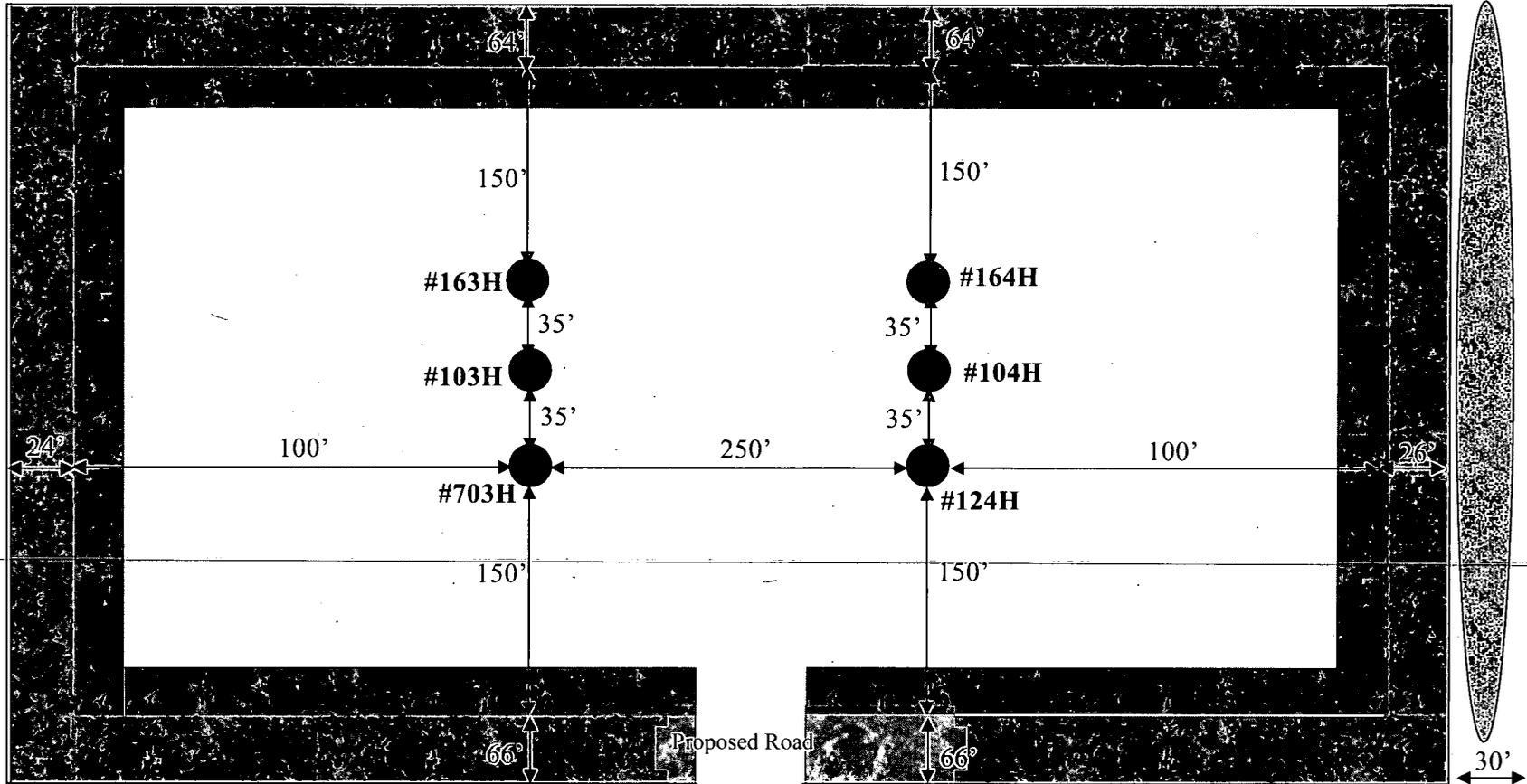
Ditch & Berm



Topsoil

Interim Reclamation Diagram

Chain-Blue Lightning 163H, 103H, 703H, 164H, 104H, 124H
V-Door North: 163H, 103H, 703H; V-Door South: 164H, 104H, 124H



LEGEND



Wellbore

Interim Reclamation



Ditch & Berm



Topsoil

Shanghai 26 Federal / Chain-Blue Lightning Federal 26 Well List

<u>Well Name</u>	<u>Old Well Name</u>	<u>SHL</u>	<u>BHL</u>
CHAIN-BLUE LIGHTNING 26 FED 102H	Shanghai 26 Fed 122H	296'FSL & 955'FWL, 23-T25S-R29E	200'FSL & 750'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 103H	Shanghai 26 Fed 903H	331'FSL & 2025'FWL, 23-T25S-R29E	200'FSL & 1590'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 104H	Shanghai 26 Fed 104H	331'FSL & 2225'FWL, 23-T25S-R29E	200'FSL & 2430'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 105H	Shanghai 26 Fed 125H	295'FSL & 2480'EL, 23-T25S-R29E	200'FSL & 2010'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 107H	Shanghai 26 Fed 907H	330'FSL & 523'FEL, 23-T25S-R29E	200'FSL & 1170'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 108H	Shanghai 26 Fed 108H	331'FSL & 273'FEL, 23-T25S-R29E	200'FSL & 330'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 121H	Shanghai 26 Fed 901H	331'FSL & 705'FWL, 23-T25S-R29E	200'FSL & 330'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 122H	Shanghai 26 Fed 102H	331'FSL & 955'FWL, 23-T25S-R29E	200'FSL & 1170'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 124H	Shanghai 26 Fed 124H	296'FSL & 2225'FWL, 23-T25S-R29E	200'FSL & 2010'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 125H	Shanghai 26 Fed 905H	330'FSL & 2480'FEL, 23-T25S-R29E	200'FSL & 2430'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 126H	Shanghai 26 Fed 106H	330'FSL & 2230'FEL, 23-T25S-R29E	200'FSL & 1590'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 127H	Shanghai 26 Fed 127H	295'FSL & 523'FEL, 23-T25S-R29E	200'FSL & 750'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 161H	Shanghai 26 Fed 701H	366'FSL & 705'FWL, 23-T25S-R29E	200'FSL & 330'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 162H	Shanghai 26 Fed 702H (PH)	366'FSL & 955'FWL, 23-T25S-R29E	200'FSL & 990'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 163H	Shanghai 26 Fed 703H	366'FSL & 2025'FWL, 23-T25S-R29E	200'FSL & 1650'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 164H	Shanghai 26 Fed 704H (PH)	366'FSL & 2225'FWL, 23-T25S-R29E	200'FSL & 2310'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 165H	Shanghai 26 Fed 705H	365'FSL & 2480'FEL, 23-T25S-R29E	200'FSL & 2310'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 166H	Shanghai 26 Fed 706H (PH)	365'FSL & 2230'FEL, 23-T25S-R29E	200'FSL & 1650'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 167H	Shanghai 26 Fed 707H	365'FSL & 523'FEL, 23-T25S-R29E	200'FSL & 990'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 168H	Shanghai 26 Fed 708H (PH)	366'FSL & 273'FEL, 23-T25S-R29E	200'FSL & 330'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 701H	Shanghai 26 Fed 121H	296'FSL & 705'FWL, 23-T25S-R29E	50'FSL & 660'FWL, 23-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 703H	Shanghai 26 Fed 123H	296'FSL & 2025'FWL, 23-T25S-R29E	50'FSL & 1980'FWL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 705H	Shanghai 26 Fed 126H	295'FSL & 2230'FEL, 23-T25S-R29E	50'FSL & 1980'FEL, 26-T25S-R29E
CHAIN-BLUE LIGHTNING 26 FED 708H	Shanghai 26 Fed 128H	296'FSL & 273'FEL, 23-T25S-R29E	50'FSL & 660'FEL, 26-T25S-R29E

Well Site Locations

The results of the Chain-Blue Lightning 26 Federal Development Program will develop economic quantities of oil and gas in the 'Shanghai Rooster' development area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

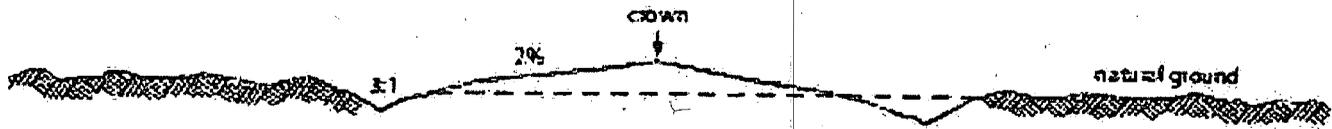
Surface Use Plan

1. Existing Roads

- A. The Chain-Blue Lightning 26 Federal development area is accessed from the intersection of Pecos Highway (285) and Longhorn Road. Go Northeast on Longhorn Road approximately 4.2 miles. Turn left (Northeast) onto Pipeline Road Number 1 and go approximately 1.8 miles. Turn left (North) onto the lease road and go approximately 2.2 miles. Turn right (East) at the fork in the road and go approximately 1 mile. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, 'Topographical and Access Road Map.'
- B. There are existing access roads to the proposed Chain-Blue Lightning 26 Federal well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. New or Upgraded Access Roads

- A. **New Roads.** There is a total of approximately 5,470.98 feet or 1.04 miles of proposed and staked access roads in the Chain-Blue Lightning 26 Federal lease area.
- B. **Well Pads.** The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
- C. **Anticipated Traffic.** After well completion, travel to each well site will include one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the Topographical and Access Road Map provided by FSC, Inc. unless otherwise approved by the BLM and applied for by XTO Energy, Incorporated.
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 20 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

- F. **Surface Material.** Surface material will be native caliche. The average grade of all roads will be approximately 3%.
- G. **Fence Cuts:** No.
- H. **Fences:** No.
- I. **Cattle Guards:** No.
- J. **Turnouts:** No.
- K. **Culverts:** No.
- L. **Cuts and Fills:** Not significant.
- M. **Topsoil.** Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
- N. **Maintenance.** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- O. **Drainage.** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. Location of Existing Wells

- A. See attached 1-mile radius well map.

4. Ancillary Facilities

- A. **Ancillary Facilities.** No off-pad ancillary facilities are planned during the exploration phase including, but not limited to: campsites, airstrips or staging areas.

5. Location of Proposed Production Facilities

- A. **Production Facilities.** Two CTB pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The Northern most facility is the Shanghai 26 Fed CTB [600'x600'] and is located in Section 26-T25S-R30E NMPM, Eddy County, New Mexico. The Southernmost facility is the Shanghai 24 Fed CTB [600'x550'] and is located in Section 23-T25S-R30E NMPM, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.
- B. **Flowlines.** In the event the wells are found productive, 24-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the Shanghai 26 Fed CTB & the Shanghai 24 Fed CTB where the oil, gas, and water will be metered and separated. If XTO Energy, Inc. decides to run surface lines, 24-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed

CTBs. An additional 24-10" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 5,641.54' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors.

- C. **Gas & Oil Pipeline.** A gas purchaser has been identified and will be building separately to the Shanghai CTBs in this application.
- D. **Disposal Facilities.** Produced water will be piped from location to a disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7.
- E. **Flare.** There will be 2 flares associated with the Chain-Blue Lightning 26 Federal project. The flare stacks will be 50'x50' and located on the production facility locations with no additional surface disturbance.
- F. **Aboveground Structures.** All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.
- G. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- H. **Electrical.** All lines will be primary 12,740 volt to properly run expected production equipment. 14,944.88' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company:
Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Energy, Incorporated. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

7. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations:
 - a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E
 - b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E

8. Methods for Handling Waste

- **Cuttings.** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids.** These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- **Produced Fluids.** Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage.** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris.** Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
 - i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
 - ii. XTO Energy, Inc. and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
 - iii. No hazardous substances or wastes will be stored on the location after completion of the well.

- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

9. Well Site Layout

- A. **Rig Plat Diagrams:** There are 4 anticipated multi-well pads in the Chain-Blue Lightning 26 Federal lease. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:
 1. Pad 1 is a 6-well pad expected to be 500'x500'.
 2. Pad 2 is a 6-well pad expected to be 500'x500'.
 3. Pad 3 is a 6-well pad expected to be 500'x500'.
 4. Pad 4 is a 6-well pad expected to be 500'x500'.

Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- B. **V-Door Orientation:** These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with Colleen Cepero-Rios, BLM Natural Resource Specialist, present at on-site inspection.
 1. Pad 1 has a Dual V-Door Orientation.
 - a. Western Row of Wells: North [Wells: 161H, 121H, 701H]
 - b. Eastern Row of Wells: South [Wells: 162H, 122H, 102H]
 2. Pad 2 has a Dual V-Door Orientation.
 - a. Western Row of Wells: North [Wells: 163H, 103H, 703H]
 - b. Eastern Row of Wells: South [Wells: 164H, 104H, 124H]
 3. Pad 3 has a Dual V-Door Orientation.
 - a. Western Row of Wells: North [Wells: 165H, 125H, 105H]
 - b. Eastern Row of Wells: South [Wells: 166H, 126H, 705H]
 4. Pad 4 has a Dual V-Door Orientation.
 - a. Western Row of Wells: North [Wells: 167H, 107H, 127H]
 - b. Eastern Row of Wells: South [Wells: 168H, 108H, 708H]
- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

10. Plans for Surface Reclamation:

XTO Energy, Incorporated requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, XTO Energy, Inc. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

Non-Commercial Well (Not Productive), Interim & Final Reclamation:

Definition: Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

Reclamation Standards:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State-or County-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds will be controlled.

Seeding:

- Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. Surface Ownership

- A. Within the Chain-Blue Lightning 26 Federal project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information

Changes from Notice of Staking / Onsite

- **Well Names.** Due to the amount of Shanghai Rooster's in the development area it was decided to change the lease name to prevent and reduce confusion.

See reference table below for applicable lease name changes.

Notice of Staking Well Name		APD Well Name
Shanghai 26 Fed 122H	CHAIN-BLUE	LIGHTNING 26 FED 102H
Shanghai 26 Fed 903H	CHAIN-BLUE	LIGHTNING 26 FED 103H
Shanghai 26 Fed 104H	CHAIN-BLUE	LIGHTNING 26 FED 104H
Shanghai 26 Fed 125H	CHAIN-BLUE	LIGHTNING 26 FED 105H
Shanghai 26 Fed 907H	CHAIN-BLUE	LIGHTNING 26 FED 107H
Shanghai 26 Fed 108H	CHAIN-BLUE	LIGHTNING 26 FED 108H
Shanghai 26 Fed 901H	CHAIN-BLUE	LIGHTNING 26 FED 121H
Shanghai 26 Fed 102H	CHAIN-BLUE	LIGHTNING 26 FED 122H
Shanghai 26 Fed 124H	CHAIN-BLUE	LIGHTNING 26 FED 124H
Shanghai 26 Fed 905H	CHAIN-BLUE	LIGHTNING 26 FED 125H
Shanghai 26 Fed 106H	CHAIN-BLUE	LIGHTNING 26 FED 126H
Shanghai 26 Fed 127H	CHAIN-BLUE	LIGHTNING 26 FED 127H
Shanghai 26 Fed 701H	CHAIN-BLUE	LIGHTNING 26 FED 161H
Shanghai 26 Fed 702H (PH)	CHAIN-BLUE	LIGHTNING 26 FED 162H
Shanghai 26 Fed 703H	CHAIN-BLUE	LIGHTNING 26 FED 163H
Shanghai 26 Fed 704H (PH)	CHAIN-BLUE	LIGHTNING 26 FED 164H
Shanghai 26 Fed 705H	CHAIN-BLUE	LIGHTNING 26 FED 165H
Shanghai 26 Fed 706H (PH)	CHAIN-BLUE	LIGHTNING 26 FED 166H
Shanghai 26 Fed 707H	CHAIN-BLUE	LIGHTNING 26 FED 167H
Shanghai 26 Fed 708H (PH)	CHAIN-BLUE	LIGHTNING 26 FED 168H
Shanghai 26 Fed 121H	CHAIN-BLUE	LIGHTNING 26 FED 701H
Shanghai 26 Fed 123H	CHAIN-BLUE	LIGHTNING 26 FED 703H
Shanghai 26 Fed 126H	CHAIN-BLUE	LIGHTNING 26 FED 705H
Shanghai 26 Fed 128H	CHAIN-BLUE	LIGHTNING 26 FED 708H

Surveying

- **Well Sites.** Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by FSC, Inc. a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Colleen Cepero-Rios, Bureau of Land Management Natural Resource Specialist in attendance.
- **Cultural Resources – Archaeology:** Payment into the Permian Basin Programmatic Agreement (PBPA) for all disturbance associated with this application for permit to drill will be made upon submission to the Bureau of Land Management.
- **Dwellings and Structures.** There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- **Environmental Setting.** Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.
- **Traffic.** No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.
- **Water.** There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

Operator's Representatives:

The XTO Energy, Inc. representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Jimie Scott
 Contract Construction Lead
 XTO Energy, Incorporated
 500 W. Illinois St., Suite 100
 Midland, Texas 79701
 432-488-9955
 james_scott@xtoenergy.com



APD ID: 10400042204

Submission Date: 10/07/2019

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data Report

12/31/2019

APD ID: 10400042204

Submission Date: 10/07/2019

Highlighted data
reflects the most
recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: CHAIN-BLUE LIGHTNING 26 FED

Well Number: 167H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: UTB000138

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: