

JAN 07 2019

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DISTRICT II-ARTESIA O.G.D.

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | | |
|---|--|--|-----------------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMNM035607 | |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input checked="" 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 checked="" type="checkbox"/> Single Zone <input 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. ROSS DRAW 25 FED WX 22H 323108 | |
| 3a. Address 2277 Springwoods Village Parkway Spring TX 77389 | | 9. API Well No. 5380 30-015-45585 | |
| 3b. Phone No. (include area code) (432)620-6700 | | 10. Field and Pool, or Exploratory BRUSHY DRAW WOLFCAMP GAS 98280 Purple Sage | |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW / 170 FNL / 2070 FWL / LAT 32.019578 / LONG -103.938972 At proposed prod. zone LOT 2 / 170 FSL / 2190 FWL / LAT 32.000577 / LONG -103.940055 | | 11. Sec., T. R. M. or Blk. and Survey or Area SEC 25 / T26S / R29E / NMP | |
| 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) 170 feet | 16. No of acres in lease 369.5 | 17. Spacing Unit dedicated to this well 480 | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet | 19. Proposed Depth 10179 feet / 16987 feet | 20. BLM/BIA Bond No. in file FED: UTB000138 | |
| 21. Elevations (Show whether DF, KDB, RT, GL. etc.) 2959 feet | 22. Approximate date work will start* 11/20/2018 | 23. Estimated duration 25 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.
- 2. A Drilling Plan.
- 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).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 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 09/22/2018 |
| Title Regulatory Coordinator | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Ty Allen / Ph: (575)234-5978 | Date 12/20/2018 |
| Title Wildlife Biologist | | |
| 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: 12/20/2018
RWP 1-8-19

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 collects this information to allow 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: NENW / 170 FNL / 2070 FWL / TWSP: 26S / RANGE: 29E / SECTION: 25 / LAT: 32.019578 / LONG: -103.938972 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 600 FNL / 1915 FWL / TWSP: 26S / RANGE: 29E / SECTION: 25 / LAT: 32.018365 / LONG: -103.939555 (TVD: 10178 feet, MD: 10500 feet)
BHL: LOT 2 / 170 FSL / 2190 FWL / TWSP: 26S / RANGE: 29E / SECTION: 36 / LAT: 32.000577 / LONG: -103.940055 (TVD: 10179 feet, MD: 16987 feet)

BLM Point of Contact

Name: Katrina Ponder
Title: Geologist
Phone: 5752345969
Email: kponder@blm.gov

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-035607 |
| WELL NAME & NO.: | Ross Draw 25 Fed WX 22H |
| SURFACE HOLE FOOTAGE: | 0170 FNL & 2070' FWL |
| BOTTOM HOLE FOOTAGE: | 0170' FSL & 2190' FWL Sec. 36, T. 26 S., R 29 E. |
| LOCATION: | Section 24, T. 26 S., R 29 E., NMPM |
| COUNTY: | County, New Mexico |

Operator to submit sundry to add "COM" to the well name.

Communitization Agreement

The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

I. DRILLING

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.

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

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

Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately 330 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - 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.

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 and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 3150 feet, is:

-
- Cement to surface. If cement does not circulate see B.I.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

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 (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.

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

3. The minimum required fill of cement behind the 7 inch production casing is:

- Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 15% - Additional cement may be required.**

Formation below the 7" 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.

4. The minimum required fill of cement behind the 4-1/2 inch production Liner is:

- Cement as proposed. Operator shall provide method of verification. **Excess calculates to negative 25% - Additional cement will be required.**

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. **5M 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.**
4. 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 121318

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

| | |
|-----------------------|------------------------------------|
| OPERATOR'S NAME: | XTO Energy Incorporated |
| LEASE NO.: | NMNM35607 |
| WELL NAME & NO.: | Ross Draw 25 Fed WX 22H |
| SURFACE HOLE FOOTAGE: | 170'/N & 2070'/W |
| BOTTOM HOLE FOOTAGE: | 170'/S & 2190'/W |
| LOCATION: | Section 25, T.26 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**
 - Cave/Karst
 - Hydrology
- Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- Road Section Diagram**
- Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
- 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)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production:

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

- The entire perimeter of the well pad 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 high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- 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.
- 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 access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Hydrology:

The entire well pad 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.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method 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.

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

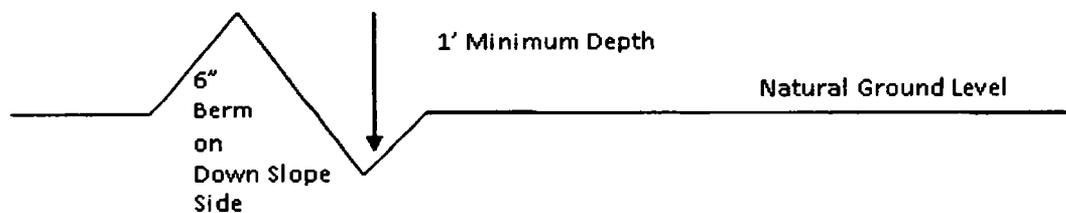
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping 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.

Cross Section of a Typical 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.

Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

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

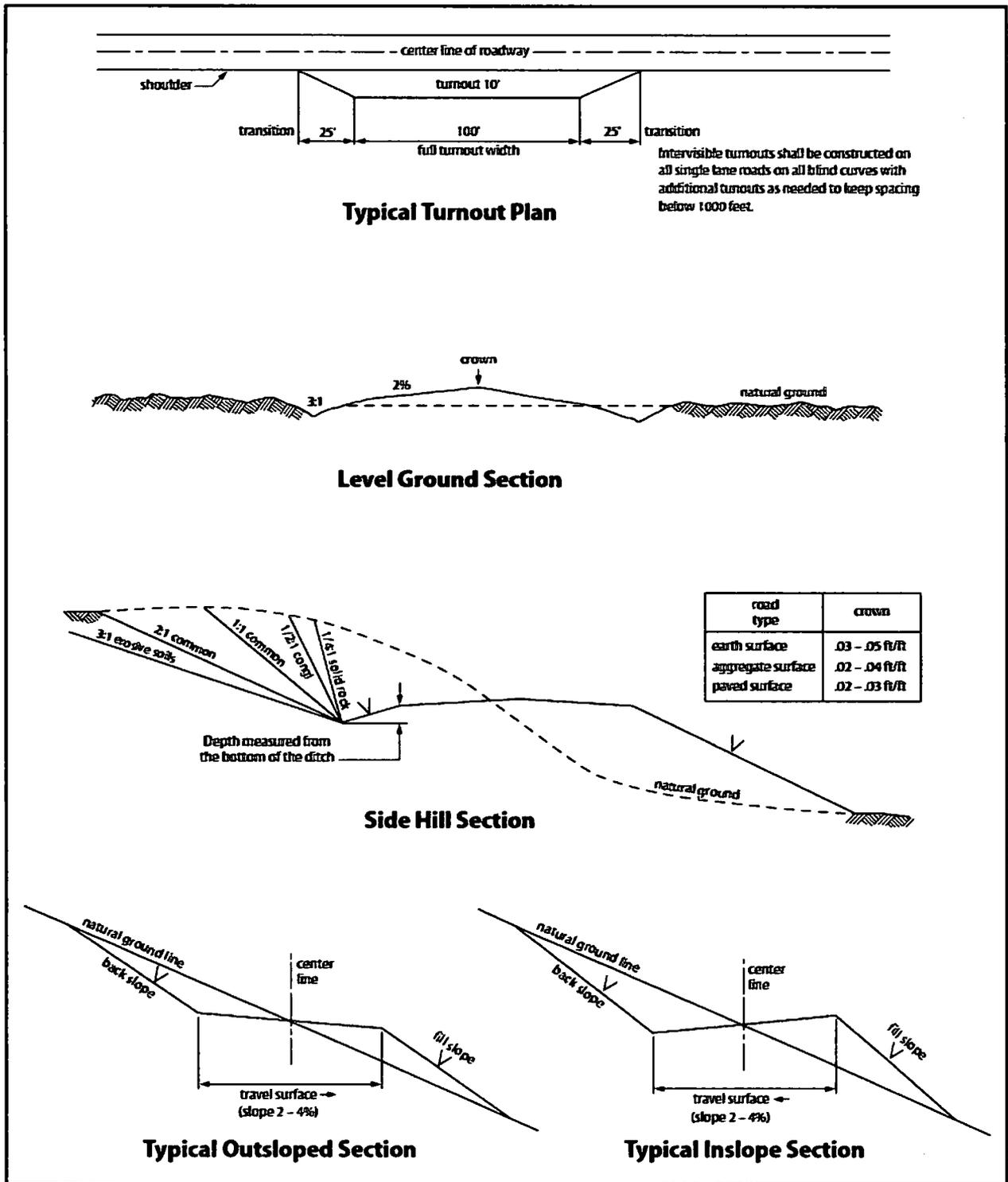


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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

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.

19. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting 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.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

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 (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 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

12/21/2018

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

Signed on: 09/18/2018

Title: Regulatory Coordinator

Street Address: 500 W. Illinois St, Ste 100

City: Midland

State: TX

Zip: 79701

Phone: (432)620-6714

Email address: stephanie_rabadue@xtoenergy.com

Field Representative

Representative Name: Jeff Raines

Street Address: 6401 Holiday Hill Road Bldg 5

City: Midland

State: TX

Zip: 79707

Phone: (432)620-4349

Email address: jeff_raines@xtoenergy.com



APD ID: 10400034474

Submission Date: 09/22/2018

Highlighted data
reflects the most
recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400034474

Tie to previous NOS?

Submission Date: 09/22/2018

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: NMNM035607

Lease Acres: 369.5

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

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BRUSHY DRAW

Pool Name:

WOLFCAMP GAS

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Describe other minerals:

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: ROSS Number: 3

Well Class: HORIZONTAL

DRAW 25

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: CONFIRMATION

Describe sub-type:

Distance to town:

Distance to nearest well: 30 FT

Distance to lease line: 170 FT

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: Ross_25_Fed_22H_C102_20180922101642.pdf

Well work start Date: 11/20/2018

Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

| | 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 |
|------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|-----------|-------------|--------|-------------|-------------|------------|--------------|-----------|-------|-------|
| SHL Leg #1 | 170 | FNL | 2070 | FWL | 26S | 29E | 25 | Aliquot NENW | 32.019578 | -103.938972 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 035607 | 2959 | 0 | 0 |
| KOP Leg #1 | 170 | FNL | 2070 | FWL | 26S | 29E | 25 | Aliquot NENW | 32.019578 | -103.938972 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 035607 | -4401 | 7360 | 7360 |
| PPP Leg #1 | 600 | FNL | 1915 | FWL | 26S | 29E | 25 | Aliquot NENW | 32.018365 | -103.939555 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 035607 | -7219 | 10500 | 10178 |

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

| | 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 |
|-------------------|---------|--------------|----------|--------------|------|-------|---------|-------------------|---------------|---------------------|----------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|
| EXIT Leg #1 | 330 | FSL | 217 9 | FWL | 26S | 29E | 36 | Lot 2 | 32.00101 7 | - 103.9400 43 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 035607 | - 722 0 | 168 27 | 101 79 |
| BHL Leg #1 | 170 | FSL | 219 0 | FWL | 26S | 29E | 36 | Lot 2 | 32.00057 7 | - 103.9400 55 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 035607 | - 722 0 | 169 87 | 101 79 |

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Choke Diagram Attachment:

Ross_25_Fed_5MCM_20180918115853.pdf

BOP Diagram Attachment:

Ross_25_Fed_5MBOP_20180918115803.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 | 17.5 | 13.375 | NEW | API | N | 0 | 330 | 0 | 330 | | | 330 | H-40 | 48 | STC | 5.1 | 1.8 | DRY | 20.33 | DRY | 20.33 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 3090 | 0 | 3090 | | | 3090 | J-55 | 36 | LTC | 2.08 | 1.31 | DRY | 4.07 | DRY | 4.07 |
| 3 | PRODUCTION | 8.75 | 7.0 | NEW | API | N | 0 | 10300 | 0 | 10300 | | | 10300 | P-110 | 29 | LTC | 1.73 | 1.18 | DRY | 2.67 | DRY | 2.67 |
| 4 | LINER | 6.125 | 4.5 | NEW | API | N | 9642 | 17433 | 9642 | 17433 | | | 7791 | P-110 | 13.5 | BUTT | 2.55 | 1.31 | DRY | 2.41 | DRY | 2.41 |

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ross_25_Fed_22H_Csg_20180922102313.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ross_25_Fed_22H_Csg_20180922102612.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ross_25_Fed_22H_Csg_20180922102622.pdf

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ross_25_Fed_22H_Csg_20180922102632.pdf

Section 4 - Cement

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|-----------|
| SURFACE | Lead | | 0 | 330 | 330 | 1.35 | 14.8 | 445.5 | 100 | HalCem-C | 2% CaCl |

| | | | | | | | | | | | |
|--------------|------|--|------|-------|-----|------|------|--------|-----|----------|---------|
| INTERMEDIATE | Lead | | 0 | 3090 | 860 | 1.88 | 12.9 | 1616.8 | 100 | Halcem-C | 2% CaCl |
| INTERMEDIATE | Tail | | | | 230 | 1.33 | 14.8 | 305.9 | 100 | HalCem-C | 2% CaCl |
| PRODUCTION | Lead | | 0 | 10300 | 940 | 1.88 | 12.9 | 1767.2 | 100 | Halcem-C | 2% CaCl |
| PRODUCTION | Tail | | | | 60 | 1.33 | 14.8 | 79.8 | 100 | Halcem-C | 2% CaCl |
| LINER | Lead | | 9642 | 17433 | 660 | 1.88 | 13.2 | 1240.8 | 100 | 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. Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8ppg - 10.2ppg brine mud will be used while drilling through the salt formation. Cut brine will be used to drill the 8-3/4" section. A polymer water will be used to drill the 8-1/2" lateral. Pump speed will be recorded on a daily drilling report after mudding up.

Describe the mud monitoring system utilized: 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. Solids control equipment will be used to operate as a closed loop system.

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 |
|-----------|--------------|----------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
|-----------|--------------|----------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

| 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 |
|-----------|--------------|------------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|---|
| 330 | 3090 | 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. Solids control equipment will be used to operate as a closed loop system. |
| 0 | 330 | 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. Solids control equipment will be used to operate as a closed loop system. |
| 3090 | 10300 | OTHER : FW/Cut Brine | 8.6 | 9.5 | | | | | | | A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system. |
| 10300 | 17433 | OTHER : FW/Cut Brine / Poly-Sweeps | 11.7 | 12 | | | | | | | A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system. |

Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) on below intermediate casing.

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,DLL,GR,MUDLOG

Coring operation description for the well:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

No coring will take place on this well

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6351

Anticipated Surface Pressure: 3874.02

Anticipated Bottom Hole Temperature(F): 175

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Ross_25_Fed_H2S_P3_20180922102803.pdf

Ross_25_Fed_H2S_Plan_20180922102819.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Ross_25_Fed_22H_DD_20180922102905.pdf

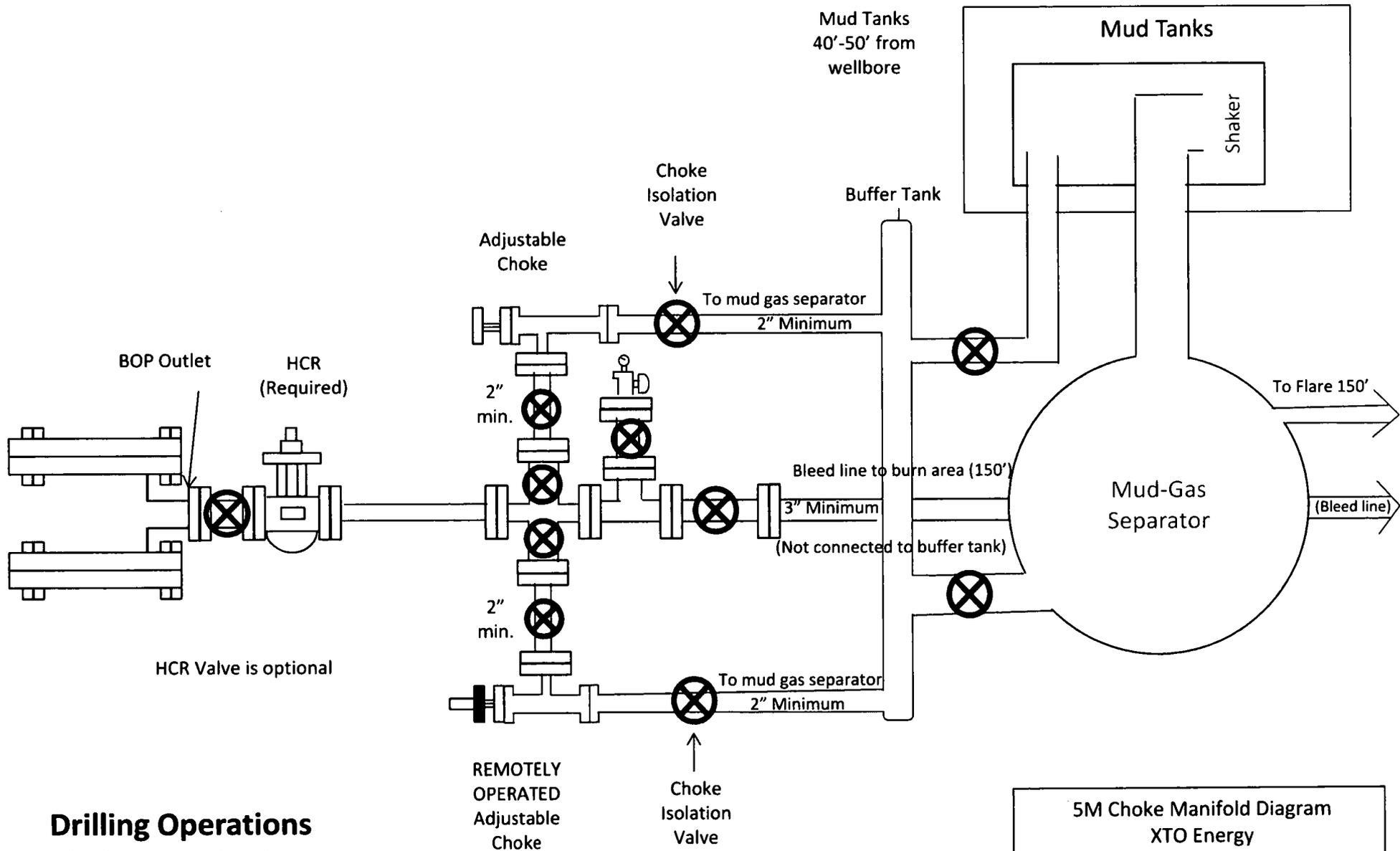
Other proposed operations facets description:

Other proposed operations facets attachment:

Ross_25_Fed_22H_GCP_20180922102919.pdf

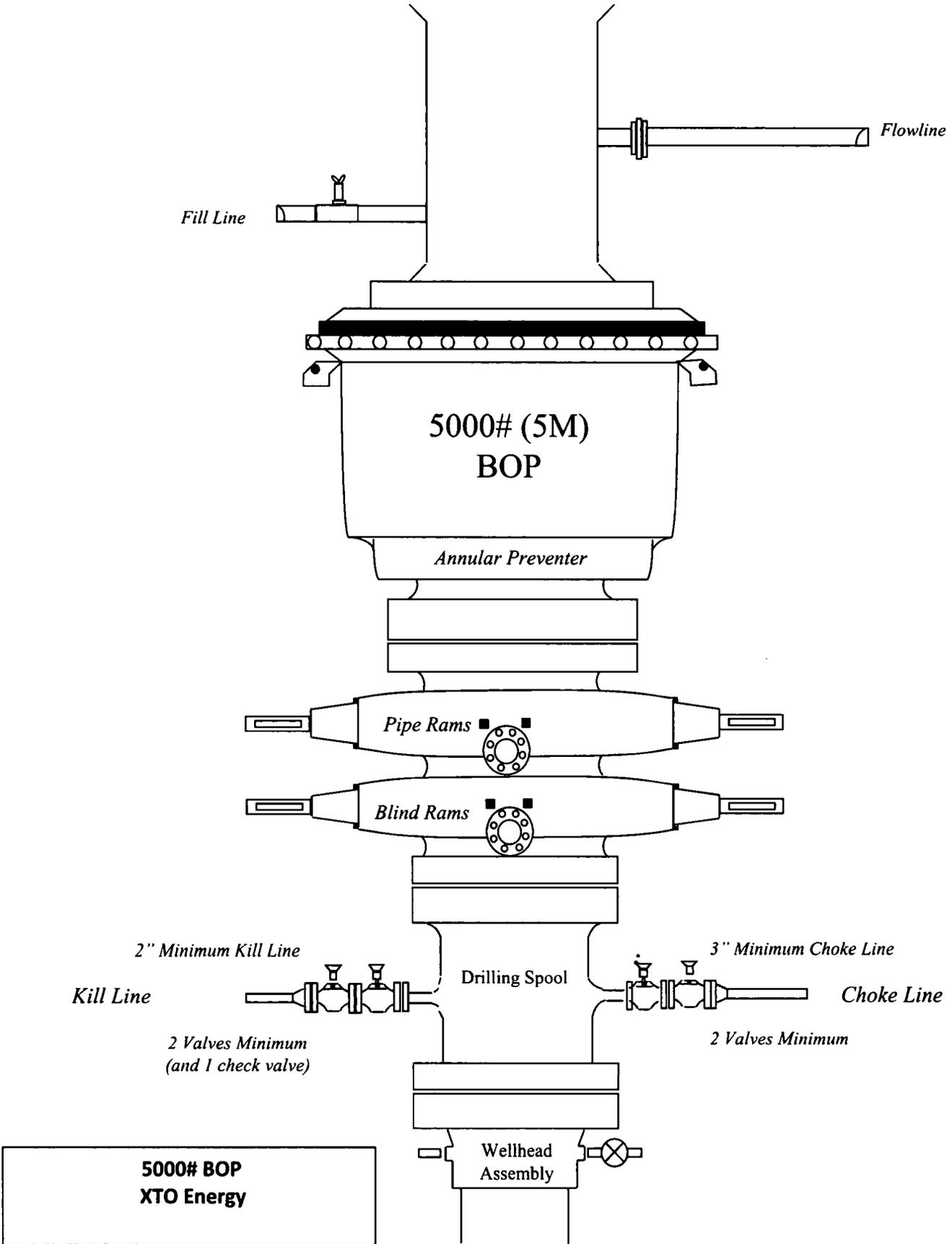
Other Variance attachment:

Ross_25_Fed_FH_20180917061034.pdf



**Drilling Operations
Choke Manifold
5M Service**

5M Choke Manifold Diagram
XTO Energy



Fill Line

Flowline

5000# (5M)
BOP

Annular Preventer

Pipe Rams

Blind Rams

Drilling Spool

Wellhead
Assembly

2" Minimum Kill Line
Kill Line

2 Valves Minimum
(and 1 check valve)

3" Minimum Choke Line
Choke Line

2 Valves Minimum

5000# BOP
XTO Energy

Ross Draw 25 Federal WX #22H

Casing Design

| Hole Size | Depth | OD Csg | Weight | Collar | Grade | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|----------------|---------|--------|--------|-------|----------|----------|-------------|------------|
| 17-1/2" | 0' - 330' | 13-3/8" | 48 | STC | H-40 | New | 1.80 | 5.10 | 20.33 |
| 12-1/4" | 0' - 3090' | 9-5/8" | 36 | LTC | J-55 | New | 1.31 | 2.08 | 4.07 |
| 8-3/4" | 0' - 10300' | 7" | 29 | LTC | P-110 | New | 1.18 | 1.73 | 2.67 |
| 6-1/8" | 9642' - 16988' | 4-1/2" | 13.5 | BTC | P-110 | New | 1.31 | 2.55 | 2.44 |

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 9-5/8" & 4-1/2" Collapse analyzed using 50% evacuation based on regional experience.
- 4-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 5M top flange

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

Ross Draw 25 Federal WX #22H

Casing Design

| Hole Size | Depth | OD Csg | Weight | Collar | Grade | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|----------------|---------|--------|--------|-------|----------|-------------|----------------|------------|
| 17-1/2" | 0' - 330' | 13-3/8" | 48 | STC | H-40 | New | 1.80 | 5.10 | 20.33 |
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Ross Draw 25 Federal WX #22H

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Ross Draw 25 Federal WX #22H

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|-----------|----------------|---------|--------|--------|-------|----------|----------|-------------|------------|
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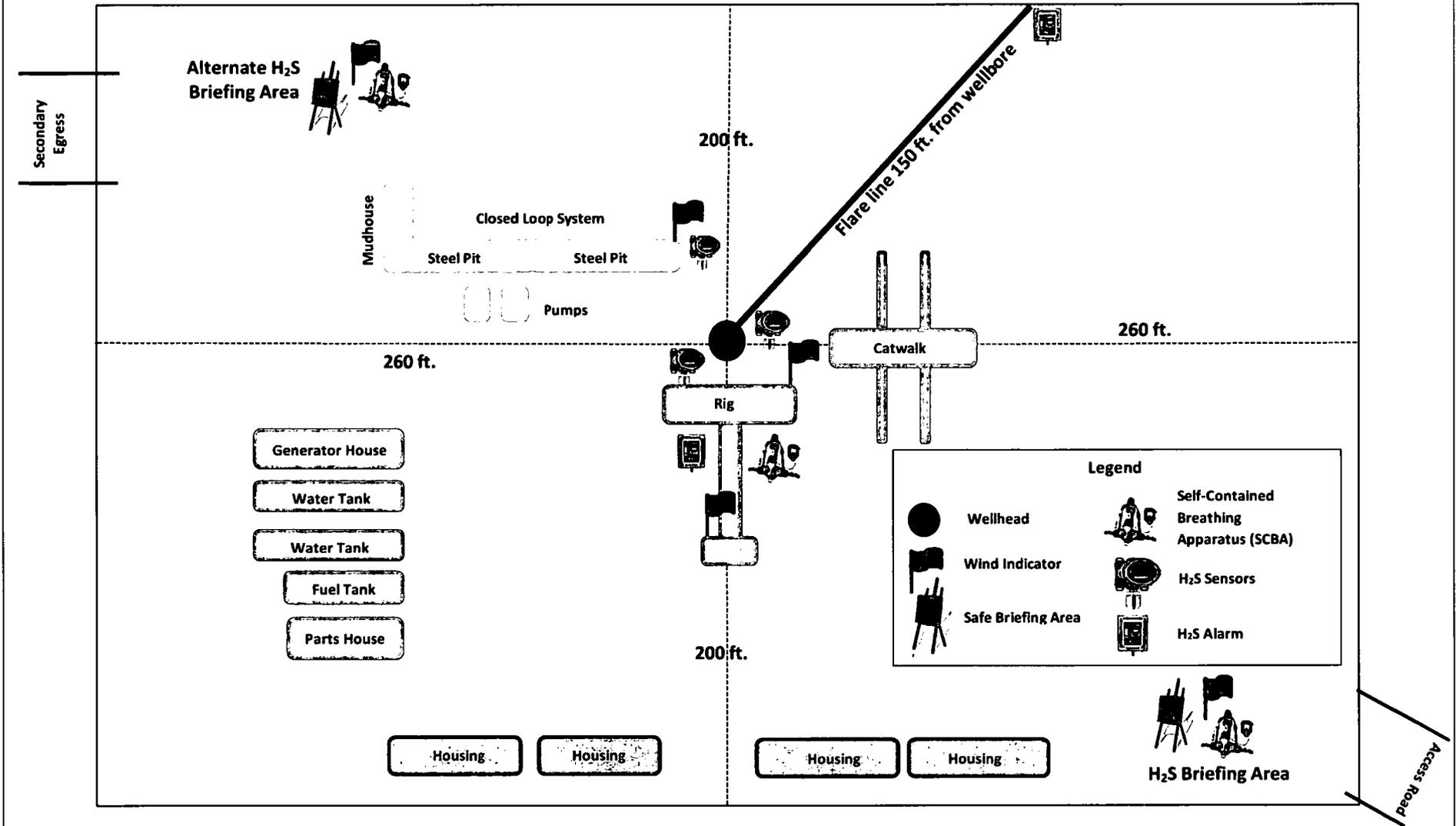
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↑
S
↓

↙
Prevailing Winds
Direction SW

H₂S Briefing Areas and Alarm Locations





HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

| Common Name | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|------------------|------------------|------------------|-----------------|-----------------|----------------------|
| Hydrogen Sulfide | H ₂ S | 1.189 Air = 1 | 10 ppm | 100 ppm/hr | 600 ppm |
| Sulfur Dioxide | SO ₂ | 2.21 Air = 1 | 2 ppm | N/A | 1000 ppm |

Contacting Authorities

XTO Energy Inc's personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

EUNICE OFFICE – EDDY & LEA COUNTIES

EMSU @ Oil Center, NM, 8/10ths mile west of Hwy 8 on Hwy 175
Eunice, NM

575-394-2089

XTO ENERGY INC PERSONNEL:

| | |
|-------------------------------------|--------------|
| Weston Turner, Drilling Engineer | 817-201-6812 |
| Bob Chance, Drilling Superintendent | 432-296-3926 |
| Jeff Raines, Construction Foreman | 432-557-3159 |
| Dudley McMinn, EH & S Manager | 432-557-7976 |
| Rick Wilson, Production Foreman | 575-441-1147 |

SHERIFF DEPARTMENTS:

| | |
|-------------|--------------|
| Eddy County | 575-887-7551 |
| Lea County | 575-396-3611 |

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

| | |
|-----------|--------------|
| | 911 |
| Carlsbad | 575-885-2111 |
| Eunice | 575-394-2111 |
| Hobbs | 575-397-9308 |
| Jal | 575-395-2221 |
| Lovington | 575-396-2359 |

HOSPITALS:

| | |
|-----------------------------|--------------|
| | 911 |
| Carlsbad Medical Emergency | 575-885-2111 |
| Eunice Medical Emergency | 575-394-2112 |
| Hobbs Medical Emergency | 575-397-9308 |
| Jal Medical Emergency | 575-395-2221 |
| Lovington Medical Emergency | 575-396-2359 |

AGENT NOTIFICATIONS:

| | |
|--------------------------------------|--------------|
| Bureau of Land Management | 575-393-3612 |
| New Mexico Oil Conservation Division | 575-393-6161 |
| Mosaic Potash - Carlsbad | 575-887-2871 |

CONTRACTORS:

| | |
|--------------------------------------|--------------|
| ABC Rental – Light Towers | 575-394-3155 |
| Bulldog Services – Trucking/Forklift | 575-391-8543 |
| Champion – Chemical | 575-393-7726 |
| Indian Fire & Safety | 575-393-3093 |
| Key – Dirt Contractor | 575-393-3180 |
| Key Tools – Light Towers | 575-393-2415 |
| Sweatt – Dirt Contractor | 575-397-4541 |
| RWI – Contract Gang | 575-393-5305 |



April 26, 2015

Stephanie Rabadue
XTO Energy Inc.
500 W. Illinois St Ste 100
Midland, TX 79701
432-620-6714
stephanie_rabadue@xtoenergy.com

Bureau of Land Management
620 E. Greene
Carlsbad, NM 88220
575-887-6544

Dear Sirs:

XTO Energy Inc. does not anticipate encountering H₂S while drilling the Ross Draw 25 #5H located in Section 25, T26S, R29E, in Lea County, New Mexico. As a precaution, I have attached an H₂S contingency plan along with a gas analysis of our well stream. If you need anything further, please contact me at the telephone number or email listed above.

Thank you,

Stephanie Rabadue
Regulatory Analyst



XTO Energy

**Eddy County, NM (NAD-27)
Ross Draw 25 Fed
WX #22H**

OH

Plan: PERMIT

Standard Planning Report

22 December, 2017



Project: Eddy County, NM (NAD-27)
 Well: WX #22H
 Wellbore: OH
 Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: GRS 80
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: WX #22H
 Rig Name: 2888.00batt
 RKB = 27 @ 2888.00batt
 Ground Level: 2959.00
 +E/W 0.00
 -E/W 0.00
 +N/S 0.00
 -N/S 0.00
 Northing 371027.10
 Easting 622373.30
 Elevation 2959.00
 altitude 32.019453
 Longitude -103.936492

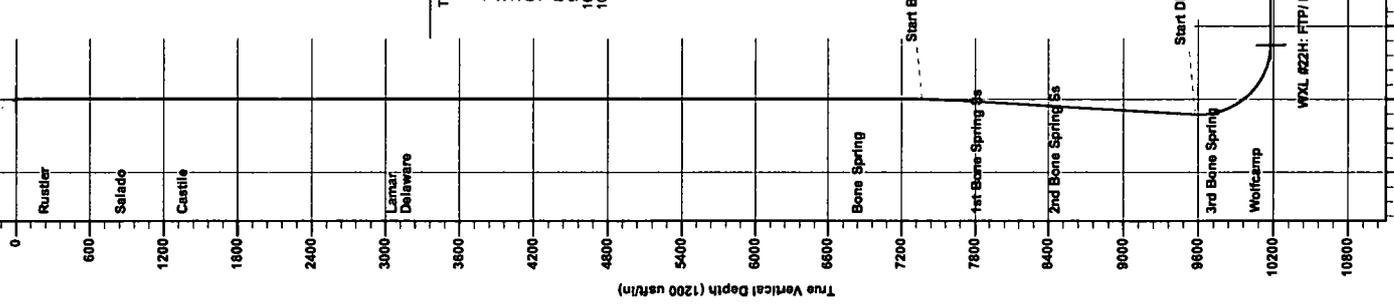
DESIGN TARGET DETAILS

| Name | TVD | +E/W | -E/W | +N/S | -N/S | Depth | Easting | Northing | Latitude | Longitude | Shape |
|---------------------------------------|----------|---------|---------|----------|----------|-------|-----------|-----------|-----------|-------------|-------|
| WX #22H: SHL (170' FNL/ 2070.6' FWL) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 622373.30 | 371027.10 | 32.019453 | -103.936492 | Point |
| WX #22H: FTP/LP | 10178.00 | -179.30 | -179.30 | -442.10 | -442.10 | 10178 | 622194.00 | 370995.00 | 32.019239 | -103.939076 | Point |
| WX #22H: PBHL (170' FSL/ 2190.3' FWL) | 10178.00 | -310.80 | -310.80 | -6913.10 | -6913.10 | 10178 | 622082.50 | 364114.00 | 32.000432 | -103.939076 | Point |

SECTION DETAILS

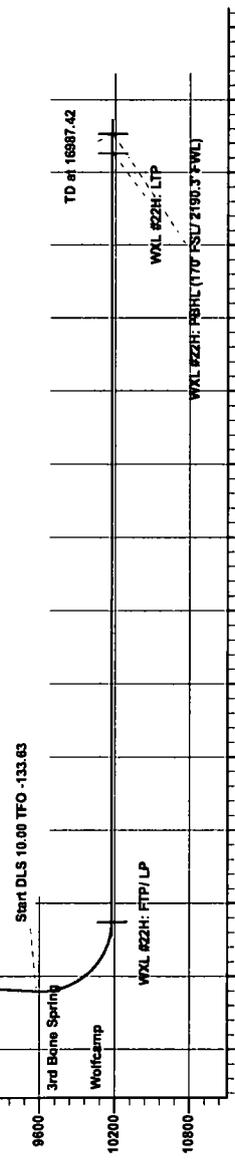
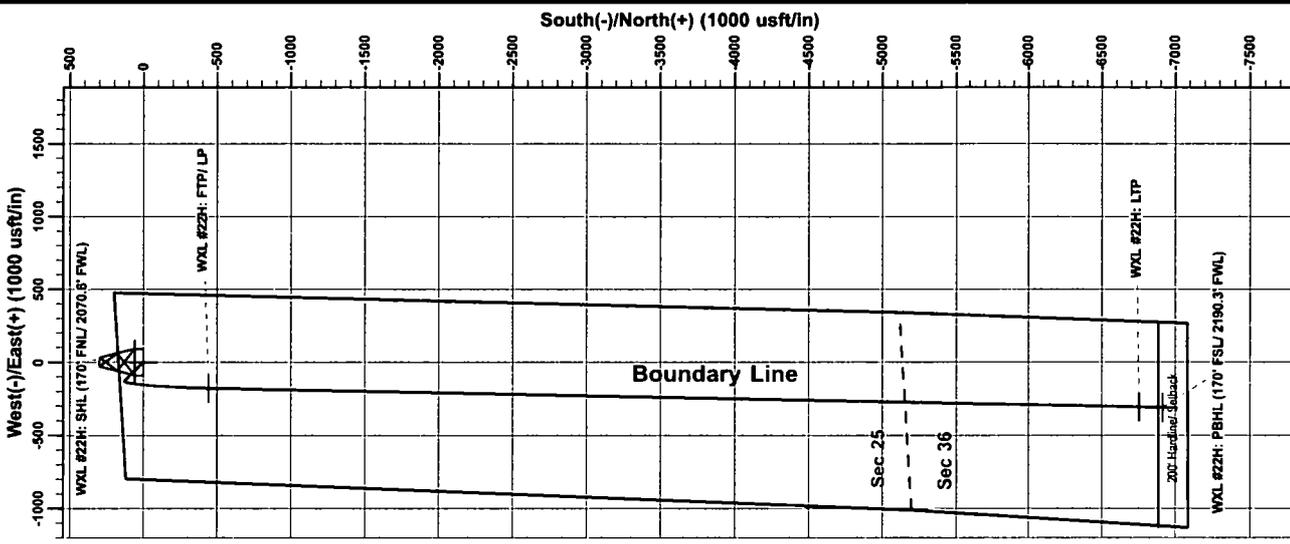
| Sec | ID | IC | AI | TVD | +E/W | -E/W | Dlog | TFac | VSect |
|-----|----------|-------|--------|----------|----------|---------|------|--------|---------|
| 2 | 7360.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 7608.99 | 5.00 | 314.80 | 7609.67 | 7.69 | -7.72 | 2.00 | 314.80 | -7.54 |
| 4 | 7651.05 | 0.00 | 314.80 | 8572.73 | 128.92 | -128.37 | 0.00 | 0.00 | -26.27 |
| 5 | 16521.39 | 80.00 | 181.16 | 10178.00 | -6753.10 | -307.55 | 0.00 | 0.00 | 6737.94 |
| 6 | 16827.39 | 80.00 | 181.16 | 10178.00 | -6913.10 | -310.80 | 0.00 | 0.00 | 6817.98 |

WX #22H: SHL (170' FNL/ 2070.6' FWL)



FORMATION TOP DETAILS

| Formation | TVD Path |
|--------------------|----------|
| Rustler | 293.00 |
| Salado | 914.00 |
| Castile | 1415.00 |
| Lamar | 3141.00 |
| Delaware | 3181.00 |
| Bone Spring | 6906.00 |
| 1st Bone Spring ss | 6576.00 |
| 2nd Bone Spring ss | 7609.67 |
| 3rd Bone Spring ss | 8572.73 |
| Wolfcamp | 10125.00 |
| Wolfcamp X | 10149.00 |



Vertical Section at 181.16° (1200 usft/in)

Note: All Plan details including boundary lines and offset well data is subject to customer approval.



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Ross Draw 25 Fed
 Well: WX #22H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well WX #22H
 TVD Reference: RKB = 27' @ 2986.00usft
 MD Reference: RKB = 27' @ 2986.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| 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 | Ross Draw 25 Fed | | | | |
| Site Position: | | Northing: | 371,373.50 usft | Latitude: | 32.020416 |
| From: | Map | Easting: | 621,274.60 usft | Longitude: | -103.942033 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.21 ° |

| | | | | | | |
|-----------------------------|--------------|---------------|----------------------------|-----------------|----------------------|---------------|
| Well | WX #22H | | | | | |
| Well Position | +N/-S | -346.40 usft | Northing: | 371,027.10 usft | Latitude: | 32.019453 |
| | +E/-W | 1,098.70 usft | Easting: | 622,373.30 usft | Longitude: | -103.938492 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 2,959.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 12/22/2017 | 7.05 | 59.81 | 47,728 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | PERMIT | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 181.16 |

| 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 | |
| 7,360.00 | 0.00 | 0.00 | 7,360.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,609.99 | 5.00 | 314.90 | 7,609.67 | 7.69 | -7.72 | 2.00 | 2.00 | 0.00 | 314.90 | |
| 9,580.55 | 5.00 | 314.90 | 9,572.73 | 128.92 | -129.37 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,515.09 | 90.00 | 181.16 | 10,179.00 | -442.10 | -179.30 | 10.00 | 9.10 | -14.31 | -133.63 | WXL #22H: FTP/ LI |
| 16,827.39 | 90.00 | 181.16 | 10,179.00 | -6,753.10 | -307.55 | 0.00 | 0.00 | 0.00 | 0.00 | WXL #22H: LTP |
| 16,987.42 | 90.00 | 181.16 | 10,179.00 | -6,913.10 | -310.80 | 0.00 | 0.00 | 0.00 | 0.00 | WXL #22H: PBHL (|



Database: EDM 5000.1 Single User Db
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 Site: Ross Draw 25 Fed
 Well: WX #22H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well WX #22H
 TVD Reference: RKB = 27' @ 2986.00usft
 MD Reference: RKB = 27' @ 2986.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 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 |
| 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 |
| 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 |
| 3,100.00 | 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 |
| 3,300.00 | 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 |
| 4,200.00 | 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 |
| 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 |



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Ross Draw 25 Fed
Well: WX #22H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well WX #22H
TVD Reference: RKB = 27' @ 2986.00usft
MD Reference: RKB = 27' @ 2986.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 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 |
| 5,700.00 | 0.00 | 0.00 | 5,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 6,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 7,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 7,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 7,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 7,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,360.00 | 0.00 | 0.00 | 7,360.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.80 | 314.90 | 7,400.00 | 0.20 | -0.20 | -0.19 | 2.00 | 2.00 | 0.00 |
| 7,500.00 | 2.80 | 314.90 | 7,499.94 | 2.41 | -2.42 | -2.36 | 2.00 | 2.00 | 0.00 |
| 7,609.99 | 5.00 | 314.90 | 7,609.67 | 7.69 | -7.72 | -7.54 | 2.00 | 2.00 | 0.00 |
| 7,700.00 | 5.00 | 314.90 | 7,699.34 | 13.23 | -13.28 | -12.96 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 5.00 | 314.90 | 7,798.96 | 19.38 | -19.45 | -18.99 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 5.00 | 314.90 | 7,898.58 | 25.54 | -25.62 | -25.01 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 5.00 | 314.90 | 7,998.20 | 31.69 | -31.80 | -31.04 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 5.00 | 314.90 | 8,097.82 | 37.84 | -37.97 | -37.06 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 5.00 | 314.90 | 8,197.44 | 43.99 | -44.14 | -43.09 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 5.00 | 314.90 | 8,297.06 | 50.14 | -50.32 | -49.11 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 5.00 | 314.90 | 8,396.68 | 56.29 | -56.49 | -55.14 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 5.00 | 314.90 | 8,496.30 | 62.45 | -62.66 | -61.17 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 5.00 | 314.90 | 8,595.92 | 68.60 | -68.84 | -67.19 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 5.00 | 314.90 | 8,695.54 | 74.75 | -75.01 | -73.22 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 5.00 | 314.90 | 8,795.16 | 80.90 | -81.18 | -79.24 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 5.00 | 314.90 | 8,894.77 | 87.05 | -87.36 | -85.27 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 5.00 | 314.90 | 8,994.39 | 93.21 | -93.53 | -91.29 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 5.00 | 314.90 | 9,094.01 | 99.36 | -99.70 | -97.32 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 5.00 | 314.90 | 9,193.63 | 105.51 | -105.87 | -103.34 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 5.00 | 314.90 | 9,293.25 | 111.66 | -112.05 | -109.37 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 5.00 | 314.90 | 9,392.87 | 117.81 | -118.22 | -115.40 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 5.00 | 314.90 | 9,492.49 | 123.97 | -124.39 | -121.42 | 0.00 | 0.00 | 0.00 |
| 9,580.55 | 5.00 | 314.90 | 9,572.73 | 128.92 | -129.37 | -126.27 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 3.92 | 293.83 | 9,592.13 | 129.79 | -130.58 | -127.12 | 10.00 | -5.56 | -108.33 |
| 9,650.00 | 5.03 | 227.12 | 9,642.00 | 128.99 | -133.74 | -126.25 | 10.00 | 2.21 | -133.41 |
| 9,700.00 | 9.22 | 204.07 | 9,691.62 | 123.83 | -136.99 | -121.04 | 10.00 | 8.40 | -46.10 |
| 9,750.00 | 13.96 | 195.90 | 9,740.59 | 114.37 | -140.27 | -111.51 | 10.00 | 9.47 | -16.35 |
| 9,800.00 | 18.83 | 191.85 | 9,788.54 | 100.66 | -143.58 | -97.74 | 10.00 | 9.74 | -8.10 |
| 9,850.00 | 23.75 | 189.42 | 9,835.11 | 82.82 | -146.89 | -79.83 | 10.00 | 9.85 | -4.85 |
| 9,900.00 | 28.70 | 187.79 | 9,879.95 | 60.98 | -150.17 | -57.93 | 10.00 | 9.90 | -3.26 |
| 9,950.00 | 33.66 | 186.61 | 9,922.72 | 35.30 | -153.40 | -32.19 | 10.00 | 9.93 | -2.37 |
| 10,000.00 | 38.63 | 185.70 | 9,963.08 | 5.99 | -156.54 | -2.82 | 10.00 | 9.94 | -1.82 |
| 10,050.00 | 43.61 | 184.97 | 10,000.73 | -26.75 | -159.59 | 29.97 | 10.00 | 9.95 | -1.46 |



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Ross Draw 25 Fed
 Well: WX #22H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well WX #22H
 TVD Reference: RKB = 27' @ 2986.00usft
 MD Reference: RKB = 27' @ 2986.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,100.00 | 48.59 | 184.36 | 10,035.39 | -62.64 | -162.51 | 65.92 | 10.00 | 9.96 | -1.22 |
| 10,150.00 | 53.58 | 183.84 | 10,066.79 | -101.44 | -165.28 | 104.76 | 10.00 | 9.97 | -1.04 |
| 10,200.00 | 58.56 | 183.38 | 10,094.69 | -142.83 | -167.89 | 146.19 | 10.00 | 9.97 | -0.92 |
| 10,250.00 | 63.55 | 182.97 | 10,118.88 | -186.50 | -170.31 | 189.91 | 10.00 | 9.97 | -0.82 |
| 10,300.00 | 68.54 | 182.59 | 10,139.18 | -232.12 | -172.52 | 235.57 | 10.00 | 9.98 | -0.76 |
| 10,350.00 | 73.53 | 182.24 | 10,155.43 | -279.35 | -174.50 | 282.83 | 10.00 | 9.98 | -0.71 |
| 10,400.00 | 78.51 | 181.90 | 10,167.50 | -327.82 | -176.25 | 331.32 | 10.00 | 9.98 | -0.67 |
| 10,450.00 | 83.50 | 181.58 | 10,175.31 | -377.17 | -177.75 | 380.69 | 10.00 | 9.98 | -0.65 |
| 10,500.00 | 88.49 | 181.26 | 10,178.80 | -427.02 | -178.98 | 430.55 | 10.00 | 9.98 | -0.63 |
| 10,515.09 | 90.00 | 181.16 | 10,179.00 | -442.10 | -179.30 | 445.64 | 10.00 | 9.98 | -0.63 |
| 10,600.00 | 90.00 | 181.16 | 10,179.00 | -526.99 | -181.03 | 530.55 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 181.16 | 10,179.00 | -626.97 | -183.06 | 630.55 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 181.16 | 10,179.00 | -726.95 | -185.09 | 730.55 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 181.16 | 10,179.00 | -826.93 | -187.12 | 830.55 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.00 | 181.16 | 10,179.00 | -926.91 | -189.15 | 930.55 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 181.16 | 10,179.00 | -1,026.89 | -191.18 | 1,030.55 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 181.16 | 10,179.00 | -1,126.87 | -193.22 | 1,130.55 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.00 | 181.16 | 10,179.00 | -1,226.85 | -195.25 | 1,230.55 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.00 | 181.16 | 10,179.00 | -1,326.83 | -197.28 | 1,330.55 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.00 | 181.16 | 10,179.00 | -1,426.81 | -199.31 | 1,430.55 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.00 | 181.16 | 10,179.00 | -1,526.79 | -201.34 | 1,530.55 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 181.16 | 10,179.00 | -1,626.77 | -203.37 | 1,630.55 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 181.16 | 10,179.00 | -1,726.75 | -205.41 | 1,730.55 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 181.16 | 10,179.00 | -1,826.73 | -207.44 | 1,830.55 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.00 | 181.16 | 10,179.00 | -1,926.71 | -209.47 | 1,930.55 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 181.16 | 10,179.00 | -2,026.68 | -211.50 | 2,030.55 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 181.16 | 10,179.00 | -2,126.66 | -213.53 | 2,130.55 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 181.16 | 10,179.00 | -2,226.64 | -215.56 | 2,230.55 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 181.16 | 10,179.00 | -2,326.62 | -217.60 | 2,330.55 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 181.16 | 10,179.00 | -2,426.60 | -219.63 | 2,430.55 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 181.16 | 10,179.00 | -2,526.58 | -221.66 | 2,530.55 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 181.16 | 10,179.00 | -2,626.56 | -223.69 | 2,630.55 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 181.16 | 10,179.00 | -2,726.54 | -225.72 | 2,730.55 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 181.16 | 10,179.00 | -2,826.52 | -227.75 | 2,830.55 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 181.16 | 10,179.00 | -2,926.50 | -229.79 | 2,930.55 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 181.16 | 10,179.00 | -3,026.48 | -231.82 | 3,030.55 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 181.16 | 10,179.00 | -3,126.46 | -233.85 | 3,130.55 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 181.16 | 10,179.00 | -3,226.44 | -235.88 | 3,230.55 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 181.16 | 10,179.00 | -3,326.42 | -237.91 | 3,330.55 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 181.16 | 10,179.00 | -3,426.40 | -239.95 | 3,430.55 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 181.16 | 10,179.00 | -3,526.38 | -241.98 | 3,530.55 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 181.16 | 10,179.00 | -3,626.35 | -244.01 | 3,630.55 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 181.16 | 10,179.00 | -3,726.33 | -246.04 | 3,730.55 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 181.16 | 10,179.00 | -3,826.31 | -248.07 | 3,830.55 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 181.16 | 10,179.00 | -3,926.29 | -250.10 | 3,930.55 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 181.16 | 10,179.00 | -4,026.27 | -252.14 | 4,030.55 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 181.16 | 10,179.00 | -4,126.25 | -254.17 | 4,130.55 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 181.16 | 10,179.00 | -4,226.23 | -256.20 | 4,230.55 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 181.16 | 10,179.00 | -4,326.21 | -258.23 | 4,330.55 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 181.16 | 10,179.00 | -4,426.19 | -260.26 | 4,430.55 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 181.16 | 10,179.00 | -4,526.17 | -262.29 | 4,530.55 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 181.16 | 10,179.00 | -4,626.15 | -264.33 | 4,630.55 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 181.16 | 10,179.00 | -4,726.13 | -266.36 | 4,730.55 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 181.16 | 10,179.00 | -4,826.11 | -268.39 | 4,830.55 | 0.00 | 0.00 | 0.00 |



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Ross Draw 25 Fed
 Well: WX #22H
 Wellbore: OH
 Design: PERMIT

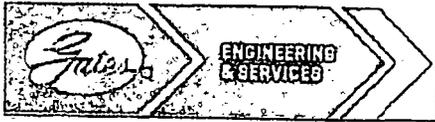
Local Co-ordinate Reference: Well WX #22H
 TVD Reference: RKB = 27' @ 2986.00usft
 MD Reference: RKB = 27' @ 2986.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 15,000.00 | 90.00 | 181.16 | 10,179.00 | -4,926.09 | -270.42 | 4,930.55 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 181.16 | 10,179.00 | -5,026.07 | -272.45 | 5,030.55 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 181.16 | 10,179.00 | -5,126.05 | -274.48 | 5,130.55 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 181.16 | 10,179.00 | -5,226.02 | -276.52 | 5,230.55 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 181.16 | 10,179.00 | -5,326.00 | -278.55 | 5,330.55 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 181.16 | 10,179.00 | -5,425.98 | -280.58 | 5,430.55 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 181.16 | 10,179.00 | -5,525.96 | -282.61 | 5,530.55 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 181.16 | 10,179.00 | -5,625.94 | -284.64 | 5,630.55 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 181.16 | 10,179.00 | -5,725.92 | -286.67 | 5,730.55 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 181.16 | 10,179.00 | -5,825.90 | -288.71 | 5,830.55 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 181.16 | 10,179.00 | -5,925.88 | -290.74 | 5,930.55 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 181.16 | 10,179.00 | -6,025.86 | -292.77 | 6,030.55 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 181.16 | 10,179.00 | -6,125.84 | -294.80 | 6,130.55 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 181.16 | 10,179.00 | -6,225.82 | -296.83 | 6,230.55 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.00 | 181.16 | 10,179.00 | -6,325.80 | -298.87 | 6,330.55 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.00 | 181.16 | 10,179.00 | -6,425.78 | -300.90 | 6,430.55 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.00 | 181.16 | 10,179.00 | -6,525.76 | -302.93 | 6,530.55 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.00 | 181.16 | 10,179.00 | -6,625.74 | -304.96 | 6,630.55 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 90.00 | 181.16 | 10,179.00 | -6,725.71 | -306.99 | 6,730.55 | 0.00 | 0.00 | 0.00 |
| 16,827.39 | 90.00 | 181.16 | 10,179.00 | -6,753.10 | -307.55 | 6,757.94 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 90.00 | 181.16 | 10,179.00 | -6,825.69 | -309.02 | 6,830.55 | 0.00 | 0.00 | 0.00 |
| 16,987.42 | 90.00 | 181.16 | 10,179.00 | -6,913.10 | -310.80 | 6,917.98 | 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 |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| WXL #22H: SHL (170 - hit/miss target - Shape - Point | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 371,027.10 | 622,373.30 | 32.019453 | -103.938492 |
| WXL #22H: FTP/ LP - plan hits target center - Point | 0.00 | 0.00 | 10,179.00 | -442.10 | -179.30 | 370,585.00 | 622,194.00 | 32.018240 | -103.939076 |
| WXL #22H: LTP - plan misses target center by 0.05usft at 16827.39usft MD (10179.00 TVD, -6753.10 N, -307.55 E) - Point | 0.00 | 0.00 | 10,179.00 | -6,753.10 | -307.60 | 364,274.00 | 622,065.70 | 32.000892 | -103.939564 |
| WXL #22H: PBHL (17 - plan hits target center - Point | 0.00 | 0.00 | 10,179.00 | -6,913.10 | -310.80 | 364,114.00 | 622,062.50 | 32.000452 | -103.939576 |



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

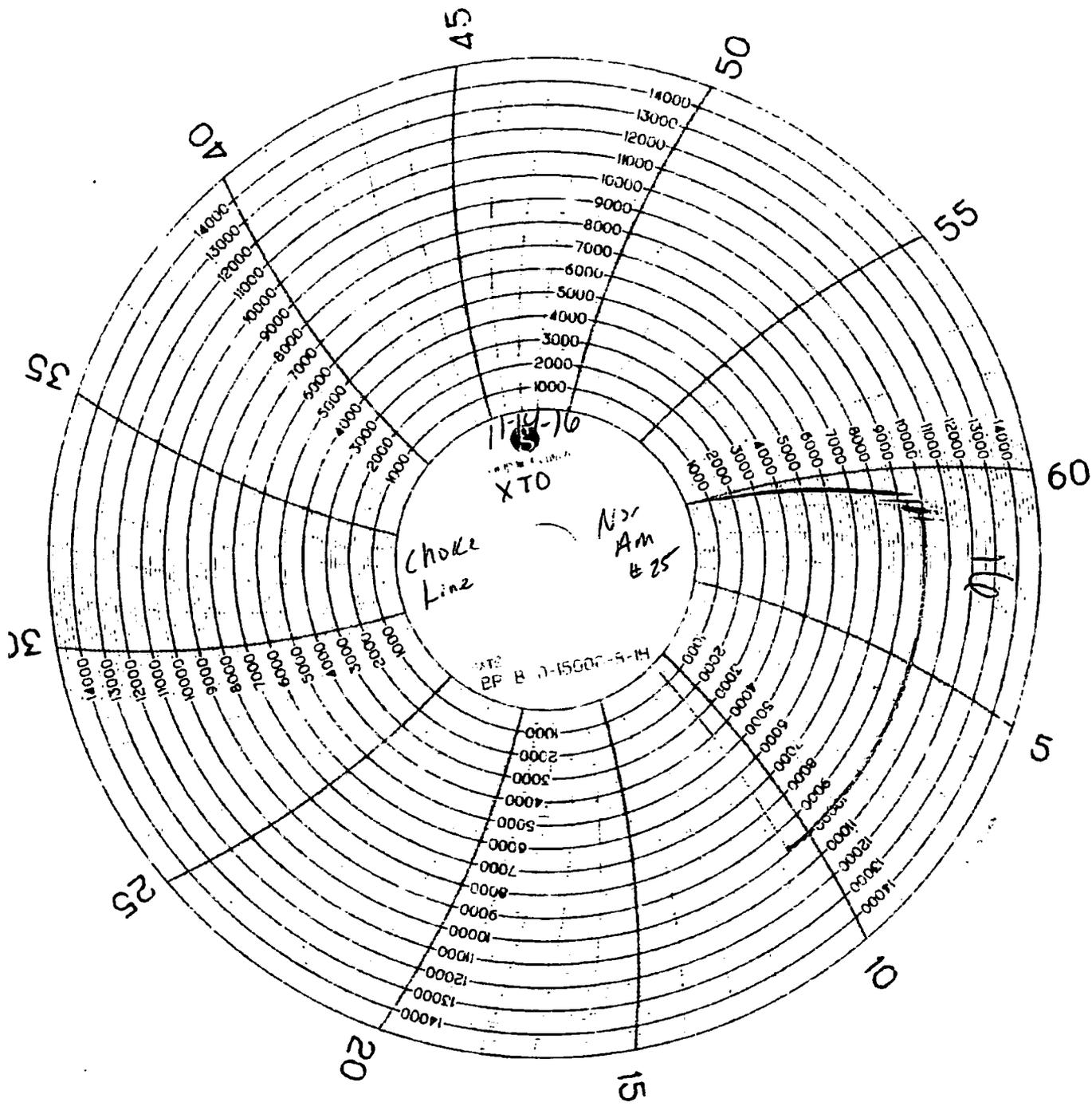
PHONE: 361-887-9807
 FAX: 361-887-0812
 EMAIL: crpe@s@gates.com
 WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

| | | | |
|----------------------|-----------------------------|------------------|------------------------|
| Customer : | AUSTIN DISTRIBUTING | Test Date: | 6/8/2014 |
| Customer Ref. : | PENDING | Hose Serial No.: | D-060814-1 |
| Invoice No. : | 201709 | Created By: | NORMA |
| Product Description: | FD3.0+2.0R41/16.5KFLGE/E LE | | |
| End Fitting 1 : | 4 1/16 in.5K FLG | End Fitting 2 : | 4 1/16 in.5K FLG |
| Gates Part No. : | 4774-6001 | Assembly Code : | L33090011S13D-060814-1 |
| Working Pressure : | 5,000 PSI | 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 | Technical Supervisor : | PRODUCTION |
| Date : | 6/8/2014 | Date : | 6/8/2014 |
| Signature : | <i>[Signature]</i> | Signature : | <i>[Signature]</i> |



NOON

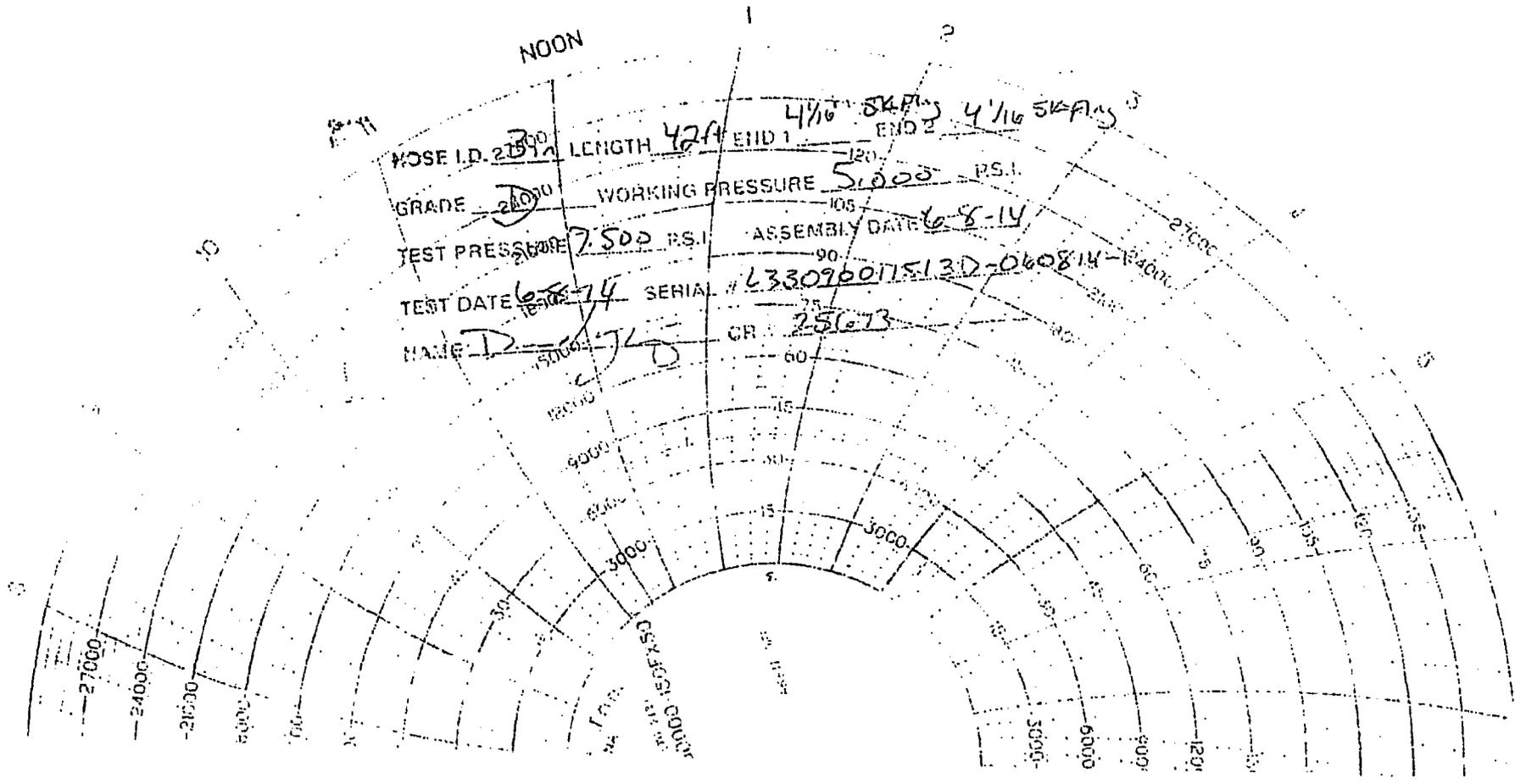
NOSE I.D. 2 1/2" LENGTH 42" END 1 4 1/16" SKAF 3 END 2 4 1/16" SKAF 3

GRADE 24000 WORKING PRESSURE 5000 PS.I.

TEST PRESSURE 7500 PS.I. ASSEMBLY DATE 6-8-14

TEST DATE 6-8-14 SERIAL # 633096071513D-060814-1400

NAME D. J. L. CR. 2563



CS-150000000



APD ID: 10400034474

Submission Date: 09/22/2018

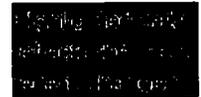
Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Ross_25_Fed_22H_ERoad_20180922101704.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:

Ross_25_Fed_NRoad1_20181210072911.pdf

New road type: RESOURCE

Length (ft.): [REDACTED] 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: ROSS DRAW 25 FED WX

Well Number: 22H

Access road engineering design? NO

Access road engineering design attachment:

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 Ross Draw 25 Federal development area is accessed from the intersection of US Hwy 285 and Co. Rd. #725 (Longhorn Rd), follow meandering county rd. 3725 approximately 10.2 miles. Turn right and go South approximately 0.9 miles to proposed road survey. Follow road survey West approximately 937 feet to the location. The location is to the Northwest.

Number of access turnouts:

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 join 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 join 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

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Ross_25_Fed_1_Mile_20180912131640.pdf

Existing Wells description:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production Facilities. There is one Central Tank Battery existing on the Ross Draw 25 Federal lease (Ross 25 Fed 100) constructed and in operation. Due to the additional wells, a second 500'x500' (5.739 acres) CTB was staked and onsited with the BLM for construction and use as a Central Tank Battery (Ross 25 Fed 200). The proposed pad is located in the NWNW, Section 25-26S-29E, Eddy County, NM. Only the area necessary to maintain facilities will be disturbed. A 3160-5 sundry notification will be submitted after construction possessing a site-security diagram and layout of the facility with associated equipment. Flowlines. In the event the wells are found productive, 9-6" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be buried within proposed lease road corridors from the proposed wells to the Ross 25 Fed 100 CTB and Ross 25 Fed 200 CTB where the oil, gas, and water will be metered and appropriately separated. An additional 9-6" high pressure gas lines will be buried within the proposed lease road corridors for gas lift. The distance of proposed flowlines per well will be 1957.7' 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. A plat of the proposed flowline route for the lease is attached. Gas Pipeline. A gas purchaser has been identified. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands to the proposed Ross 25 Fed CTB 200. Disposal Facilities. Produced water will be hauled from location to a commercial 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 Ross Draw 25 Federal project. The flare stacks will be 50'x50' and located on the proposed 500'x500' Ross 25 Fed 200 CTB. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes. 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. No additional OHE is required for the Ross Draw 25 Federal project. Electrical is not included in this request.

Production Facilities map:

Ross_25_Fed_New_CTB_20180922101758.pdf

Ross_25_Fed_NFL2_20181210072842.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,
INTERMEDIATE/PRODUCTION CASING, SURFACE CASING
Describe type:

Source latitude: 32.190613

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source type: GW WELL

Source longitude: -104.05808

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Water source volume (barrels): 30000

Source volume (acre-feet): 3.866793

Source volume (gal): 1260000

Water source use type: STIMULATION

Water source type: GW WELL

Describe type:

Source latitude: 32.192104

Source longitude: -104.06197

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 50000

Source volume (acre-feet): 6.444655

Source volume (gal): 2100000

Water source and transportation map:

Ross_25_Fed_22H_Wtr_20180922101930.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 Water for drilling, completion and dust control will be supplied to SB Oilfield Services for sale to XTO Energy, Inc from the following two sources (see "NMWaterDoc"): 1st Well: C3423 Section 26-T24S-R28E Latitude: 32.190613 Longitude: -104.05808 2nd Well: C3358 Section 26-T24S-R28E Latitude: 32.192104 Longitude: -104.06197 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 ~1.5bbbls 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. A fresh water frac pond is anticipated after the wells are drilled. The maximum size anticipated for 24 wells is 250'x250'x15' with a HDPE 30mil liner. The potential location of the frac pond is unknown at this time but will be staked with a BLM representative present in order to make certain all wildlife habitat and hydrological areas are protected with minimal environmental impact.
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:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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

Construction Materials description: a. Pit 1: Federal Caliche Pit, Section 25-26S-29E b. Pit 2: Federal Caliche Pit, Section 24-26S-29E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

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

Disposal type description:

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

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 and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Safe containmant attachment:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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 Cutting: The well will be drilled utilizing the closed loop mud system. Drill cuttings will be held in roll off style mud boxes and taken to a 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?

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:

Ross_25_Fed_22H_Well_20181210072954.pdf

Comments: Pad Expansion of Previously Approved APD.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: ROSS DRAW 25

Multiple Well Pad Number: 3

Recontouring attachment:

Ross_Draw_25_Int_Rec_P3_1_20181210074553.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

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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): 5.073 | Well pad interim reclamation (acres): 1.303 | Well pad long term disturbance (acres): 3.77 |
| Road proposed disturbance (acres): 1.18 | Road interim reclamation (acres): 0 | Road long term disturbance (acres): 1.18 |
| Powerline proposed disturbance (acres): 0 | Powerline interim reclamation (acres): 0 | Powerline long term disturbance (acres): 0 |
| Pipeline proposed disturbance (acres): 0 | Pipeline interim reclamation (acres): 0 | Pipeline long term disturbance (acres): 0 |
| Other proposed disturbance (acres): 0 | Other interim reclamation (acres): 0 | Other long term disturbance (acres): 0 |
| Total proposed disturbance: 6.253 | Total interim reclamation: 1.303 | Total long term disturbance: 4.95 |

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: 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: 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: 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: 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

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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

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 type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Jeff

Last Name: Raines

Phone: (432)620-4349

Email: jeff_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

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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 mud system will meet the NMOCD requirements 19, 15, and 17.

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: OTHER

Describe: Facilities and 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:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

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:

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:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 25 FED WX

Well Number: 22H

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information:

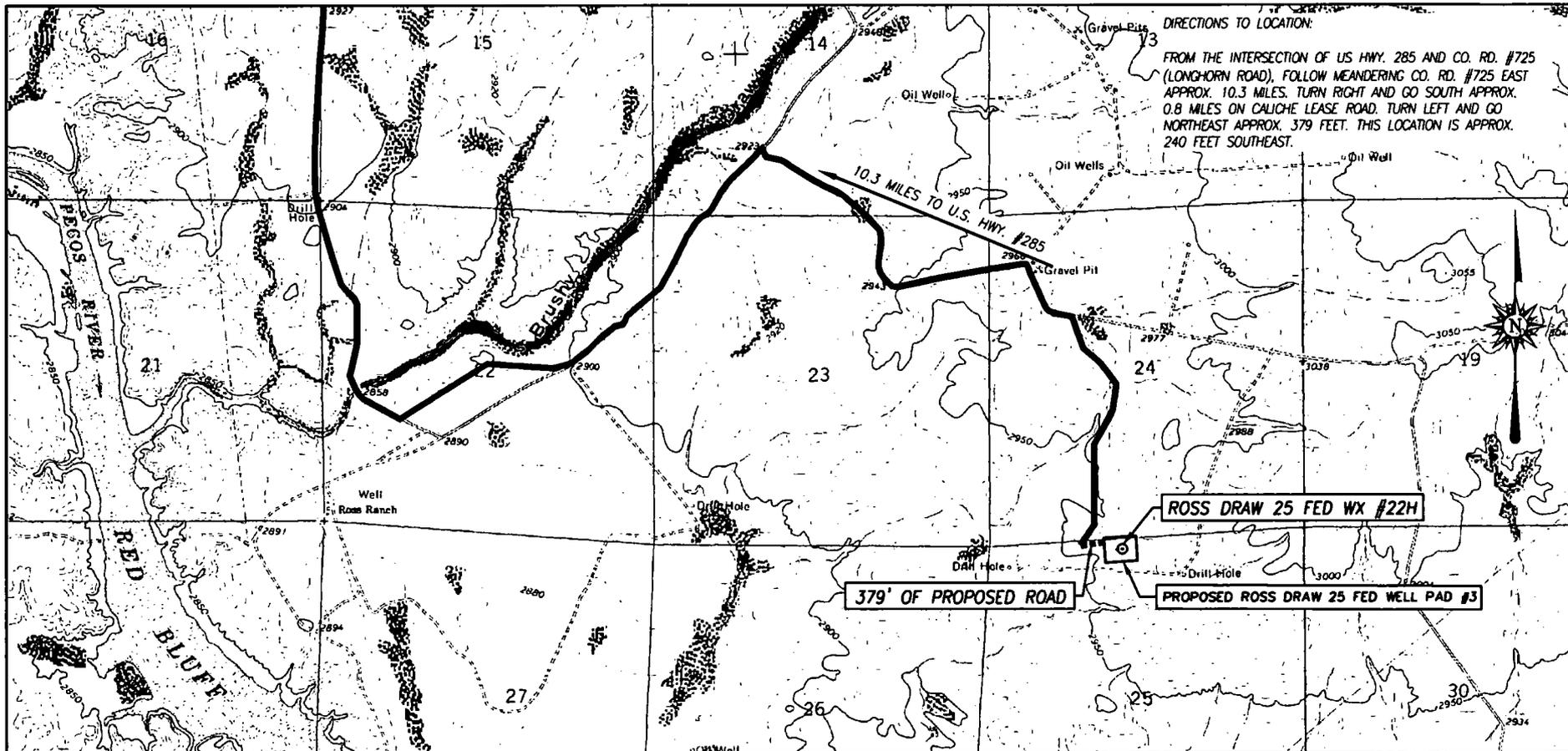
Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Ross_25_Fed_SUPO2_20181210073105.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP



DIRECTIONS TO LOCATION:
 FROM THE INTERSECTION OF U.S. HWY. 285 AND CO. RD. #725 (LONGHORN ROAD), FOLLOW MEANDERING CO. RD. #725 EAST APPROX. 10.3 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.8 MILES ON CALICHE LEASE ROAD. TURN LEFT AND GO NORTHEAST APPROX. 379 FEET. THIS LOCATION IS APPROX. 240 FEET SOUTHEAST.

10.3 MILES TO U.S. HWY. #285

ROSS DRAW 25 FED WX #22H

379' OF PROPOSED ROAD

PROPOSED ROSS DRAW 25 FED WELL PAD #3

SEC. 25 TWP. 26-S RGE. 29-E
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 170' FNL & 2070.6' FWL
 ELEVATION 2959'
 OPERATOR XTO ENERGY
 LEASE ROSS DRAW 25 FED WX
 U.S.G.S. TOPOGRAPHIC MAP
 ROSS RANCH, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:
 ROSS RANCH, N.M. - 10'



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 TBPLS# 10021000



1/4 CORNER
GLO "1940" B.C.

N0000650"E 2678.9'

NB472'43"E
1180.9' (TE)

23

26

GLO "1940" B.C.

N2728'00"E
3013.7' (TE)

N03107'36"E 2663.2'

1/4 CORNER
GLO "1940" B.C.

USA

USA

LINE TABLE

| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| L1 | N33°51'37"W | 125.6' |
| L2 | N80°44'31"E | 379.1' |
| L3 | N36°28'58"E | 188.9' |
| L4 | N86°23'33"E | 540.0' |
| L5 | S29°36'38"E | 484.1' |

1/4 CORNER
GLO "1940" B.C.

S00714'08"E 2658.6'

5/8" RBR

24

19

25

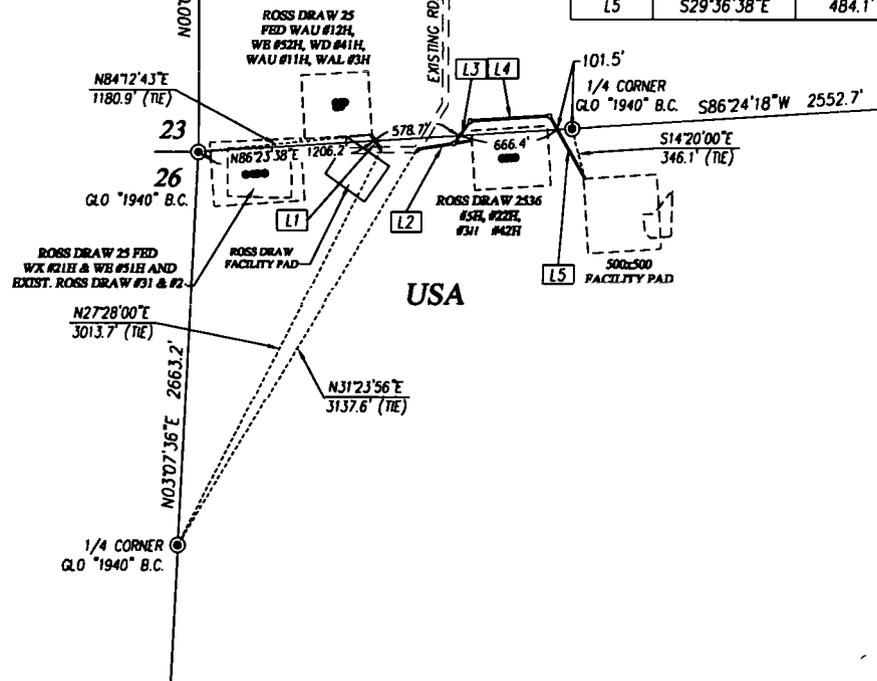
30

R-29-E

R-30-E

S0015'43"E 2657.2'

1/4 CORNER
GLO "1940" B.C.



DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 1717.7 FEET OR 0.325 MILES IN LENGTH CROSSING USA LAND IN SECTION 24 & 25, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

NOTE

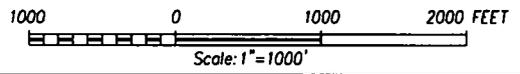
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM, NEW MEXICO EAST ZONE NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, 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 THIS IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson*
DATE: 03/12/2018

LEGEND

⊙ DENOTES FOUND CORNER AS NOTED



XTO ENERGY

SURVEY OF PROPOSED ROADS FOR THE ROSS DRAW WELLS IN SECTIONS 24 & 25, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

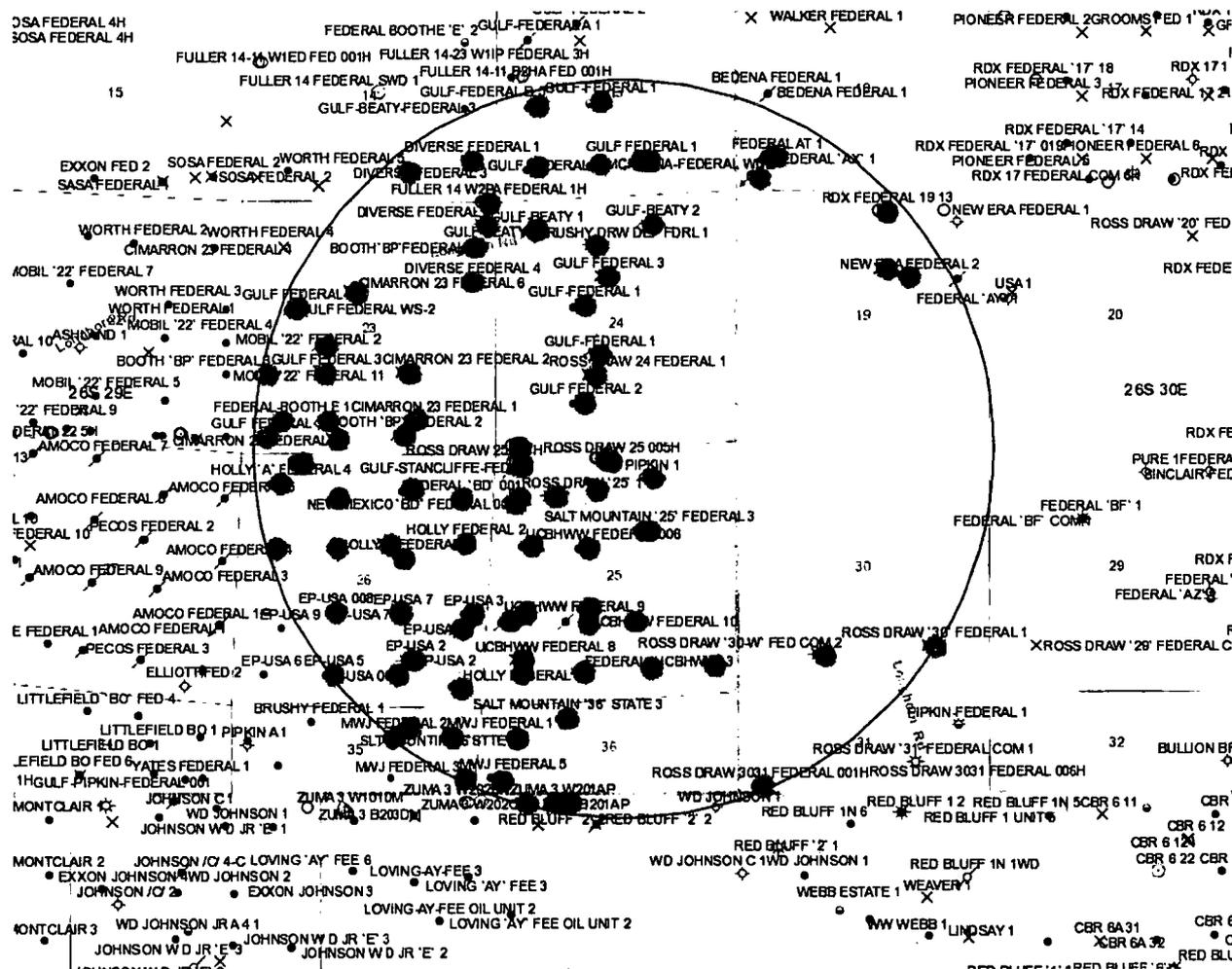
| | | |
|-----------------------|--------------------|---------------|
| Survey Date: 05/11/17 | CAD Date: 03/05/18 | Drawn By: LSL |
| W.O. No.: 18130269 | Rev.: | Rel. W.O.: |

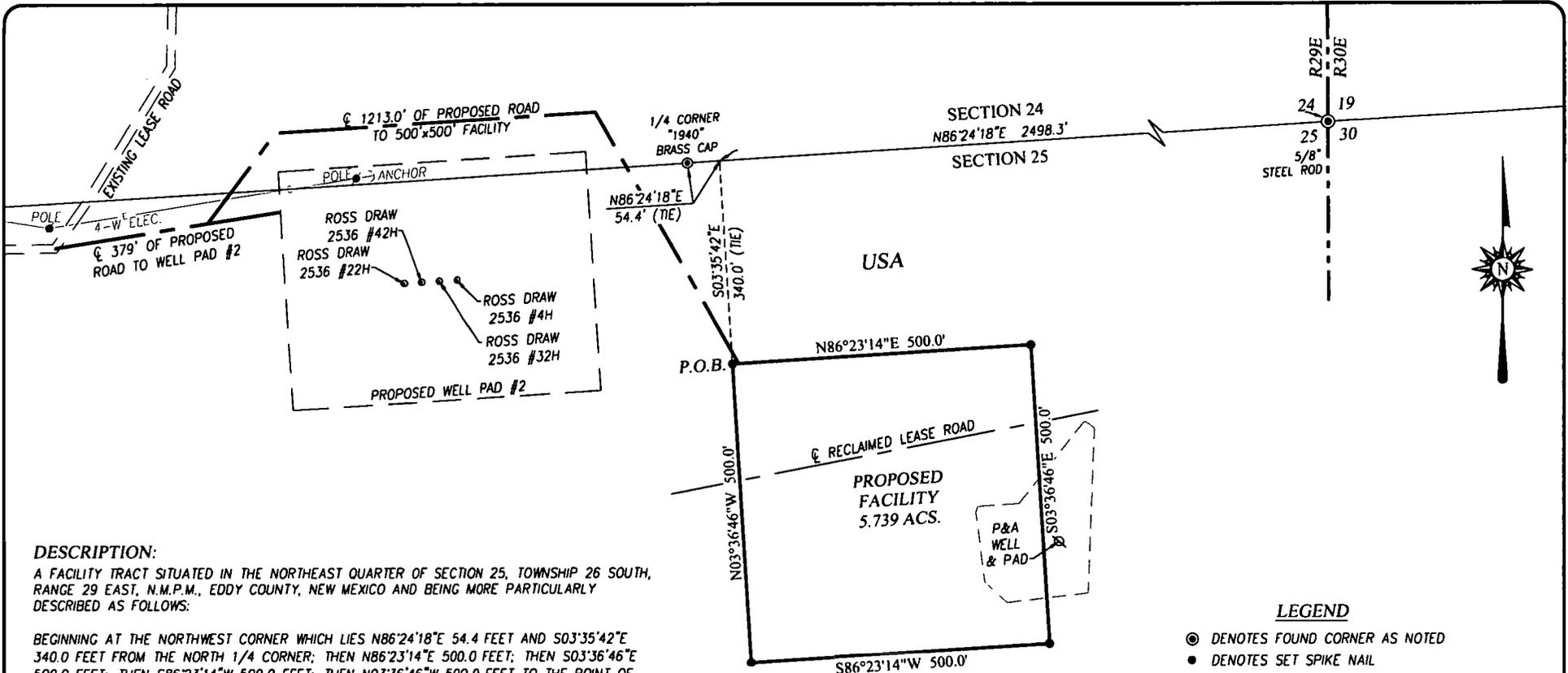
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Ross Draw 25 1-Mile Map





DESCRIPTION:

A FACILITY TRACT SITUATED IN THE NORTHEAST QUARTER OF SECTION 25, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER WHICH LIES N86°24'18"E 54.4 FEET AND S03°35'42"E 340.0 FEET FROM THE NORTH 1/4 CORNER; THEN N86°23'14"E 500.0 FEET; THEN S03°36'46"E 500.0 FEET; THEN S86°23'14"W 500.0 FEET; THEN N03°36'46"W 500.0 FEET TO THE POINT OF BEGINNING AND CONTAINING 5.739 ACRES MORE OR LESS.

NOTE

BEARINGS 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.

LEGEND

- ⊙ DENOTES FOUND CORNER AS NOTED
 - DENOTES SET SPIKE NAIL
- 200 0 200
Scale: 1"=200'

XTO ENERGY

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

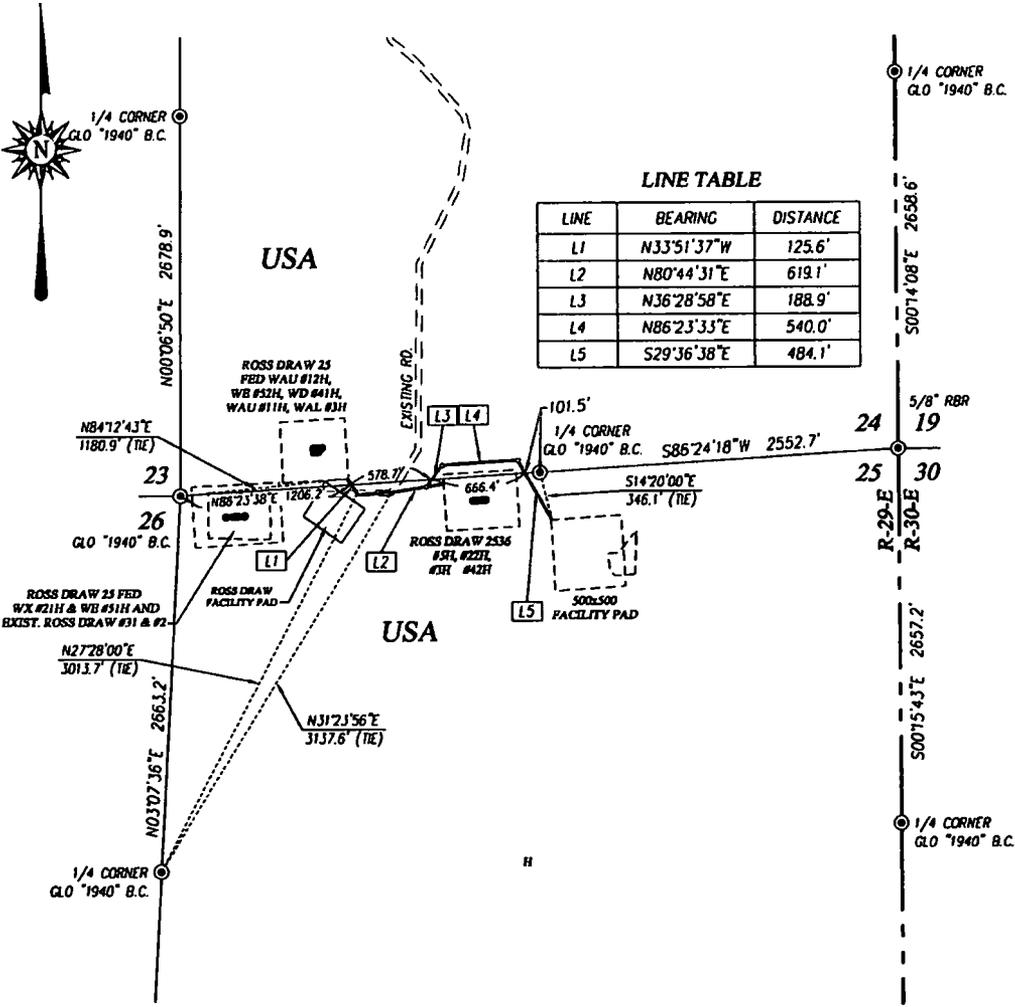
| | | |
|----------------------|-------------------|---------------|
| Survey Date: 5/12/17 | CAD Date: 6/12/17 | Drawn By: DSS |
| W.O. No.: 17110467 | Rev.: | Rel. W.O.: |

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR, No. 3239, 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 IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson* PROFESSIONAL RATE: 06/12/2017

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LINE TABLE

| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| L1 | N33°51'37"W | 125.6' |
| L2 | N80°44'31"E | 619.1' |
| L3 | N36°28'58"E | 188.9' |
| L4 | N86°23'33"E | 540.0' |
| L5 | S29°36'38"E | 484.1' |

DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 1,997.7 FEET OR 0.3707 MILES IN LENGTH CROSSING USA LAND IN SECTION 24 & 25, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

NOTE

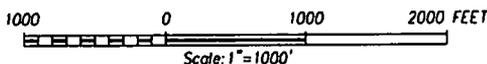
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM, NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, 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 THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson*
 DATE: 03/12/2018

LEGEND

⊙ DENOTES FOUND CORNER AS NOTED



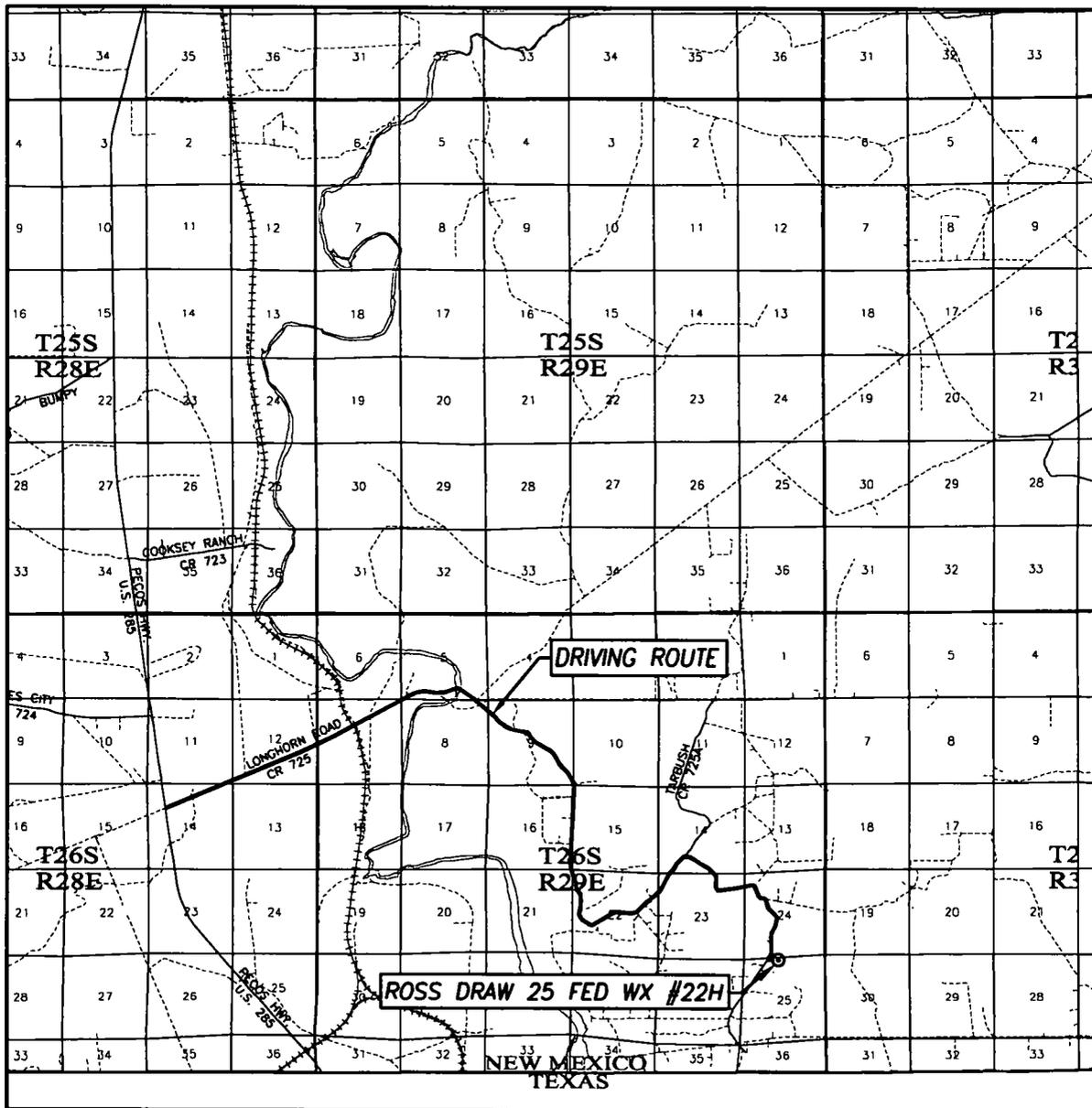
XTO ENERGY

SURVEY OF PROPOSED BURIED & SURFACE FLOWLINES FOR THE ROSS DRAW WELLS IN SECTIONS 24 & 25, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

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| | | |
|-----------------------|--------------------|---------------|
| Survey Date: 05/11/17 | CAD Date: 03/05/18 | Drawn By: LSL |
| W.O. No.: 18130269 | Rev. : | Rel. W.O.: |

VICINITY MAP



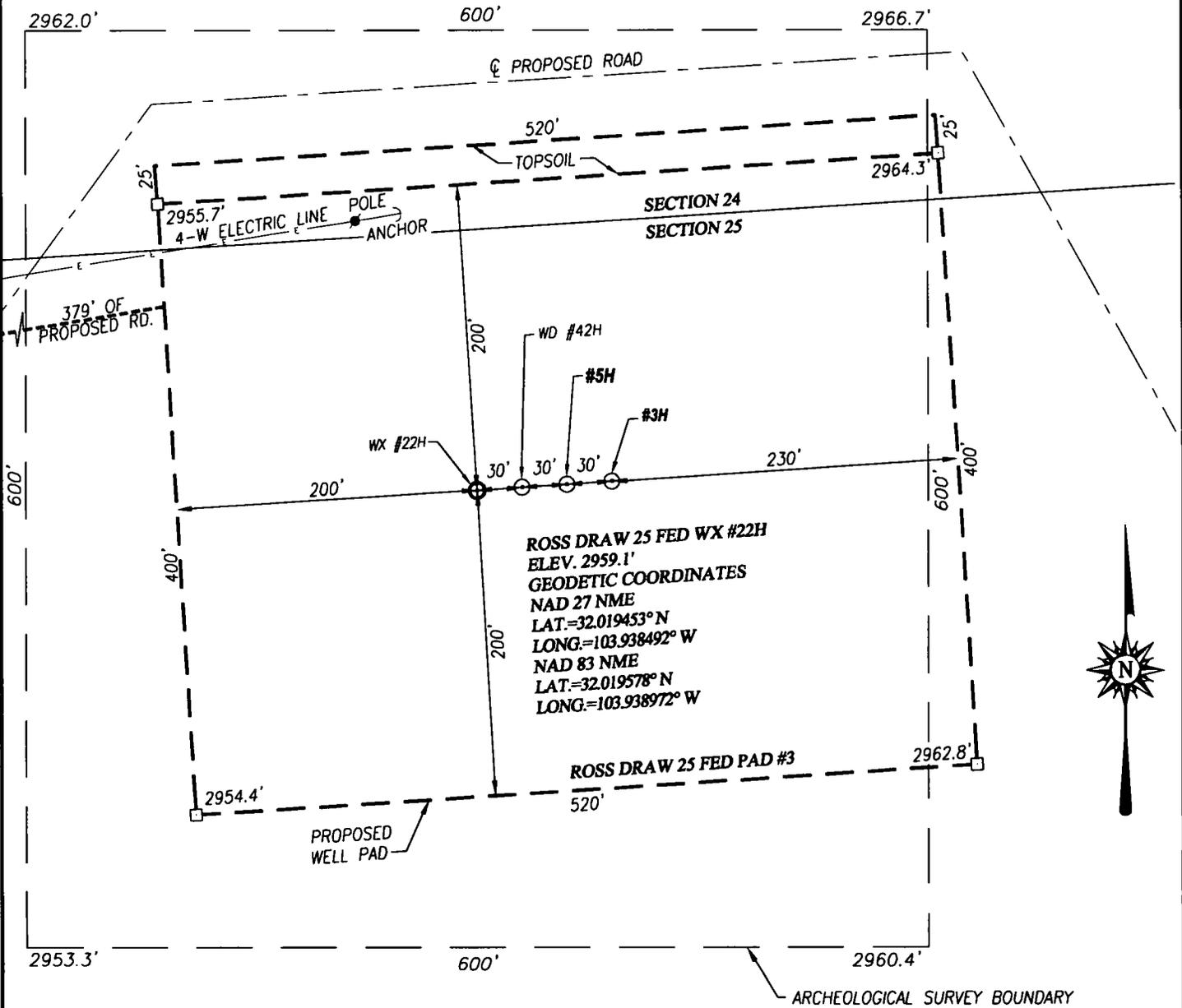
SCALE: 1" = 2 MILES
 DRIVING ROUTE: SEE TOPOGRAPHICAL AND ACCESS ROAD MAP

SEC. 25 TWP. 26-S RGE. 29-E
 SURVEY _____ N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 170' FNL & 2070.6' FWL
 ELEVATION _____ 2959'
 OPERATOR _____ XTO ENERGY
 LEASE _____ ROSS DRAW 25 FED WX



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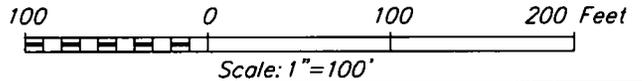
WELL SITE PLAN



ROSS DRAW 25 FED WX #22H
 ELEV. 2959.1'
 GEODETIC COORDINATES
 NAD 27 NME
 LAT.=32.019453° N
 LONG.=103.938492° W
 NAD 83 NME
 LAT.=32.019578° N
 LONG.=103.938972° W



NOTE:
 1) SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP"
 FOR PROPOSED ROAD LOCATION.



DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF US HWY. 285 AND CO. RD. #725 (LONGHORN ROAD), FOLLOW MEANDERING CO. RD. #725 EAST APPROX. 10.3 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.8 MILES ON CALICHE LEASE ROAD. TURN LEFT AND GO NORTHEAST APPROX. 379 FEET. THIS LOCATION IS APPROX. 240 FEET SOUTHEAST.



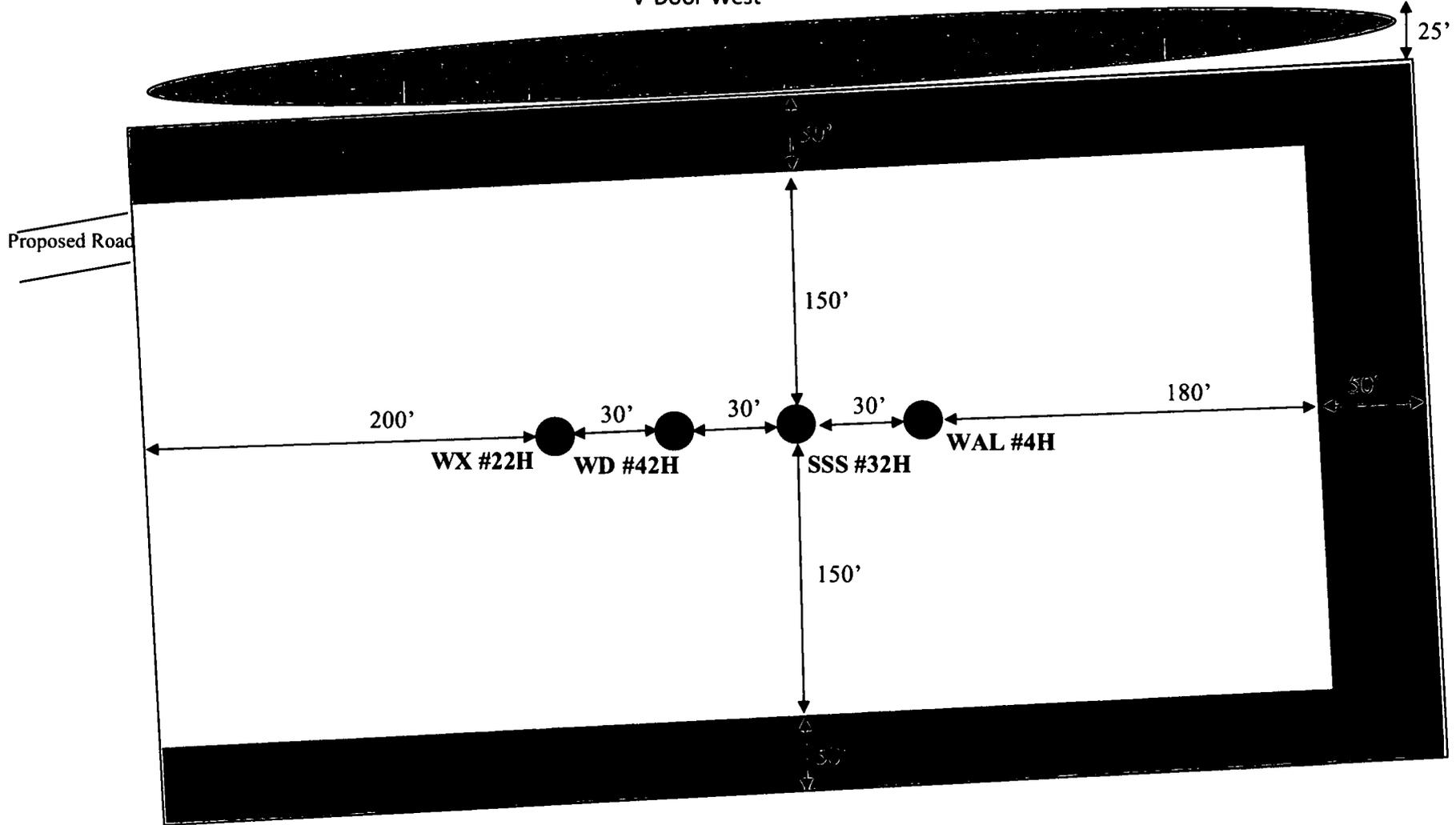
PROVIDING SURVEYING SERVICES
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XTO ENERGY

ROSS DRAW 25 FED WX #22H WELL
 LOCATED 170 FEET FROM THE NORTH LINE
 AND 2070.6 FEET FROM THE WEST LINE OF SECTION 25,
 TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO

| | | |
|-----------------------|--------------------|---------------|
| Survey Date: 05/20/17 | CAD Date: 10/31/17 | Drawn By: ACK |
| W.O. No.: 17110285 | Rev: . | Rel. W.O.: |
| | | Sheet 1 of 1 |

Interim Reclamation Diagram
 Ross Draw 25 Fed WX 22H, WD #42H, #3H, #5H
 V-Door West



LEGEND



Wellbore

Interim Reclamation



Ditch & Berm



Topsoil



Well Site Locations

The results of the Ross Draw 25 Federal Program will develop economic quantities of oil and gas in the 'Ross Draw 25 Federal' 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.

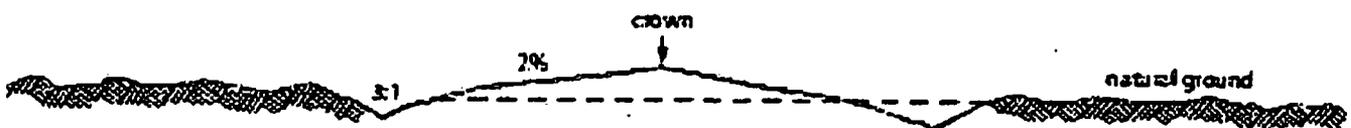
Surface Use Plan

1. Existing Roads

- A. The Ross Draw 25 Federal development area is accessed from the intersection of US Hwy 285 and Co. Rd. #725 (Longhorn Rd), follow meandering county rd. 3725 approximately 10.2 miles. Turn right and go South approximately 0.9 miles to proposed road survey. Follow road survey West approximately 937 feet to the location. The location is to the Northwest. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, 'Topographic and Access Road Map.'
- B. There is an existing access road to the proposed Ross Draw 25 Federal locations. All equipment and vehicles will be confined to the routes shown on the Vicinity 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 1717.7' or .325 miles of proposed and staked access roads in the Ross Draw 25 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 (CTB) 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 vicinity map provided by FSC, Inc. unless otherwise approved by the BLM and applied for by XTO Energy, Inc.
- 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.** There is one Central Tank Battery existing on the Ross Draw 25 Federal lease (Ross 25 Fed 100) constructed and in operation. Due to the additional wells, a second 500'x500' (5.739 acres) CTB was staked and onsited with the BLM for construction and use as a Central Tank Battery (Ross 25 Fed 200). The proposed pad is located in the NWNW, Section 25-26S-29E, Eddy County, NM. Only the area necessary to maintain facilities will be disturbed. A 3160-5 sundry notification will be submitted after construction possessing a site-security diagram and layout of the facility with associated equipment.
- B. **Flowlines.** In the event the wells are found productive, 9-6" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be buried within proposed lease road corridors from the proposed wells to the Ross 25 Fed 100 CTB and Ross 25 Fed 200 CTB where the oil, gas, and water will be metered and appropriately separated. An additional 9-6" high pressure gas lines will be buried within the proposed lease road corridors for gas lift. The distance of proposed flowlines per well will be 1957.7' 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. A plat of the proposed flowline route for the lease is attached.
- C. **Gas Pipeline.** A gas purchaser has been identified. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands to the proposed Ross 25 Fed CTB 200.
- D. **Disposal Facilities.** Produced water will be hauled from location to a commercial 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 Ross Draw 25 Federal project. The flare stacks will be 50'x50' and located on the proposed 500'x500' Ross 25 Fed 200 CTB. Both will be sized and rated

based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.

- 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.** No additional OHE is required for the Ross Draw 25 Federal project. Electrical is not included in this request.

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, Inc. 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 Energy, Inc. at time of drilling and completion, then XTO Energy, Inc. 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 25-26S-29E
 - b. Pit 2: Federal Caliche Pit, Section 24-26S-29E

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.C.S. 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 3 multi-well pads in the Ross Draw 25 Federal project area. This will allow enough space for cuts and fills, topsoil storage, and storm water control. A well list is attached to this application. From West to East:
 1. Pad 1 is an extension of an existing 2-well pad. The 4-well pad is expected to be 620'x430' [Topsoil: North]. *Existing Wells: Ross Draw 25 #2H and Ross Draw 25 #31H.*
 2. Pad 2 is a 5-well pad expected to be 460'x430' [Topsoil: North]. *New well pad.*

3. Pad 3 is an extension of an existing 2-well pad. The 4-well pad is expected to be 520'x430' [Topsoil: North]. *Existing Wells: Ross Draw 25 Fed WAL #4H and Ross Draw 25 Fed SSS #32H.*
- B. **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.
- C. **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 Fernando Banos and Bob Ballard, BLM Natural Resource Specialist and Supervisor, present at on-site inspection.
 1. Pad 1 has a V-Door Orientation of West.
 2. Pad 2 has a V-Door Orientation of East.
 3. Pad 3 has a V-Door Orientation of West.
- D. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- E. 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:

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.

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 Ross Draw 25 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

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 Fernando Banos and Bob Ballard, Bureau of Land Management Natural Resource Specialist and Supervisor, in attendance.
- **Cultural Resources – Archaeology**: A Class III Cultural Resources Examination has been completed on all wells by Boone Archaeological Services and the results will be forwarded to the BLM Office.
- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- a. **Environmental Setting**. According to the Natural Resources Conservation Service's online database, the project area soil is Pajarito-Dune land complex, loamy sand, 0-3 percent slopes. This soil supports grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. The project area is in a low area of deep sands amongst low to medium height dunes with some gravel and outcrops. Vegetation such as fourwing saltbrush, snakeweed and desert sage was viewed in the project 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: UTB0000138

Operator's Representatives:

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

Surface:

Jimie Scott
Construction Lead
XTO Energy, Incorporated
6401 Holiday Hill Road, Bldg 5
Midland, Texas 79707
432-488-9955
james_scott@xtoenergy.com



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:

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 surface owner:

PWD disturbance (acres):

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?

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:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

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):

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 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: