



U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed: 07/01/2025 10:10 AM

APD ID: 10400101428

Well Status: AAPD

APD Received Date: 10/10/2024 04:29 PM

Well Name: MUY WAYNO 18 FEDERAL

Operator: XTO PERMIAN OPERATING LLC

Well Number: 402H

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 1 file(s)
 - Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - Casing Spec Documents: 2 file(s)
 - Casing Taperd String Specs: 1 file(s)
 - Casing Design Assumptions and Worksheet(s): 1 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
 - Other Facets: 4 file(s)
 - Other Variances: 4 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - New Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 4 file(s)
 - Water source and transportation map: 1 file(s)
 - Well Site Layout Diagram: 2 file(s)
 - Recontouring attachment: 1 file(s)
 - Other SUPO Attachment: 1 file(s)
- PWD Report
- PWD Attachments

-- None

- Bond Report

- Bond Attachments

-- None

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM120898
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. MUY WAYNO 18 FEDERAL 402H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-57093
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 3 / 1436 FSL / 1345 FWL / LAT 32.126774 / LONG -103.925056 At proposed prod. zone LOT 1 / 10 FNL / 685 FWL / LAT 32.152015 / LONG -103.927225		10. Field and Pool, or Exploratory PIERCE CROSSING/BONE SPRING, EA 11. Sec., T. R. M. or Blk. and Survey or Area SEC 18/T25S/R30E/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) 1345 feet	16. No of acres in lease	17. Spacing Unit dedicated to this well 243.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 9776 feet / 18135 feet	20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3166 feet	22. Approximate date work will start* 10/03/2025	23. Estimated duration 30 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) VISHAL RAJAN / Ph: (432) 682-8873	Date 10/10/2024
Title Regulatory Clerk		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 05/29/2025
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

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.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 05/29/2025

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: LOT 3 / 1436 FSL / 1345 FWL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.126774 / LONG: -103.925056 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 2 / 2560 FNL / 685 FWL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.13041 / LONG: -103.927196 (TVD: 9776 feet, MD: 10300 feet)

BHL: LOT 1 / 10 FNL / 685 FWL / TWSP: 25S / RANGE: 30E / SECTION: 7 / LAT: 32.152015 / LONG: -103.927225 (TVD: 9776 feet, MD: 18135 feet)

BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov

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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.

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**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	XTO Permian Operating LLC
LEASE NO.:	NMNM120898
COUNTY:	EDDY County, New Mexico

Wells:

- Muy Wayno 18 Federal 401H
- Muy Wayno 18 Federal 402H
- Muy Wayno 18 Federal 403H
- Muy Wayno 18 Federal 404H
- Muy Wayno 18 Federal 405H
- Muy Wayno 18 Federal 406H

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3. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) 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, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

RANGELAND RESOURCES

1.1.1. Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road 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 cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.1.2. Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.1.3. Livestock Watering Requirement

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.

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, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (*Peganum harmala*)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

LIGHT POLLUTION

1.1.4. Downfacing

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.1.5. Shielding

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.1.6. Lighting Color

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

4. SPECIAL REQUIREMENTS

WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil 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.

1.1.7. Tank Battery

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. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). 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.

1.1.8. Buried/Surface Line(s)

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

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

1.1.9. Electric Line(s)

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

1.1.10. Temporary Use Fresh Water Frac Line(s)

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary pipeline into a permanent pipeline.

WILDLIFE

2.3.1 Texas Hornshell Mussel

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

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

Oil and Gas Zone D - CCA Boundary requirements.

- Implement erosion control measures in accordance with the Reasonable and Prudent Practices for Stabilization ("RAPPS")
- Comply with SPCC requirements in accordance with 40 CFR Part 112;
- Comply with the United States Army Corp of Engineers (USACE) Nationwide 12 General Permit, where applicable;
- Utilize technologies (like underground borings for pipelines), where feasible;
- Educate personnel, agents, contractors, and subcontractors about the requirements of conservation measures, COAs, Stips and provide direction in accordance with the Permit.

VISUAL RESOURCE MANAGEMENT

2.5.1 VRM IV

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

5. CONSTRUCTION REQUIREMENTS

CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov 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 COAs on the well site and they shall be made available upon request by the Authorized Officer.

TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. 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 (the B horizon and below) 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.

CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

FEDERAL MINERAL 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.

WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

EXCLOSURE FENCING (CELLARS & PITS)

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

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

ON LEASE ACCESS ROAD

3.1.1 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.

3.1.2 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 will 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.

3.1.3 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.

3.1.4 Ditching

Ditching shall be required on both sides of the road.

3.1.5 Turnouts

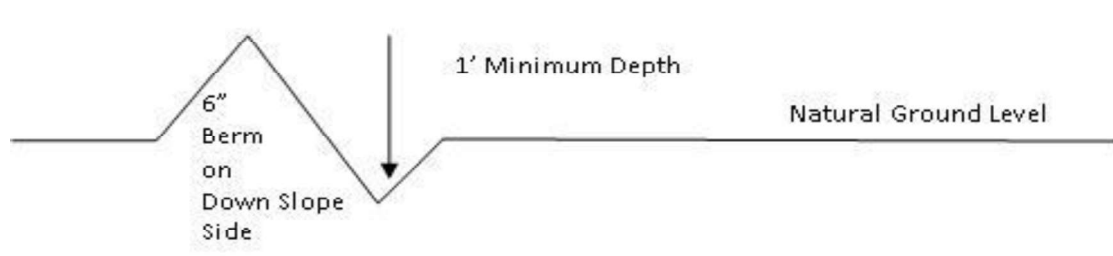
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and insloping, leadoff 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:

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

3.7.7 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

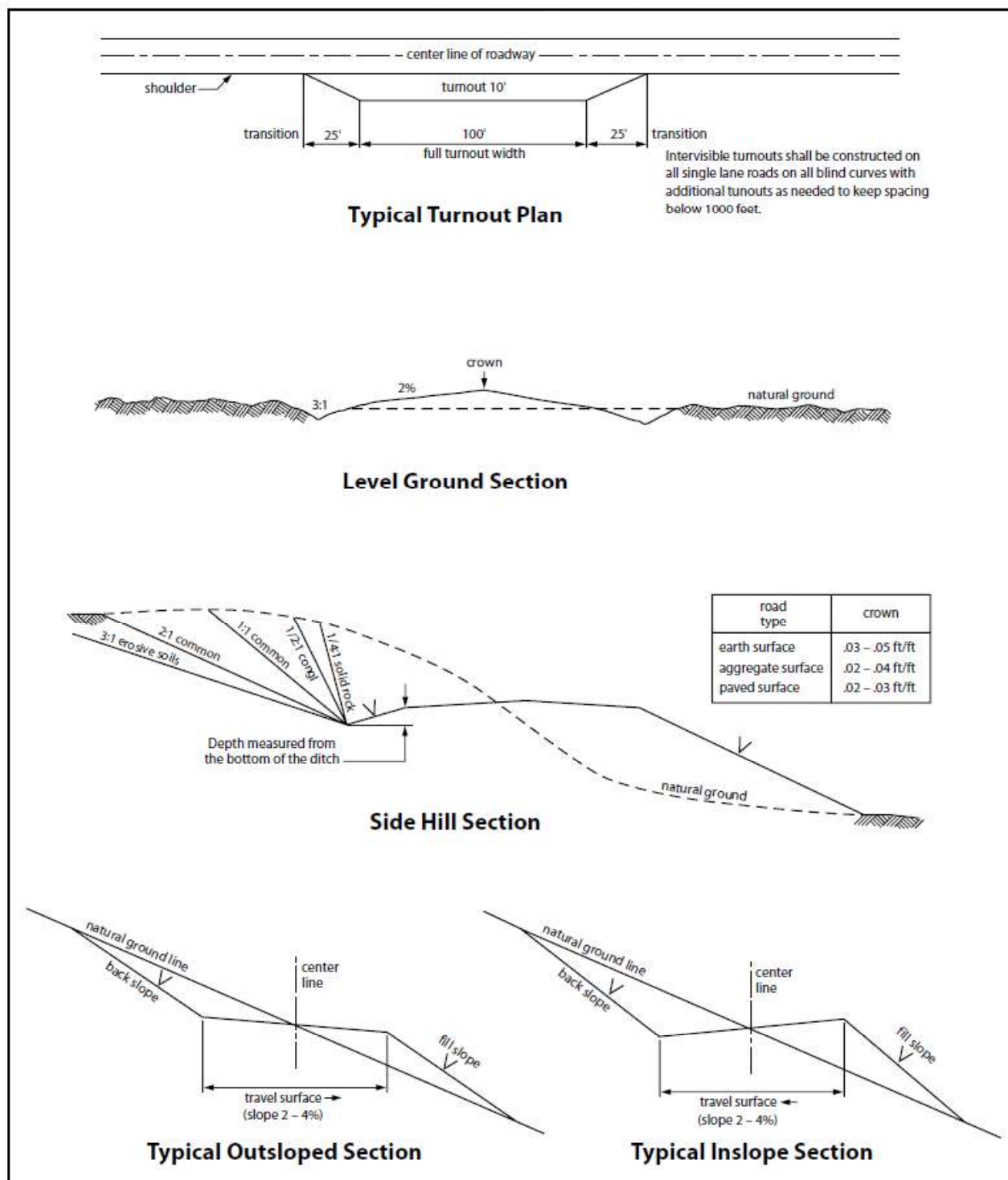


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

7. PIPELINES

- 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.
- 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.

BURIED PIPELINES

A copy of the application (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 a copy of your permit during construction to ensure compliance with all stipulations.

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

1. The Operator 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 APD.
2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator 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 pipeline corridor or on facilities authorized under this APD. (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 operator 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 Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, 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 is 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 operator, regardless of fault. Upon failure of operator 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 operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.
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 pipeline corridor will be 30 feet:
 - Blading of vegetation within the pipeline corridor 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 pipeline corridor 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 pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The operator 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. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor 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.
10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator'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.
11. The operator 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 operator before maintenance begins. The operator 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 operator to construct temporary deterrence structures.
12. 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.
13. 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 alive 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. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

SURFACE PIPELINES

A copy of the APD and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

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

1. Operator 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 APD.
2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, 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. Operator 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 Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.
4. Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Operator shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the pipeline corridor or permit area:
 - a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage
 - c. Acts of God.

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

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

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Operator, regardless of fault. Upon failure of Operator 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 they deem 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 Operator. Such action by the Authorized Officer shall not relieve Operator of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or pipeline corridors.
7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
8. Operator shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
10. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
11. In those areas where erosion control structures are required to stabilize soil conditions, the operator will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the operator to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
13. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
14. The operator 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 operator. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
15. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
16. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

RANGLAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road 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 cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 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 operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

8. OVERHEAD ELECTRIC LINES

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

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

1. The operator 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 APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator 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 powerline corridor or on facilities authorized under this powerline corridor. (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 operator 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 Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

9. PRODUCTION (POST DRILLING)

WELL STRUCTURES & FACILITIES

5.1.1 Placement of Production Facilities

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

5.1.2 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.

5.1.3. 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.

5.1.4. 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.

5.1.5. 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.

10. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to

down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion caused by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must 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 must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. 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 in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

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 will 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. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permittee 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 land application will be accomplished by mechanical planting 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 tend to drop the bottom of the drill and are planted first; the operator 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 BLM or Soil Conservation

District 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 or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

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 bristlegass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

[illegible]

dr r

*** Groundwater depth 40' (per NM State Engineers Office).

1. 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 283

3. Casing Design

項目 名称	D 名称	LD 名称	区 名称	Grade	材料	断面形状	断面 尺寸	断面 材料	断面 材料
管 道	0' – 1030'	管 道	区	管 道	管 道	管 道	管 道	管 道	管 道
管 道	0' – 4000'	管 道	管 道	R 管 道	管 道 管 道	管 道	管 道	管 道	管 道
管 道	4000' – 8950'	管 道	管 道	管 道	管 道 管 道	管 道	管 道	管 道	管 道
管 道	0' – 8850'	管 道	管 道	R 管 道 管 道	管 道 管 道 管 道	管 道	管 道	管 道	管 道
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1. 在 `main` 函数中，我们使用 `scanf` 函数来接收用户输入的两个整数 `a` 和 `b`。

Wellhead:

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Recommendations

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6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments

...

7. Auxiliary Well Control and Monitoring Equipment

-
-
-

8. Logging, Coring and Testing Program

...

9. Abnormal Pressures and Temperatures / Potential Hazards

...

10. Anticipated Starting Date and Duration of Operations

...

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Muy Wayno 18 Federal 402H
LOCATION:	Section 18, T.25S., R.30E.
COUNTY:	Eddy County

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input checked="" type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

Operator will need to submit a sundry to add "COM" to the well name.

Possibility of water flows in the Rustler

Possibility of lost circulation in the Salado, Castile, and Delaware

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **850** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **12-1/4** inch in diameter.
 - 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 will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **9-5/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR 3172** i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- 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.

E. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL 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

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. 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 are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. 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.

2. Wait on cement (WOC) for Potash Areas: 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 for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. 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.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. 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.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
3. 5M or higher 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. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. 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 cement), 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).
- ii. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. 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.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. 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.
 - vii. 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.
 - viii. 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 **43 CFR 3172**.

C. 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.

D. 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.

JS 5/2/2025



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

Operator Certification Data Report

07/01/2025

Operator

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: SIVAPRAKASH SELVAM**Signed on:** 10/10/2024**Title:** Regulatory Clerk**Street Address:** 22777 SPRINGWOODS VILLAGE PARKWAY**City:** SPRING**State:** TX**Zip:** 77389**Phone:** (720)539-1673**Email address:** SIVAPRAKASH.SELVAM1@EXXONMOBIL.COM

Field

Representative Name:**Street Address:****City:****State:****Zip:****Phone:****Email address:**



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

Application Data

07/01/2025

APD ID: 10400101428

Submission Date: 10/10/2024

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400101428

Tie to previous NOS? N

Submission Date: 10/10/2024

BLM Office: Carlsbad

User: SIVAPRAKASH SELVAM

Title: Regulatory Clerk

Federal/Indian APD: FED

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

Lease number: NMNM120898

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: XTO PERMIAN OPERATING LLC

Operator letter of

Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

Operator Address: 6401 HOLIDAY HILL ROAD BLDG 5

Zip: 79707

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (432)683-2277

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PIERCE
CROSSINGPool Name: BONE SPRING,
EAST

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Is the proposed well in an area containing other mineral resources?** USEABLE WATER,NATURAL GAS,OIL**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?****Type of Well Pad:** MULTIPLE WELL**Multiple Well Pad Name:** MUY WAYNO 18 FEDERAL**Number:** D**Well Class:** HORIZONTAL**Number of Legs:** 1**Well Work Type:** Drill**Well Type:** OIL WELL**Describe Well Type:****Well sub-Type:** INFILL**Describe sub-type:****Distance to town:****Distance to nearest well:** 30 FT**Distance to lease line:** 1345 FT**Reservoir well spacing assigned acres Measurement:** 243 Acres**Well plat:** Muy_Wayno_18_402H_C102_20241104014440.pdf**Well work start Date:** 10/03/2025**Duration:** 30 DAYS**Section 3 - Well Location Table****Survey Type:** RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:****Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1436	FSL	1345	FWL	25S	30E	18	Lot 3	32.126774	-103.925056	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC065705B	3166			N
KOP Leg #1	2044	FSL	684	FWL	25S	30E	18	Lot 3	32.128441	-103.927193	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC065705B	-5894	9150	9060	N
PPP Leg #1-1	2560	FNL	685	FWL	25S	30E	18	Lot 2	32.13041	-103.927196	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM120898	-6610	10300	9776	Y

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
EXIT Leg #1	100	FNL	685	FW L	25S	30E	7	Lot 1	32.15176 7	- 103.9272 24	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 661 0	180 45	977 6	Y
BHL Leg #1	10	FNL	685	FW L	25S	30E	7	Lot 1	32.15201 5	- 103.9272 25	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 661 0	181 35	977 6	Y

C-102 Submit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024
	Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
		<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-	Pool Code 96473	Pool Name PIERCE CROSSING;BONE SPRING, EAST
Property Code	Property Name MUY WAYNO 18 FEDERAL	Well Number 402H
OGRID No. 005380	Operator Name XTO ENERGY, INC.	Ground Level Elevation 3,166'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Hole Location

UL	Section 18	Township 25S	Range 30E	Lot 3	Ft. from N/S 1,436 FSL	Ft. from E/W 1,345 FWL	Latitude 32.126774	Longitude -103.925056	County EDDY
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Bottom Hole Location

UL	Section 7	Township 25S	Range 30E	Lot 1	Ft. from N/S 10 FNL	Ft. from E/W 685 FWL	Latitude 32.152015	Longitude -103.927225	County EDDY
----	---------------------	------------------------	---------------------	-----------------	-------------------------------	--------------------------------	------------------------------	---------------------------------	-----------------------

Dedicated Acres 243.44	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code P
Order Numbers.			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section 18	Township 25S	Range 30E	Lot 3	Ft. from N/S 2,044 FSL	Ft. from E/W 684 FWL	Latitude 32.128441	Longitude -103.927193	County EDDY
----	----------------------	------------------------	---------------------	-----------------	----------------------------------	--------------------------------	------------------------------	---------------------------------	-----------------------

First Take Point (FTP)

UL	Section 18	Township 25S	Range 30E	Lot 2	Ft. from N/S 2,560 FNL	Ft. from E/W 685 FWL	Latitude 32.130410	Longitude -103.927196	County EDDY
----	----------------------	------------------------	---------------------	-----------------	----------------------------------	--------------------------------	------------------------------	---------------------------------	-----------------------

Last Take Point (LTP)

UL	Section 7	Township 25S	Range 30E	Lot 1	Ft. from N/S 100 FNL	Ft. from E/W 685 FWL	Latitude 32.151767	Longitude -103.927224	County EDDY
----	---------------------	------------------------	---------------------	-----------------	--------------------------------	--------------------------------	------------------------------	---------------------------------	-----------------------

Unitized Area of Area of Interest	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Elevation 3,166'
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OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Terra Sebastian
Signature
10/07/2024
Date

Terra Sebastian
Printed Name
terra.b.sebastian@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786
Certificate Number
10/4/2024
Date of Survey

RP

618,013001,00-03

\\618.013 XTO Energy - NM\001 Muy Wayno 18 - Eddy\00 - Muy Wayno 18\Wells\03 - 402H\DWG\402H C-102.dwg

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

ACREAGE DEDICATION PLATS

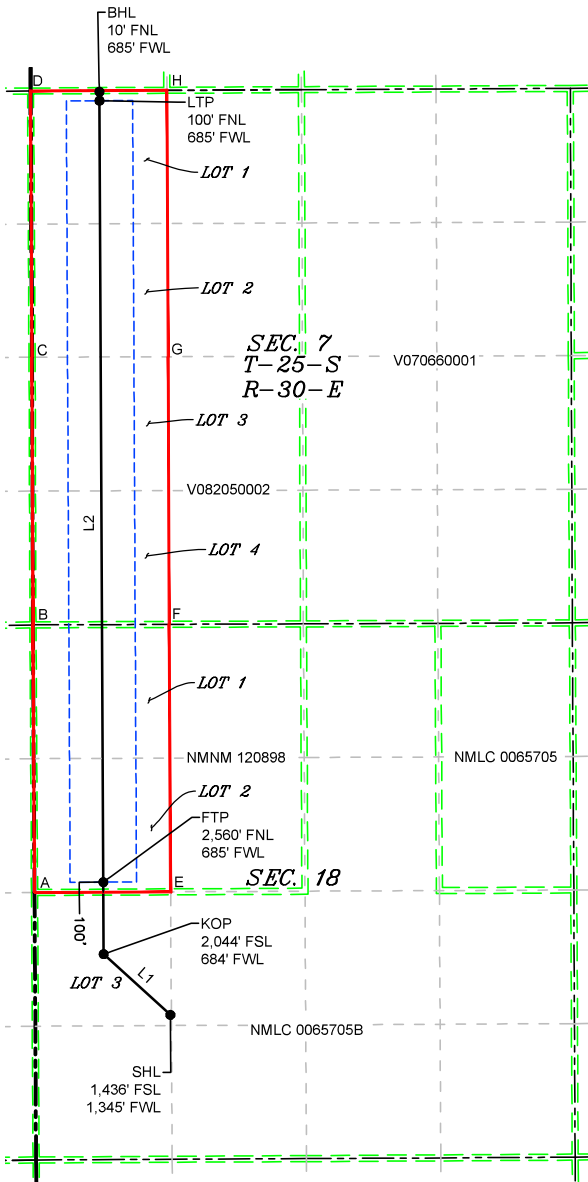
This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	312°17'09"	897.57'
L2	359°43'08"	8,575.74'

LEGEND

	SECTION LINE
	PROPOSED WELL BORE
	NEW MEXICO MINERAL LEASE
	330' BUFFER
	ALLOCATION AREA



COORDINATE TABLE			
SHL (NAD 83 NME)		SHL (NAD 27 NME)	
Y =	410,095.7 N	Y =	410,037.2 N
X =	667,724.7 E	X =	626,540.2 E
LAT. =	32.126774 °N	LAT. =	32.126649 °N
LONG. =	103.925056 °W	LONG. =	103.924571 °W
KOP (NAD 83 NME)		KOP (NAD 27 NME)	
Y =	410,699.6 N	Y =	410,641.1 N
X =	667,060.7 E	X =	625,876.2 E
LAT. =	32.128441 °N	LAT. =	32.128316 °N
LONG. =	103.927193 °W	LONG. =	103.926708 °W
FTP (NAD 83 NME)		FTP (NAD 27 NME)	
Y =	411,415.9 N	Y =	411,357.3 N
X =	667,057.2 E	X =	625,872.7 E
LAT. =	32.130410 °N	LAT. =	32.130285 °N
LONG. =	103.927196 °W	LONG. =	103.926711 °W
LTP (NAD 83 NME)		LTP (NAD 27 NME)	
Y =	419,185.3 N	Y =	419,126.5 N
X =	667,019.1 E	X =	625,834.9 E
LAT. =	32.151767 °N	LAT. =	32.151642 °N
LONG. =	103.927224 °W	LONG. =	103.926738 °W
BHL (NAD 83 NME)		BHL (NAD 27 NME)	
Y =	419,275.3 N	Y =	419,216.5 N
X =	667,018.6 E	X =	625,834.4 E
LAT. =	32.152015 °N	LAT. =	32.151890 °N
LONG. =	103.927225 °W	LONG. =	103.926739 °W
CORNER COORDINATES (NAD 83 NME)			
A - Y =	411,312.7 N	A - X =	666,372.8 E
B - Y =	413,973.3 N	B - X =	666,357.8 E
C - Y =	416,635.5 N	C - X =	666,348.2 E
D - Y =	419,281.9 N	D - X =	666,333.9 E
E - Y =	411,318.5 N	E - X =	667,726.6 E
F - Y =	413,978.4 N	F - X =	667,712.1 E
G - Y =	416,639.2 N	G - X =	667,702.4 E
H - Y =	419,288.6 N	H - X =	667,690.0 E
CORNER COORDINATES (NAD 27 NME)			
A - Y =	411,254.2 N	A - X =	625,188.3 E
B - Y =	413,914.7 N	B - X =	625,173.4 E
C - Y =	416,576.8 N	C - X =	625,163.9 E
D - Y =	419,223.1 N	D - X =	625,149.6 E
E - Y =	411,260.0 N	E - X =	626,542.1 E
F - Y =	413,919.8 N	F - X =	626,527.6 E
G - Y =	416,580.5 N	G - X =	626,518.1 E
H - Y =	419,229.8 N	H - X =	626,505.8 E

LOT ACREAGE TABLE	
SECTION 7 T-25-S, R-30-E	
LOT 1 =	40.55 ACRES
LOT 2 =	40.56 ACRES
LOT 3 =	40.58 ACRES
LOT 4 =	40.59 ACRES
SECTION 18	
LOT 1 =	40.59 ACRES
LOT 2 =	40.57 ACRES
LOT 3 =	40.53 ACRES



Drilling Plan Data Report

07/01/2025

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

APD ID: 10400101428

Submission Date: 10/10/2024

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15724494	QUATERNARY	3166	0	0	ALLUVIUM	USEABLE WATER	N
15724495	RUSTLER	2236	930	930	ANHYDRITE, SANDSTONE	USEABLE WATER	N
15724496	SALADO	1872	1294	1294	SALT	NONE	N
15724497	BASE OF SALT	-122	3288	3288	SALT	NONE	N
15724498	DELAWARE	-354	3520	3520	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
15724499	BRUSHY CANYON	-2810	5976	5976	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
15724500	BONE SPRING	-4087	7253	7253	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15724501	BONE SPRING 1ST	-4841	8007	8007	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15724502	BONE SPRING 2ND	-5469	8635	8635	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15724503	BONE SPRING 3RD	-6134	9300	9300	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15724493	BONE SPRING 3RD	-6510	9676	9676	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9776

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 10M Triple Ram BOP. XTO will use a 3 String Multi-Bowl system which is attached.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose: See Attached. XTO requests a variance to be able to batch drill this well if necessary. XTO request a break test variance: See Attached. XTO requests a variance to utilize a spudder rig: See Attached.

Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172.

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Choke Diagram Attachment:**

Muy_Wayno_18_10MCM_20250224141956.pdf

BOP Diagram Attachment:

Muy_Wayno_18_5M10M_BOP_20250224142006.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	12.25	9.625	NEW	API	N	0	1030	0	1030	3166	2136	1030	J-55	40	BUTT	6.11	1.78	DRY	15.29	DRY	15.29
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	8950	0	8861	3165	-5695	8950	L-80	29.7	FJ	2.56	2.27	DRY	2.76	DRY	2.76
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	18135	0	9776	3165	-6610	18135	P-110	20	OTHER - Talon HTQ/Freedom HTQ	2.14	1.26	DRY	2.46	DRY	2.46

Casing Attachments**Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Casing Attachments****Casing ID:** 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):****Casing ID:** 3 **String** PRODUCTION**Inspection Document:****Spec Document:**

TPN__5.500_0.361_P110_ICY_11202024_20250227101529.pdf

Wedge_441__5.500_0.361_P110_ICY_11202024_20250227101529.pdf

Tapered String Spec:

Muy_Wayno_18_402H_Csg_20250227101552.pdf

Casing Design Assumptions and Worksheet(s):

Muy_Wayno_18_402H_Csg_20250227101559.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1030	240	1.87	10.5	448.8	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1030	130	1.35	14.8	175.5	100	Class C	2%cacl
INTERMEDIATE	Lead		0	5976	590	1.35	14.8	796.5	100	Class C	NA
INTERMEDIATE	Tail		5976	8950	670	1.33	14.8	891.1	100	Class C	NA

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		8650	9150	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		9150	1813 5	640	1.51	13.2	966.4	30	VersaCem	NA

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 43 CFR 3172:****Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

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

Describe the mud monitoring system utilized: Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

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
0	1030	WATER-BASED MUD	8.4	8.9							
1030	8950	OTHER : Fully sat brine for salt interval / BDE	9	9.5							
8950	1813 5	OIL-BASED MUD	10.2	10.7							

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

GAMMA RAY LOG, MEASUREMENT WHILE DRILLING, CEMENT BOND LOG, DIRECTIONAL SURVEY, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No Coring Operations for Well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5439**Anticipated Surface Pressure:** 3288**Anticipated Bottom Hole Temperature(F):** 185**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

XTO_Energy_H2S_Plan_Updated_20241008085636.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Muy_Wayno_18_402H_DD_20241009115243.pdf

Muy_Wayno_18_Fed_402H_Well_Plan_View_20250226143842.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

H2S_diagram_DiaD_20241008090019.pdf

Muy_Wayno_18_402H_Cmt_20241009115317.pdf

Muy_Wayno_18_MBS_9.625_x_7.625_3String_20241009115405.pdf

PLU_Muy_Wayno_18_Gas_Capture_Plan_20250227101647.pdf

Other Variance request(s)?: Y**Other Variance attachment:**

BOP_Break_Test_Variance_20241008090141.pdf

Flex_Hose_Updated_20241008090139.pdf

Operator Name: XTO PERMIAN OPERATING LLC

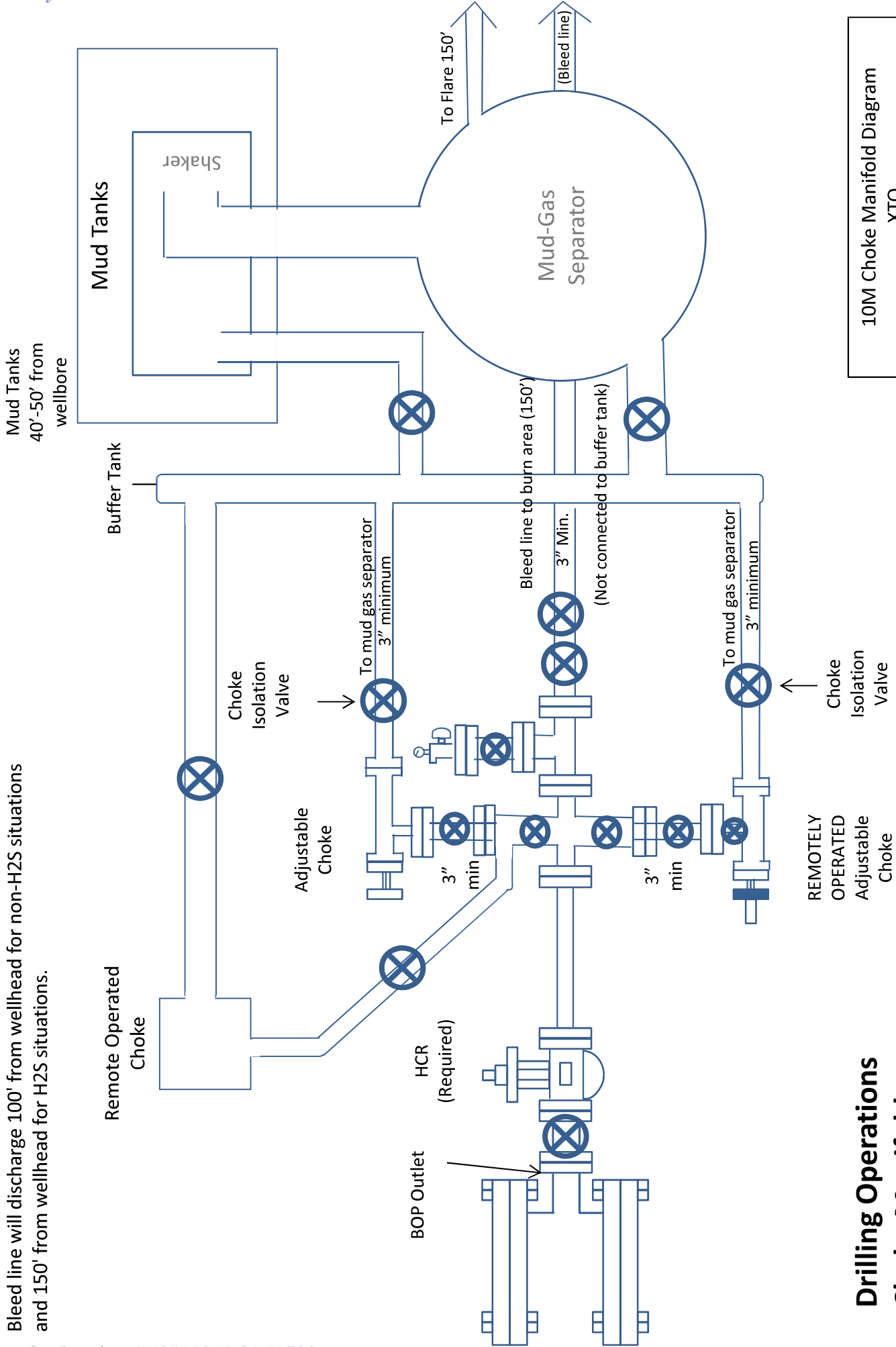
Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Muy_Wayno_18_OLCV_20241008090139.pdf

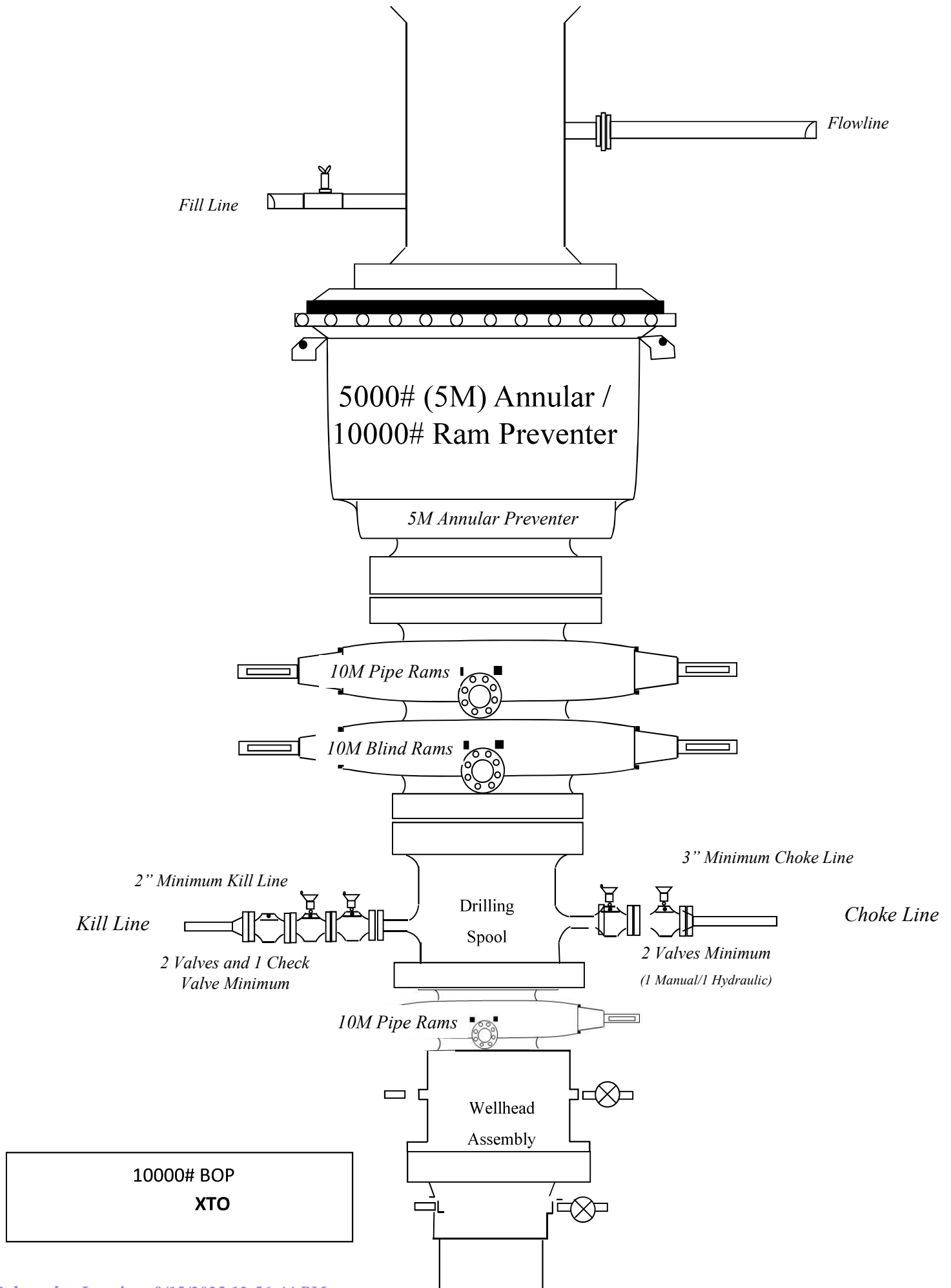
Spudder_Rig_Request_20241008090137.pdf

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



10M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
10M Service**





TPN™



Coupling	Pipe Body
Grade: P110-4CY	Grade: P110-4CY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5,500 in.	Wall Thickness	0,361 in.	Grade	P110-4CY
Min. Wall Thickness	87,50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5,500 in.	Wall Thickness	0,361 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	20,00 lb/ft	Plain End Weight	19,83 lb/ft	Min. Internal Yield Pressure	14,360 psi
Drift	4,653 in.	OD Tolerance	API	SMYS	125,000 psi
Nominal ID	4,778 in.			Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6,300 in.	Tension Efficiency	100 %	Minimum	21,100 ft-lb
Coupling Length	8,408 in.	Joint Yield Strength	729 x1000 lb	Optimum	22,600 ft-lb
Connection ID	4,778 in.	Internal Pressure Capacity	14,360 psi	Maximum	24,100 ft-lb
Make-up Loss	4,204 in.	Compression Efficiency	100 %		
Threads per inch	5	Compression Strength	729 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	104 °/100 ft	Operating Torque	29,300 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	32,500 ft-lb

Notes

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-4CY	Grade: P110-4CY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-4CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	729 x1000 lb
		Min. Internal Yield Pressure	14,360 psi
		SMYS	125,000 psi
		Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	594 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %		
Threads per inch	3.40	Compression Strength	594 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	84,76 °/100 ft	Operating Torque	36,000 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.361 (20.00) / 0.415 (23.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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Casing Assumptions

3. Casing Design

井筒段名称	深度范围 (m)	井径 (mm)	壁厚 (mm)	材料	重量 (kg/m)	连接类型	其他说明	备注
表层套管	0' - 10'	244.5	12.7	API 5L X60	10.0	直连		
技术套管	10' - 20'	219.1	12.7	API 5L X60	8.5	直连		
生产套管	20' - 30'	193.0	12.7	API 5L X60	7.5	直连		
尾管	30' - 40'	167.6	12.7	API 5L X60	6.5	直连		
衬管	40' - 50'	141.3	12.7	API 5L X60	5.5	直连		
筛管	50' - 60'	115.9	12.7	API 5L X60	4.5	直连		

Casing Assumptions

3. Casing Design

井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格
井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格
井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格
井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格
井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格
井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格
井口位置	井口深度	井口直径	井口材料	井口重量	井口长度	井口类型	井口规格	井口材料	井口重量	井口长度	井口类型	井口规格



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

All XTO location 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).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

XTO PERSONNEL:

Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363

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:**For Lea County:**

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.346	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.373	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.405	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.441	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.482	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.528	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.577	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.630	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	312.286	1199.980	4.359	0.000	5.094	0.000	2.686	0.000	0.000	5.120	4.331	121.570	MWD+IFR1+MS
1300.000	4.000	312.286	1299.838	5.241	0.000	5.424	0.000	2.745	0.000	0.000	5.609	5.049	96.411	MWD+IFR1+MS
1400.000	6.000	312.286	1399.452	6.010	0.000	5.756	0.000	2.810	0.000	0.000	6.271	5.489	77.197	MWD+IFR1+MS
1500.000	8.000	312.286	1498.702	6.703	0.000	6.093	0.000	2.883	0.000	0.000	6.950	5.840	69.709	MWD+IFR1+MS
1600.000	10.000	312.286	1597.465	7.340	0.000	6.432	0.000	2.966	0.000	0.000	7.598	6.174	66.314	MWD+IFR1+MS
1704.026	12.081	312.286	1699.561	7.987	0.000	6.793	0.000	3.067	0.000	0.000	8.266	6.520	64.292	MWD+IFR1+MS
1800.000	12.081	312.286	1793.409	8.372	0.000	7.126	0.000	3.148	0.000	0.000	8.658	6.835	64.555	MWD+IFR1+MS
1900.000	12.081	312.286	1891.195	8.668	0.000	7.477	0.000	3.230	0.000	0.000	8.961	7.176	65.338	MWD+IFR1+MS
2000.000	12.081	312.286	1988.980	8.971	0.000	7.833	0.000	3.315	0.000	0.000	9.272	7.520	66.126	MWD+IFR1+MS
2100.000	12.081	312.286	2086.765	9.281	0.000	8.192	0.000	3.402	0.000	0.000	9.588	7.867	66.897	MWD+IFR1+MS
2200.000	12.081	312.286	2184.551	9.597	0.000	8.553	0.000	3.493	0.000	0.000	9.910	8.217	67.653	MWD+IFR1+MS
2300.000	12.081	312.286	2282.336	9.918	0.000	8.916	0.000	3.587	0.000	0.000	10.237	8.569	68.391	MWD+IFR1+MS
2400.000	12.081	312.286	2380.122	10.243	0.000	9.282	0.000	3.683	0.000	0.000	10.568	8.923	69.114	MWD+IFR1+MS
2500.000	12.081	312.286	2477.907	10.573	0.000	9.649	0.000	3.781	0.000	0.000	10.903	9.279	69.820	MWD+IFR1+MS
2600.000	12.081	312.286	2575.693	10.906	0.000	10.018	0.000	3.882	0.000	0.000	11.242	9.636	70.509	MWD+IFR1+MS
2700.000	12.081	312.286	2673.478	11.243	0.000	10.388	0.000	3.984	0.000	0.000	11.584	9.995	71.182	MWD+IFR1+MS
2800.000	12.081	312.286	2771.264	11.584	0.000	10.759	0.000	4.089	0.000	0.000	11.929	10.355	71.839	MWD+IFR1+MS
2900.000	12.081	312.286	2869.049	11.927	0.000	11.132	0.000	4.196	0.000	0.000	12.277	10.717	72.480	MWD+IFR1+MS
3000.000	12.081	312.286	2966.834	12.273	0.000	11.506	0.000	4.305	0.000	0.000	12.628	11.079	73.105	MWD+IFR1+MS

Well Plan Report

3100.000	12.081	312.286	3064.620	12.621	0.000	11.880	0.000	4.415	0.000	0.000	12.981	11.442	73.715	MWD+IFR1+MS
3200.000	12.081	312.286	3162.405	12.971	0.000	12.256	0.000	4.527	0.000	0.000	13.335	11.807	74.309	MWD+IFR1+MS
3300.000	12.081	312.286	3260.191	13.324	0.000	12.632	0.000	4.641	0.000	0.000	13.692	12.172	74.888	MWD+IFR1+MS
3400.000	12.081	312.286	3357.976	13.678	0.000	13.009	0.000	4.757	0.000	0.000	14.051	12.537	75.452	MWD+IFR1+MS
3500.000	12.081	312.286	3455.762	14.035	0.000	13.386	0.000	4.875	0.000	0.000	14.412	12.904	76.001	MWD+IFR1+MS
3600.000	12.081	312.286	3553.547	14.393	0.000	13.764	0.000	4.994	0.000	0.000	14.774	13.271	76.537	MWD+IFR1+MS
3700.000	12.081	312.286	3651.333	14.752	0.000	14.143	0.000	5.114	0.000	0.000	15.137	13.638	77.058	MWD+IFR1+MS
3800.000	12.081	312.286	3749.118	15.113	0.000	14.522	0.000	5.236	0.000	0.000	15.502	14.006	77.566	MWD+IFR1+MS
3900.000	12.081	312.286	3846.903	15.475	0.000	14.902	0.000	5.360	0.000	0.000	15.868	14.375	78.061	MWD+IFR1+MS
4000.000	12.081	312.286	3944.689	15.839	0.000	15.282	0.000	5.486	0.000	0.000	16.235	14.744	78.542	MWD+IFR1+MS
4100.000	12.081	312.286	4042.474	16.203	0.000	15.662	0.000	5.613	0.000	0.000	16.603	15.113	79.011	MWD+IFR1+MS
4200.000	12.081	312.286	4140.260	16.569	0.000	16.043	0.000	5.741	0.000	0.000	16.973	15.483	79.468	MWD+IFR1+MS
4300.000	12.081	312.286	4238.045	16.935	0.000	16.424	0.000	5.872	0.000	0.000	17.343	15.853	79.913	MWD+IFR1+MS
4400.000	12.081	312.286	4335.831	17.303	0.000	16.806	0.000	6.003	0.000	0.000	17.714	16.224	80.346	MWD+IFR1+MS
4500.000	12.081	312.286	4433.616	17.671	0.000	17.188	0.000	6.137	0.000	0.000	18.086	16.595	80.767	MWD+IFR1+MS
4600.000	12.081	312.286	4531.402	18.041	0.000	17.570	0.000	6.272	0.000	0.000	18.459	16.966	81.178	MWD+IFR1+MS
4700.000	12.081	312.286	4629.187	18.411	0.000	17.952	0.000	6.409	0.000	0.000	18.832	17.337	81.578	MWD+IFR1+MS
4800.000	12.081	312.286	4726.972	18.781	0.000	18.334	0.000	6.547	0.000	0.000	19.207	17.709	81.967	MWD+IFR1+MS
4900.000	12.081	312.286	4824.758	19.153	0.000	18.717	0.000	6.687	0.000	0.000	19.581	18.081	82.347	MWD+IFR1+MS
5000.000	12.081	312.286	4922.543	19.525	0.000	19.100	0.000	6.829	0.000	0.000	19.957	18.453	82.716	MWD+IFR1+MS
5100.000	12.081	312.286	5020.329	19.898	0.000	19.483	0.000	6.972	0.000	0.000	20.333	18.826	83.076	MWD+IFR1+MS
5200.000	12.081	312.286	5118.114	20.271	0.000	19.867	0.000	7.118	0.000	0.000	20.710	19.199	83.427	MWD+IFR1+MS
5300.000	12.081	312.286	5215.900	20.645	0.000	20.250	0.000	7.265	0.000	0.000	21.087	19.572	83.768	MWD+IFR1+MS
5386.454	12.081	312.286	5300.439	20.966	0.000	20.580	0.000	7.393	0.000	0.000	21.410	19.894	84.046	MWD+IFR1+MS
5400.000	11.810	312.286	5313.692	21.020	0.000	20.631	0.000	7.413	0.000	0.000	21.458	19.945	84.085	MWD+IFR1+MS
5500.000	9.810	312.286	5411.912	21.442	0.000	21.004	0.000	7.565	0.000	0.000	21.849	20.323	83.680	MWD+IFR1+MS
5600.000	7.810	312.286	5510.727	21.917	0.000	21.375	0.000	7.720	0.000	0.000	22.303	20.712	81.955	MWD+IFR1+MS
5700.000	5.810	312.286	5610.017	22.357	0.000	21.737	0.000	7.866	0.000	0.000	22.750	21.092	80.355	MWD+IFR1+MS
5800.000	3.810	312.286	5709.660	22.761	0.000	22.091	0.000	8.006	0.000	0.000	23.189	21.461	78.882	MWD+IFR1+MS
5900.000	1.810	312.286	5809.535	23.130	0.000	22.437	0.000	8.140	0.000	0.000	23.621	21.821	77.534	MWD+IFR1+MS
5990.480	0.000	0.000	5900.000	23.901	0.000	22.211	0.000	8.258	0.000	0.000	23.983	22.123	77.695	MWD+IFR1+MS
6000.000	0.000	0.000	5909.520	23.931	0.000	22.242	0.000	8.270	0.000	0.000	24.012	22.155	77.710	MWD+IFR1+MS
6100.000	0.000	0.000	6009.520	24.249	0.000	22.573	0.000	8.400	0.000	0.000	24.326	22.489	77.904	MWD+IFR1+MS

6200.000	0.000	0.000	6109.520	24.572	0.000	22.910	0.000	8.533	0.000	0.000	24.645	22.832	78.251	MWD+IFR1+MS
6300.000	0.000	0.000	6209.520	24.897	0.000	23.248	0.000	8.668	0.000	0.000	24.964	23.175	78.598	MWD+IFR1+MS
6400.000	0.000	0.000	6309.520	25.222	0.000	23.586	0.000	8.805	0.000	0.000	25.285	23.519	78.944	MWD+IFR1+MS
6500.000	0.000	0.000	6409.520	25.548	0.000	23.925	0.000	8.946	0.000	0.000	25.607	23.863	79.289	MWD+IFR1+MS
6600.000	0.000	0.000	6509.520	25.875	0.000	24.264	0.000	9.089	0.000	0.000	25.929	24.207	79.634	MWD+IFR1+MS
6700.000	0.000	0.000	6609.520	26.203	0.000	24.604	0.000	9.234	0.000	0.000	26.253	24.551	79.978	MWD+IFR1+MS
6800.000	0.000	0.000	6709.520	26.532	0.000	24.945	0.000	9.383	0.000	0.000	26.578	24.896	80.321	MWD+IFR1+MS
6900.000	0.000	0.000	6809.520	26.862	0.000	25.286	0.000	9.534	0.000	0.000	26.904	25.241	80.662	MWD+IFR1+MS
7000.000	0.000	0.000	6909.520	27.192	0.000	25.627	0.000	9.688	0.000	0.000	27.231	25.586	81.003	MWD+IFR1+MS
7100.000	0.000	0.000	7009.520	27.523	0.000	25.969	0.000	9.844	0.000	0.000	27.559	25.931	81.343	MWD+IFR1+MS
7200.000	0.000	0.000	7109.520	27.854	0.000	26.312	0.000	10.004	0.000	0.000	27.887	26.277	81.681	MWD+IFR1+MS
7300.000	0.000	0.000	7209.520	28.187	0.000	26.654	0.000	10.166	0.000	0.000	28.217	26.623	82.018	MWD+IFR1+MS
7400.000	0.000	0.000	7309.520	28.520	0.000	26.998	0.000	10.331	0.000	0.000	28.547	26.969	82.353	MWD+IFR1+MS
7500.000	0.000	0.000	7409.520	28.853	0.000	27.341	0.000	10.499	0.000	0.000	28.878	27.315	82.687	MWD+IFR1+MS
7600.000	0.000	0.000	7509.520	29.187	0.000	27.685	0.000	10.670	0.000	0.000	29.210	27.662	83.019	MWD+IFR1+MS
7700.000	0.000	0.000	7609.520	29.522	0.000	28.030	0.000	10.844	0.000	0.000	29.542	28.008	83.350	MWD+IFR1+MS
7800.000	0.000	0.000	7709.520	29.857	0.000	28.374	0.000	11.021	0.000	0.000	29.875	28.355	83.679	MWD+IFR1+MS
7900.000	0.000	0.000	7809.520	30.193	0.000	28.719	0.000	11.201	0.000	0.000	30.209	28.702	84.006	MWD+IFR1+MS
8000.000	0.000	0.000	7909.520	30.529	0.000	29.065	0.000	11.383	0.000	0.000	30.544	29.050	84.331	MWD+IFR1+MS
8100.000	0.000	0.000	8009.520	30.866	0.000	29.410	0.000	11.569	0.000	0.000	30.879	29.397	84.654	MWD+IFR1+MS
8200.000	0.000	0.000	8109.520	31.203	0.000	29.756	0.000	11.757	0.000	0.000	31.214	29.745	84.975	MWD+IFR1+MS
8300.000	0.000	0.000	8209.520	31.541	0.000	30.102	0.000	11.948	0.000	0.000	31.551	30.092	85.293	MWD+IFR1+MS
8400.000	0.000	0.000	8309.520	31.879	0.000	30.449	0.000	12.143	0.000	0.000	31.888	30.440	85.610	MWD+IFR1+MS
8500.000	0.000	0.000	8409.520	32.218	0.000	30.796	0.000	12.340	0.000	0.000	32.225	30.788	85.924	MWD+IFR1+MS
8600.000	0.000	0.000	8509.520	32.557	0.000	31.143	0.000	12.541	0.000	0.000	32.563	31.137	86.237	MWD+IFR1+MS
8700.000	0.000	0.000	8609.520	32.897	0.000	31.490	0.000	12.744	0.000	0.000	32.902	31.485	86.546	MWD+IFR1+MS
8800.000	0.000	0.000	8709.520	33.236	0.000	31.838	0.000	12.951	0.000	0.000	33.241	31.833	86.854	MWD+IFR1+MS
8900.000	0.000	0.000	8809.520	33.577	0.000	32.186	0.000	13.160	0.000	0.000	33.580	32.182	87.159	MWD+IFR1+MS
9000.000	0.000	0.000	8909.520	33.917	0.000	32.534	0.000	13.373	0.000	0.000	33.920	32.531	87.462	MWD+IFR1+MS
9100.000	0.000	0.000	9009.520	34.258	0.000	32.882	0.000	13.588	0.000	0.000	34.260	32.880	87.762	MWD+IFR1+MS
9150.283	0.000	0.000	9059.803	34.428	0.000	33.055	0.000	13.698	0.000	0.000	34.430	33.053	87.832	MWD+IFR1+MS
9200.000	3.977	359.721	9109.480	34.703	0.000	33.227	0.000	13.808	0.000	0.000	34.620	33.225	88.003	MWD+IFR1+MS
9300.000	11.977	359.721	9208.431	35.478	0.000	33.580	0.000	14.077	0.000	0.000	35.635	33.580	89.834	MWD+IFR1+MS

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9400.000	19.977	359.721	9304.490	36.199	0.000	33.936	0.000	14.527	0.000	0.000	37.072	33.934	91.169	MWD+IFR1+MS
9500.000	27.977	359.721	9395.787	36.339	0.000	34.290	0.000	15.221	0.000	0.000	38.347	34.284	91.805	MWD+IFR1+MS
9600.000	35.977	359.721	9480.544	35.945	0.000	34.636	0.000	16.195	0.000	0.000	39.436	34.627	92.227	MWD+IFR1+MS
9700.000	43.977	359.721	9557.111	35.081	0.000	34.973	0.000	17.447	0.000	0.000	40.327	34.958	92.581	MWD+IFR1+MS
9800.000	51.977	359.721	9623.999	33.838	0.000	35.296	0.000	18.938	0.000	0.000	41.018	35.277	92.933	MWD+IFR1+MS
9900.000	59.977	359.721	9679.906	32.336	0.000	35.605	0.000	20.612	0.000	0.000	41.519	35.580	93.319	MWD+IFR1+MS
10000.000	67.977	359.721	9723.743	30.730	0.000	35.897	0.000	22.405	0.000	0.000	41.849	35.865	93.762	MWD+IFR1+MS
10100.000	75.977	359.721	9754.657	29.211	0.000	36.171	0.000	24.249	0.000	0.000	42.037	36.131	94.277	MWD+IFR1+MS
10200.000	83.977	359.721	9772.047	27.999	0.000	36.424	0.000	26.083	0.000	0.000	42.122	36.375	94.862	MWD+IFR1+MS
10275.283	90.000	359.721	9776.000	26.920	0.000	36.597	0.000	26.920	0.000	0.000	42.145	36.539	95.323	MWD+IFR1+MS
10300.000	90.000	359.721	9776.000	26.977	0.000	36.650	0.000	26.977	0.000	0.000	42.150	36.590	95.481	MWD+IFR1+MS
10400.000	90.000	359.721	9776.000	27.166	0.000	36.886	0.000	27.166	0.000	0.000	42.169	36.813	96.165	MWD+IFR1+MS
10500.000	90.000	359.721	9776.000	27.379	0.000	37.143	0.000	27.379	0.000	0.000	42.190	37.057	96.929	MWD+IFR1+MS
10600.000	90.000	359.721	9776.000	27.613	0.000	37.420	0.000	27.613	0.000	0.000	42.214	37.317	97.786	MWD+IFR1+MS
10700.000	90.000	359.721	9776.000	27.868	0.000	37.715	0.000	27.868	0.000	0.000	42.242	37.593	98.758	MWD+IFR1+MS
10800.000	90.000	359.721	9776.000	28.142	0.000	38.028	0.000	28.142	0.000	0.000	42.273	37.884	99.872	MWD+IFR1+MS
10900.000	90.000	359.721	9776.000	28.435	0.000	38.359	0.000	28.435	0.000	0.000	42.309	38.189	101.163	MWD+IFR1+MS
11000.000	90.000	359.721	9776.000	28.746	0.000	38.707	0.000	28.746	0.000	0.000	42.350	38.505	102.679	MWD+IFR1+MS
11100.000	90.000	359.721	9776.000	29.076	0.000	39.072	0.000	29.076	0.000	0.000	42.400	38.831	104.478	MWD+IFR1+MS
11200.000	90.000	359.721	9776.000	29.422	0.000	39.453	0.000	29.422	0.000	0.000	42.459	39.164	106.638	MWD+IFR1+MS
11300.000	90.000	359.721	9776.000	29.785	0.000	39.850	0.000	29.785	0.000	0.000	42.531	39.500	109.255	MWD+IFR1+MS
11400.000	90.000	359.721	9776.000	30.165	0.000	40.263	0.000	30.165	0.000	0.000	42.620	39.835	112.441	MWD+IFR1+MS
11500.000	90.000	359.721	9776.000	30.559	0.000	40.690	0.000	30.559	0.000	0.000	42.732	40.162	116.308	MWD+IFR1+MS
11600.000	90.000	359.721	9776.000	30.969	0.000	41.132	0.000	30.969	0.000	0.000	42.876	40.473	120.920	MWD+IFR1+MS
11700.000	90.000	359.721	9776.000	31.393	0.000	41.587	0.000	31.393	0.000	0.000	43.059	40.759	126.222	MWD+IFR1+MS
11800.000	90.000	359.721	9776.000	31.830	0.000	42.056	0.000	31.830	0.000	0.000	43.290	41.011	131.969	MWD+IFR1+MS
11900.000	90.000	359.721	9776.000	32.281	0.000	42.539	0.000	32.281	0.000	0.000	43.574	41.223	-42.256	MWD+IFR1+MS
12000.000	90.000	359.721	9776.000	32.744	0.000	43.033	0.000	32.744	0.000	0.000	43.910	41.398	-36.879	MWD+IFR1+MS
12100.000	90.000	359.721	9776.000	33.220	0.000	43.540	0.000	33.220	0.000	0.000	44.292	41.538	-32.176	MWD+IFR1+MS
12200.000	90.000	359.721	9776.000	33.707	0.000	44.059	0.000	33.707	0.000	0.000	44.713	41.651	-28.224	MWD+IFR1+MS
12300.000	90.000	359.721	9776.000	34.205	0.000	44.589	0.000	34.205	0.000	0.000	45.168	41.743	-24.968	MWD+IFR1+MS
12400.000	90.000	359.721	9776.000	34.713	0.000	45.130	0.000	34.713	0.000	0.000	45.649	41.820	-22.301	MWD+IFR1+MS
12500.000	90.000	359.721	9776.000	35.232	0.000	45.682	0.000	35.232	0.000	0.000	46.153	41.886	-20.109	MWD+IFR1+MS

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12600.000	90.000	359.721	9776.000	35.761	0.000	46.244	0.000	35.761	0.000	46.676	41.943	-18.294	MWD+IFR1+MS
12700.000	90.000	359.721	9776.000	36.298	0.000	46.816	0.000	36.298	0.000	47.215	41.994	-16.775	MWD+IFR1+MS
12800.000	90.000	359.721	9776.000	36.845	0.000	47.397	0.000	36.845	0.000	47.769	42.040	-15.491	MWD+IFR1+MS
12900.000	90.000	359.721	9776.000	37.400	0.000	47.987	0.000	37.400	0.000	48.336	42.083	-14.395	MWD+IFR1+MS
13000.000	90.000	359.721	9776.000	37.963	0.000	48.586	0.000	37.963	0.000	48.915	42.123	-13.451	MWD+IFR1+MS
13100.000	90.000	359.721	9776.000	38.534	0.000	49.194	0.000	38.534	0.000	49.506	42.161	-12.629	MWD+IFR1+MS
13200.000	90.000	359.721	9776.000	39.113	0.000	49.809	0.000	39.113	0.000	50.106	42.198	-11.908	MWD+IFR1+MS
13300.000	90.000	359.721	9776.000	39.698	0.000	50.433	0.000	39.698	0.000	50.716	42.233	-11.271	MWD+IFR1+MS
13400.000	90.000	359.721	9776.000	40.290	0.000	51.064	0.000	40.290	0.000	51.335	42.268	-10.704	MWD+IFR1+MS
13500.000	90.000	359.721	9776.000	40.889	0.000	51.702	0.000	40.889	0.000	51.963	42.302	-10.196	MWD+IFR1+MS
13600.000	90.000	359.721	9776.000	41.494	0.000	52.348	0.000	41.494	0.000	52.599	42.335	-9.739	MWD+IFR1+MS
13700.000	90.000	359.721	9776.000	42.105	0.000	53.000	0.000	42.105	0.000	53.242	42.368	-9.325	MWD+IFR1+MS
13800.000	90.000	359.721	9776.000	42.721	0.000	53.659	0.000	42.721	0.000	53.893	42.401	-8.948	MWD+IFR1+MS
13900.000	90.000	359.721	9776.000	43.343	0.000	54.324	0.000	43.343	0.000	54.550	42.433	-8.604	MWD+IFR1+MS
14000.000	90.000	359.721	9776.000	43.970	0.000	54.995	0.000	43.970	0.000	55.214	42.466	-8.288	MWD+IFR1+MS
14100.000	90.000	359.721	9776.000	44.603	0.000	55.672	0.000	44.603	0.000	55.885	42.499	-7.998	MWD+IFR1+MS
14200.000	90.000	359.721	9776.000	45.240	0.000	56.354	0.000	45.240	0.000	56.561	42.531	-7.729	MWD+IFR1+MS
14300.000	90.000	359.721	9776.000	45.881	0.000	57.042	0.000	45.881	0.000	57.244	42.564	-7.480	MWD+IFR1+MS
14400.000	90.000	359.721	9776.000	46.527	0.000	57.736	0.000	46.527	0.000	57.932	42.597	-7.248	MWD+IFR1+MS
14500.000	90.000	359.721	9776.000	47.177	0.000	58.434	0.000	47.177	0.000	58.625	42.631	-7.032	MWD+IFR1+MS
14600.000	90.000	359.721	9776.000	47.831	0.000	59.137	0.000	47.831	0.000	59.324	42.664	-6.830	MWD+IFR1+MS
14700.000	90.000	359.721	9776.000	48.489	0.000	59.845	0.000	48.489	0.000	60.027	42.698	-6.641	MWD+IFR1+MS
14800.000	90.000	359.721	9776.000	49.151	0.000	60.557	0.000	49.151	0.000	60.736	42.732	-6.464	MWD+IFR1+MS
14900.000	90.000	359.721	9776.000	49.817	0.000	61.274	0.000	49.817	0.000	61.448	42.766	-6.296	MWD+IFR1+MS
15000.000	90.000	359.721	9776.000	50.485	0.000	61.995	0.000	50.485	0.000	62.166	42.801	-6.139	MWD+IFR1+MS
15100.000	90.000	359.721	9776.000	51.157	0.000	62.720	0.000	51.157	0.000	62.887	42.836	-5.990	MWD+IFR1+MS
15200.000	90.000	359.721	9776.000	51.833	0.000	63.449	0.000	51.833	0.000	63.613	42.871	-5.849	MWD+IFR1+MS
15300.000	90.000	359.721	9776.000	52.511	0.000	64.182	0.000	52.511	0.000	64.343	42.907	-5.715	MWD+IFR1+MS
15400.000	90.000	359.721	9776.000	53.192	0.000	64.918	0.000	53.192	0.000	65.076	42.943	-5.589	MWD+IFR1+MS
15500.000	90.000	359.721	9776.000	53.876	0.000	65.658	0.000	53.876	0.000	65.813	42.980	-5.468	MWD+IFR1+MS
15600.000	90.000	359.721	9776.000	54.563	0.000	66.402	0.000	54.563	0.000	66.554	43.017	-5.353	MWD+IFR1+MS
15700.000	90.000	359.721	9776.000	55.252	0.000	67.149	0.000	55.252	0.000	67.298	43.054	-5.244	MWD+IFR1+MS
15800.000	90.000	359.721	9776.000	55.944	0.000	67.899	0.000	55.944	0.000	68.045	43.092	-5.140	MWD+IFR1+MS

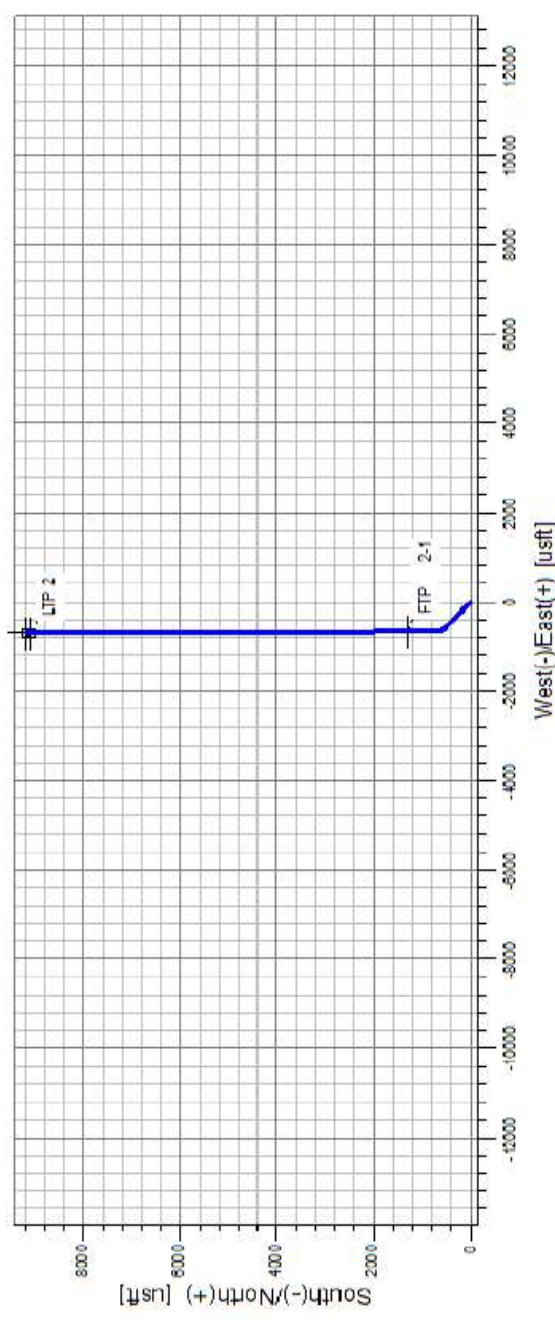
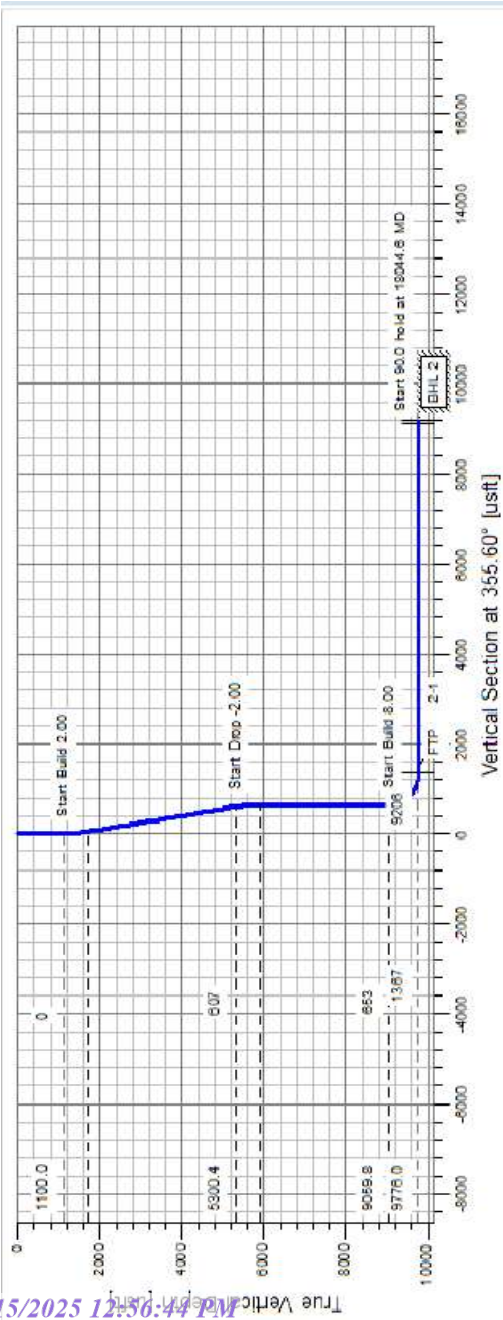
15900.000	90.000	359.721	9776.000	56.639	0.000	68.652	0.000	56.639	0.000	68.796	43.130	-5.040	MWD+IFR1+MS
16000.000	90.000	359.721	9776.000	57.335	0.000	69.408	0.000	57.335	0.000	69.550	43.169	-4.944	MWD+IFR1+MS
16100.000	90.000	359.721	9776.000	58.034	0.000	70.167	0.000	58.034	0.000	70.306	43.208	-4.853	MWD+IFR1+MS
16200.000	90.000	359.721	9776.000	58.735	0.000	70.929	0.000	58.735	0.000	71.066	43.247	-4.765	MWD+IFR1+MS
16300.000	90.000	359.721	9776.000	59.438	0.000	71.693	0.000	59.438	0.000	71.828	43.287	-4.681	MWD+IFR1+MS
16400.000	90.000	359.721	9776.000	60.143	0.000	72.460	0.000	60.143	0.000	72.593	43.327	-4.600	MWD+IFR1+MS
16500.000	90.000	359.721	9776.000	60.851	0.000	73.230	0.000	60.851	0.000	73.361	43.368	-4.523	MWD+IFR1+MS
16600.000	90.000	359.721	9776.000	61.560	0.000	74.002	0.000	61.560	0.000	74.131	43.409	-4.448	MWD+IFR1+MS
16700.000	90.000	359.721	9776.000	62.270	0.000	74.777	0.000	62.270	0.000	74.904	43.451	-4.376	MWD+IFR1+MS
16800.000	90.000	359.721	9776.000	62.983	0.000	75.554	0.000	62.983	0.000	75.679	43.493	-4.307	MWD+IFR1+MS
16900.000	90.000	359.721	9776.000	63.697	0.000	76.333	0.000	63.697	0.000	76.456	43.535	-4.240	MWD+IFR1+MS
17000.000	90.000	359.721	9776.000	64.413	0.000	77.114	0.000	64.413	0.000	77.236	43.578	-4.175	MWD+IFR1+MS
17100.000	90.000	359.721	9776.000	65.131	0.000	77.898	0.000	65.131	0.000	78.018	43.621	-4.113	MWD+IFR1+MS
17200.000	90.000	359.721	9776.000	65.850	0.000	78.683	0.000	65.850	0.000	78.802	43.665	-4.053	MWD+IFR1+MS
17300.000	90.000	359.721	9776.000	66.570	0.000	79.471	0.000	66.570	0.000	79.588	43.709	-3.994	MWD+IFR1+MS
17400.000	90.000	359.721	9776.000	67.292	0.000	80.260	0.000	67.292	0.000	80.376	43.754	-3.938	MWD+IFR1+MS
17500.000	90.000	359.721	9776.000	68.016	0.000	81.052	0.000	68.016	0.000	81.166	43.799	-3.884	MWD+IFR1+MS
17600.000	90.000	359.721	9776.000	68.740	0.000	81.845	0.000	68.740	0.000	81.957	43.845	-3.831	MWD+IFR1+MS
17700.000	90.000	359.721	9776.000	69.466	0.000	82.640	0.000	69.466	0.000	82.751	43.891	-3.779	MWD+IFR1+MS
17800.000	90.000	359.721	9776.000	70.194	0.000	83.437	0.000	70.194	0.000	83.546	43.937	-3.730	MWD+IFR1+MS
17900.000	90.000	359.721	9776.000	70.922	0.000	84.235	0.000	70.922	0.000	84.343	43.984	-3.681	MWD+IFR1+MS
18000.000	90.000	359.721	9776.000	71.652	0.000	85.035	0.000	71.652	0.000	85.142	44.031	-3.635	MWD+IFR1+MS
18044.575	90.000	359.721	9776.000	71.976	0.000	85.391	0.000	71.976	0.000	85.497	44.052	-3.614	MWD+IFR1+MS
18100.000	90.000	359.721	9776.000	72.380	0.000	85.833	0.000	72.380	0.000	85.939	44.079	-3.589	MWD+IFR1+MS
18134.581	90.000	359.721	9776.000	72.633	0.000	86.110	0.000	72.633	0.000	86.215	44.096	-3.574	MWD+IFR1+MS

Plan Targets

Muy Wayno 18 402H

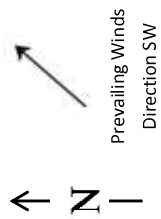
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 2	10275.25	411357.30	625872.70	6578.00	CIRCLE
LTP 2	18044.58	419126.50	625834.90	6578.00	CIRCLE
BHL 2	18134.58	419216.50	625834.40	6578.00	CIRCLE

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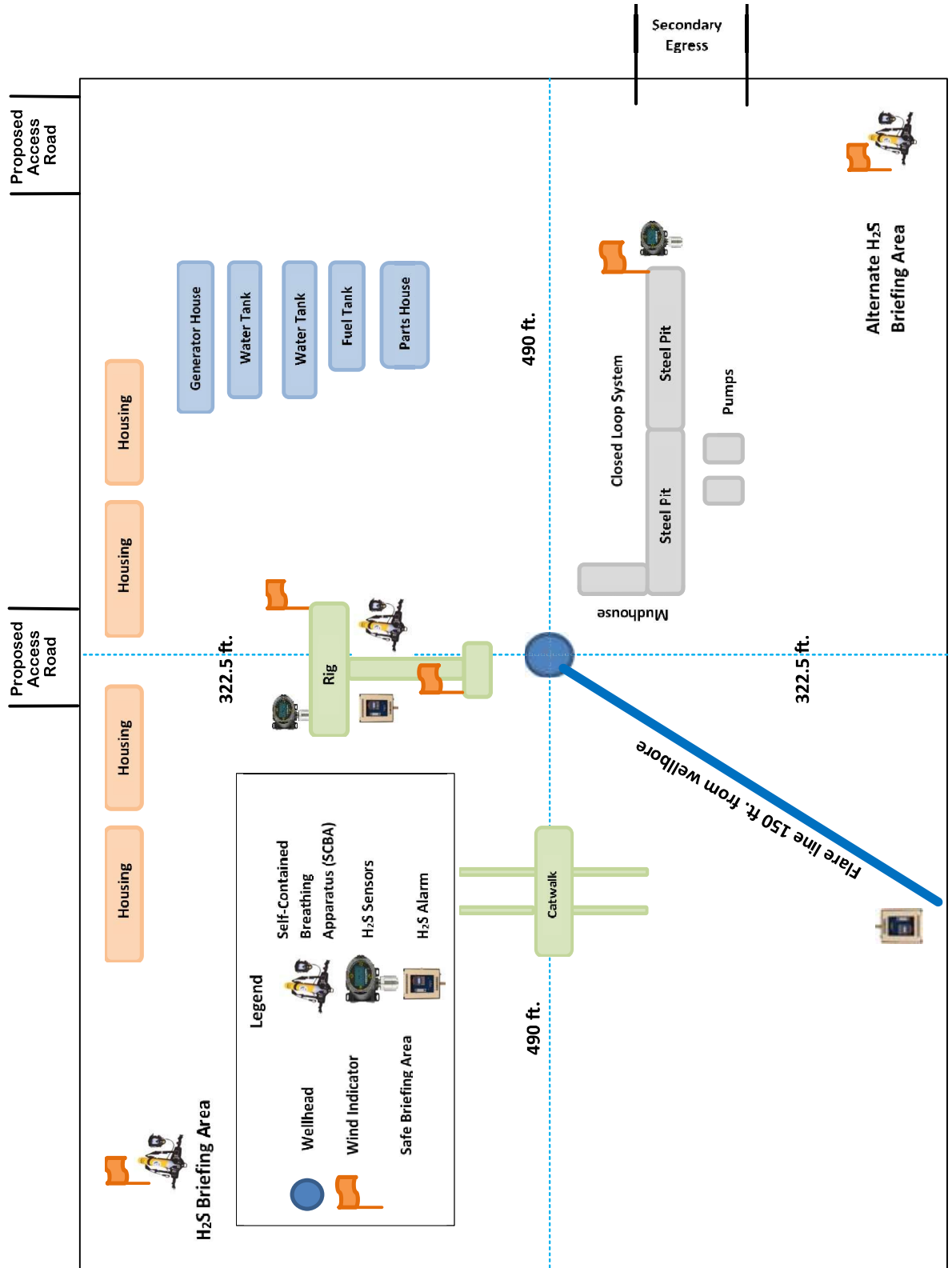


Formation	TVDSS (feet)	TVD (feet)
Rustler	2,268'	930'
Salado	1,904'	1,294'
Base of Salt	-90'	3,288'
Delaware	-322'	3,520'
Cherry Canyon	-1,225'	4,423'
Brushy Canyon	-2,778'	5,976'
Basal Brushy Canyon	-3,846'	7,044'
Bone Spring Lm.	-4,055'	7,253'
Avalon Shale	-4,163'	7,361'
Lower Avalon Shale	-4,620'	7,818'
1st Bone Spring Lime	-4,809'	8,007'
1st Bone Spring Sand	-5,012'	8,210'
2nd Bone Spring Shale	-5,259'	8,457'
2nd Bone Spring Lime	-5,437'	8,635'
2nd Bone Spring Sand	-5,851'	9,049'
2nd Bone Spring T/B Carb	-5,973'	9,171'
2nd Bone Spring C Sand	-6,079'	9,277'
3rd Bone Spring Lime	-6,102'	9,300'
Harkey	-6,430'	9,628'
3rd Bone Spring Shale	-6,478'	9,676'
3rd Shale Landing	-6,578'	9,776'
3rd Bone Spring Sand	-6,905'	10,103'

H2S Briefing Areas and Alarm Locations



Prevailing Winds
Direction SW



Intermediate Casing

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HBE0000479

CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
and 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC **OGRID:** 373075 **Date:** 09/05/2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipat ed Oil BBL/D	3 yr Anticipated decline Oil BBL/D	Anticipat ed Gas MCF/D	3 yr Anticipated decline Gas MCF/D	Anticipat ed Water BBL/D	3 yr Anticipated decline Water BBL/D
Muy Wayno 18 Fed 401H	TBD	18 T25S R30E	1436 FSL; 1314 FWL	1,100	150	2,000	500	2,250	250
Muy Wayno 18 Fed 402H	TBD	18 T25S R30E	1436 FSL; 1344 FWL	1,100	150	2,000	500	2,250	250
Muy Wayno 18 Fed 403H	TBD	18 T25S R30E	1436 FSL; 1374 FWL	1,100	150	2,000	500	2,250	250
Muy Wayno 18 Fed 404H	TBD	18 T25S R30E	1436 FSL; 1404 FWL	1,100	150	2,000	500	2,250	250
Muy Wayno 18 Fed 405H	TBD	18 T25S R30E	1436 FSL; 1434 FWL	1,100	150	2,000	500	2,250	250
Muy Wayno 18 Fed 406H	TBD	18 T25S R30E	1436 FSL; 1464 FWL	1,100	150	2,000	500	2,250	250

IV. Central Delivery Point Name: _____ Muy Wayno 18 _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Muy Wayno 18 Fed 401H	TBD	Feb 2026	TBD	TBD	TBD	TBD
Muy Wayno 18 Fed 402H	TBD	Feb 2026	TBD	TBD	TBD	TBD
Muy Wayno 18 Fed 403H	TBD	Feb 2026	TBD	TBD	TBD	TBD
Muy Wayno 18 Fed 404H	TBD	Feb 2026	TBD	TBD	TBD	TBD
Muy Wayno 18 Fed 405H	TBD	Feb 2026	TBD	TBD	TBD	TBD
Muy Wayno 18 Fed 406H	TBD	Feb 2026	TBD	TBD	TBD	TBD

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:

Terra Sebastian

Printed Name:

Terra Sebastian

Title:

Regulatory Analyst

E-mail Address:

terra.b.sebastian@exxonmobil.com

Date:

10/09/2024

Phone:

432-999-3107

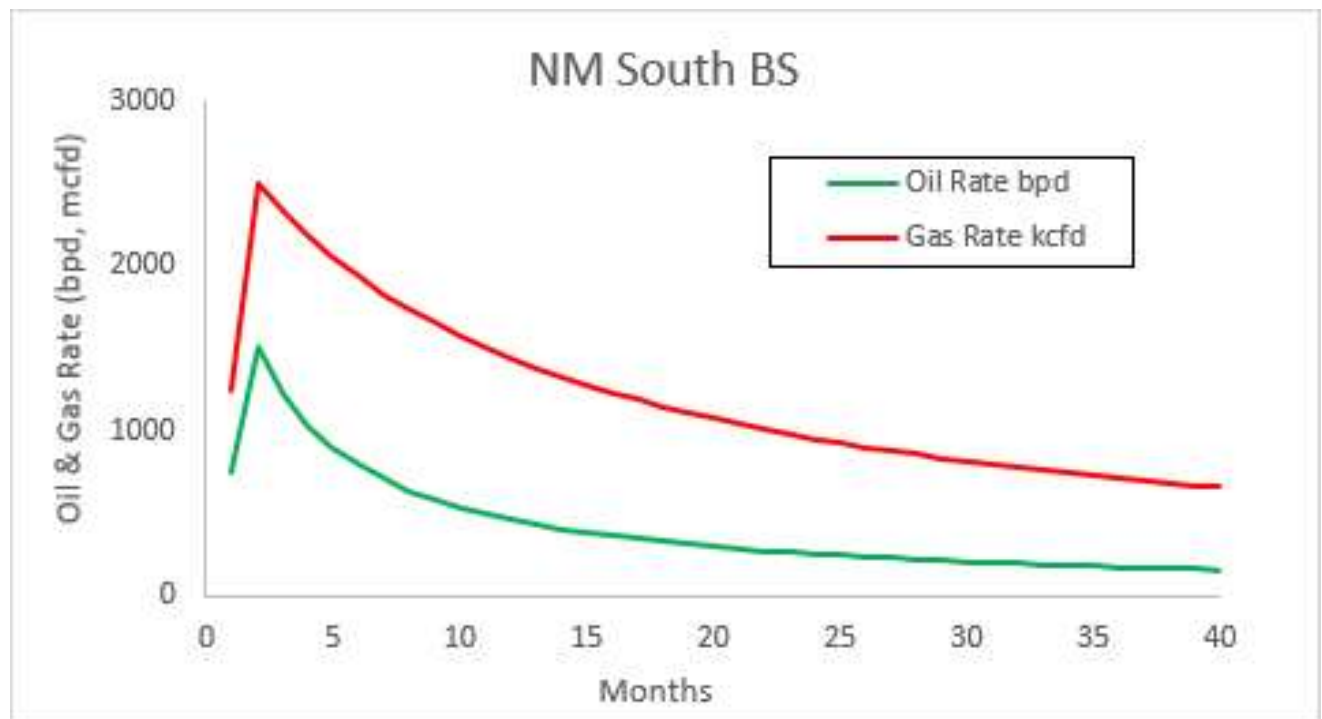
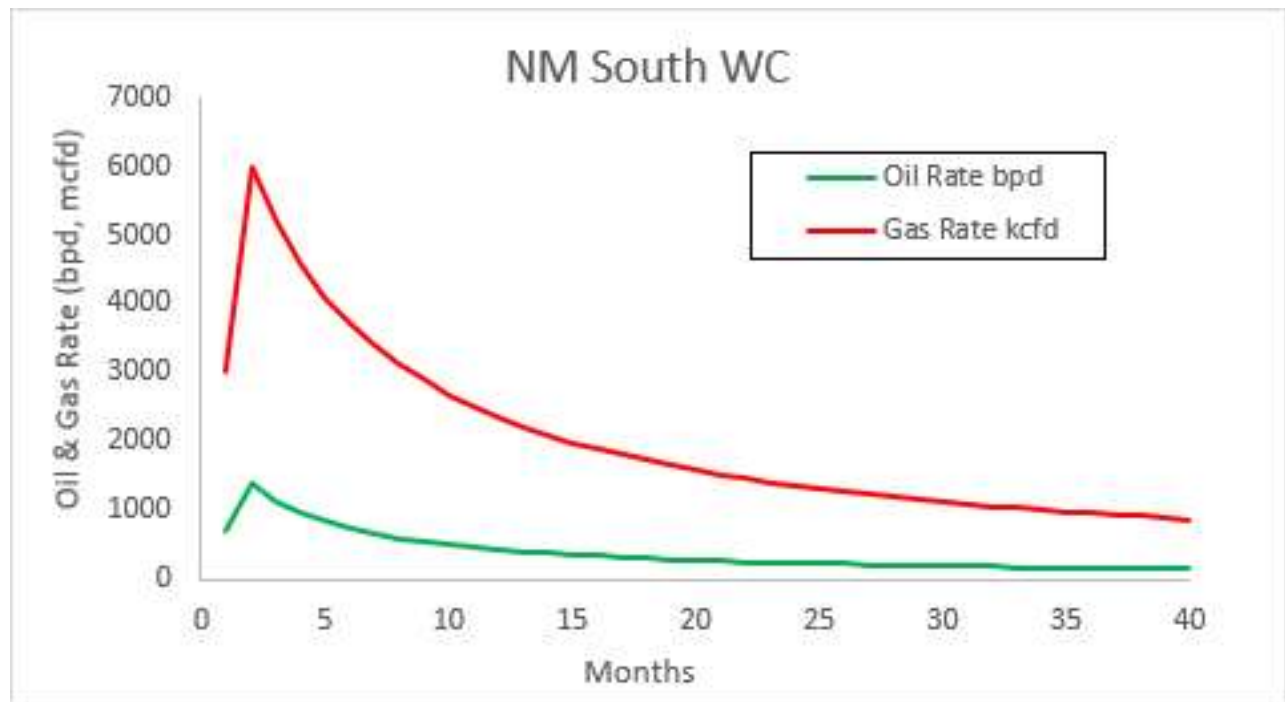
OIL CONSERVATION DIVISION**(Only applicable when submitted as a standalone form)**

Approved By:

Title:

Approval Date:

Conditions of Approval:



VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures.

Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLC will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

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Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

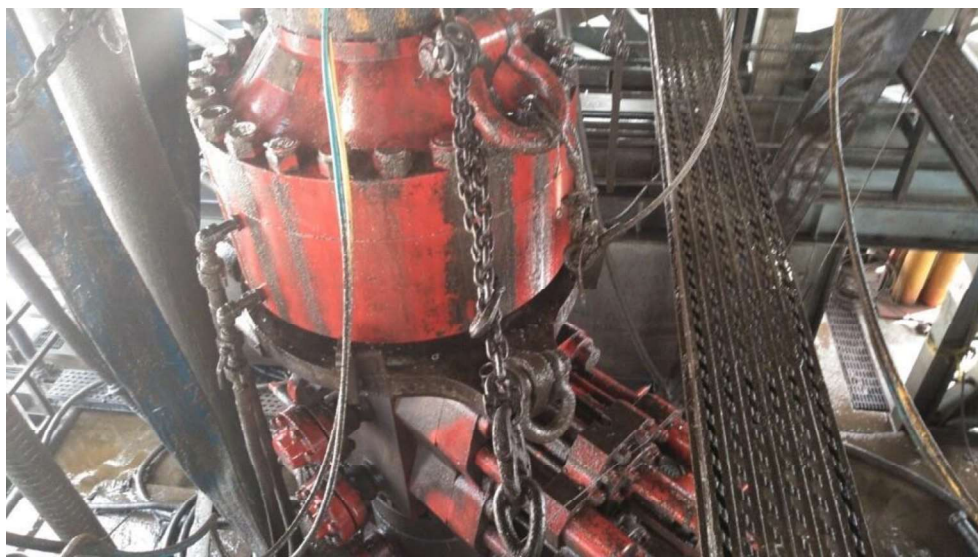


Figure 1: Winch System attached to BOP Stack

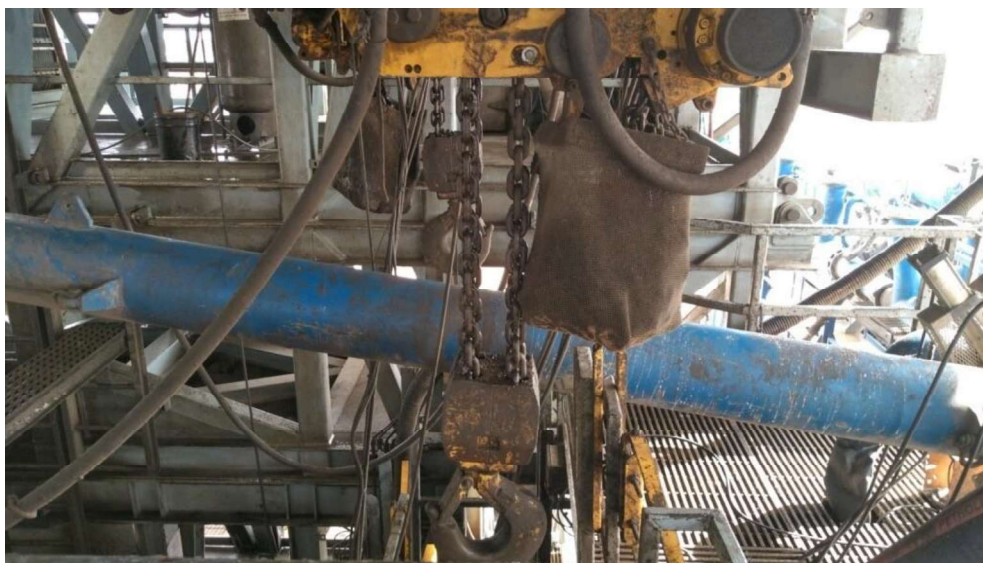


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

62 API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure ^{a,c} psig (MPa)	Pressure Test—High Pressure ^{a,c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{b,d}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
^a Pressure test evaluation periods shall be a minimum of five minutes. No visible leaks. The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure. ^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program. ^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. ^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually. ^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.			

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

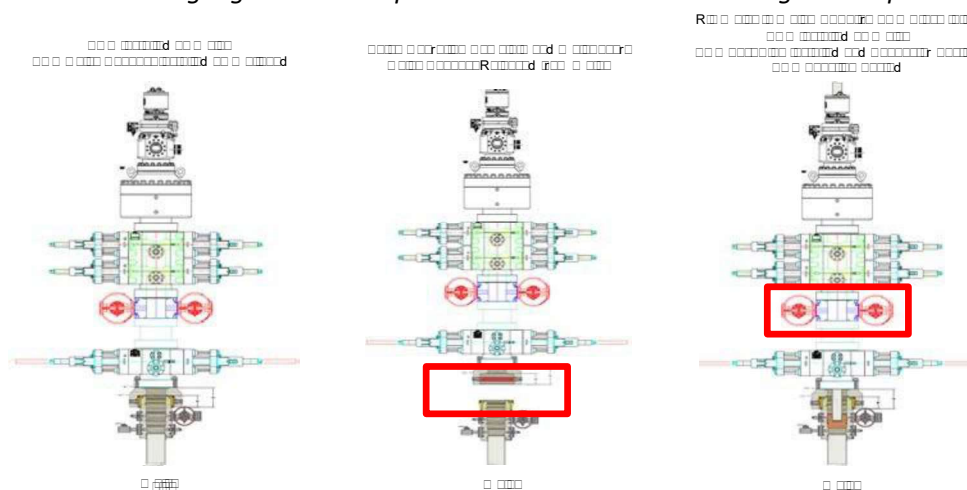
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



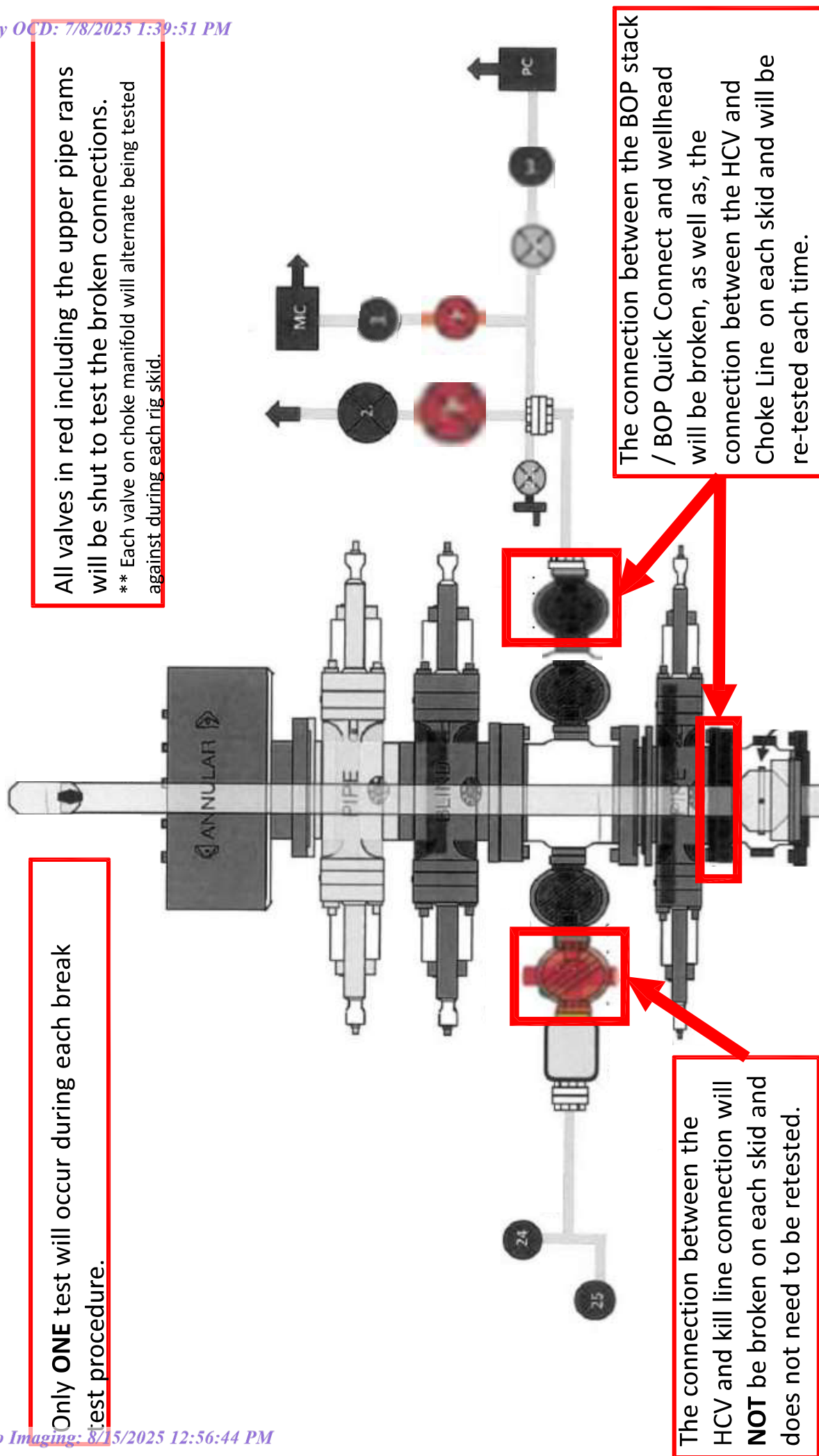
Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.



**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
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Houston, TX. 77086

PHONE: +1 (281) 602-4100**FAX: +1 (281) 602-4147****EMAIL: gesna.quality@gates.com****WEB: www.gates.com/oilandgas**

*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE:*F. OSMOS***TITLE:****QUALITY ASSURANCE****DATE:****1/25/2024**



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

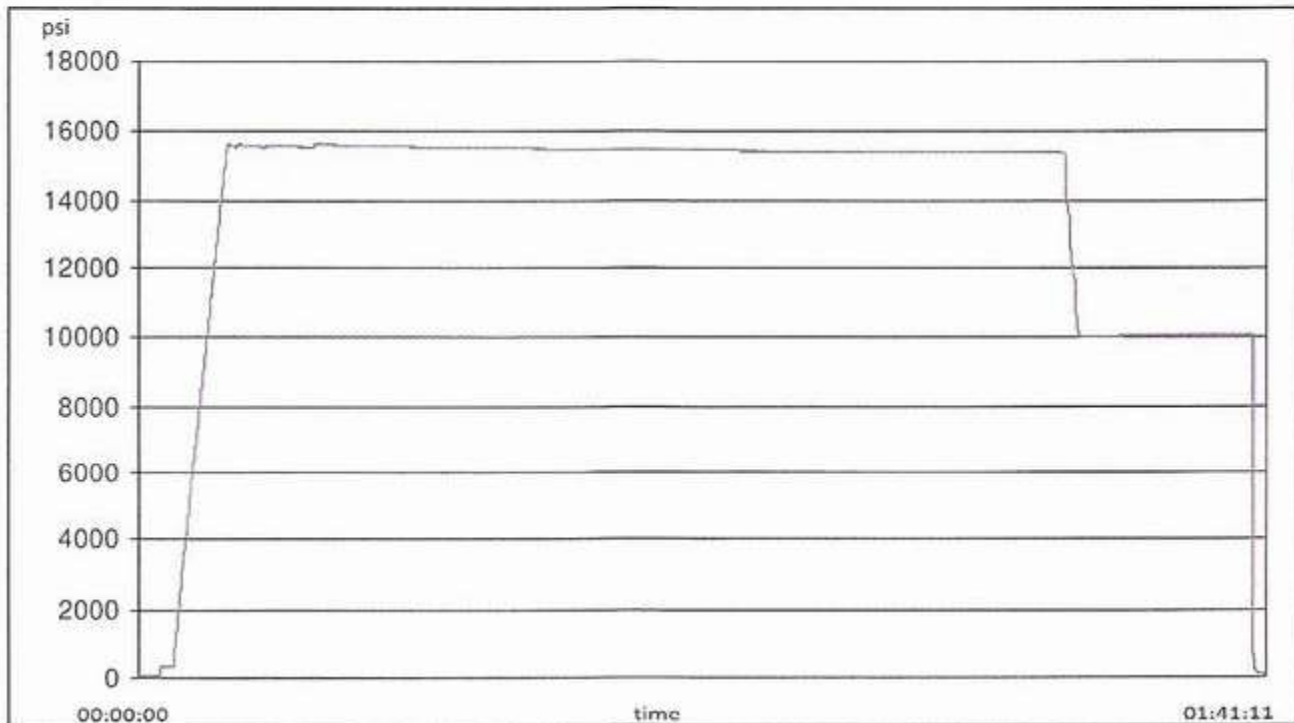
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

1/25/2024 11:48:06 AM

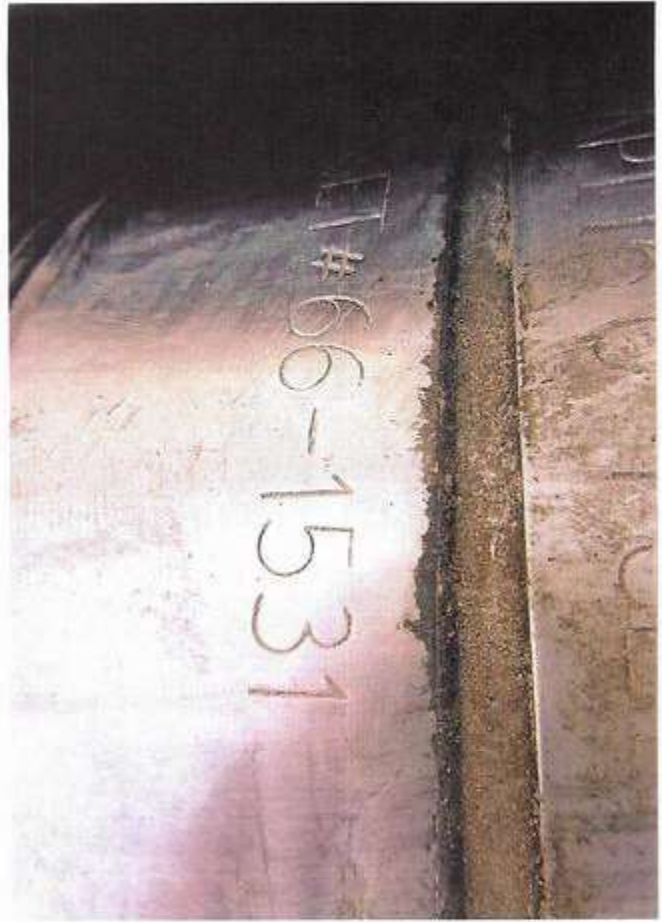
TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment





XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

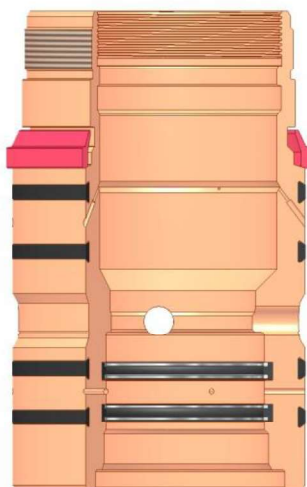
1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

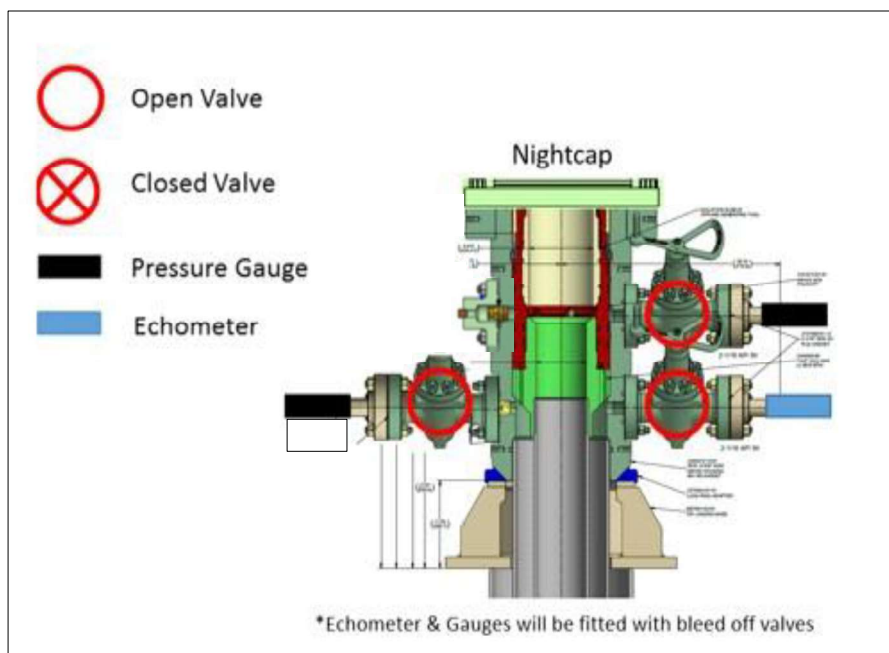
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



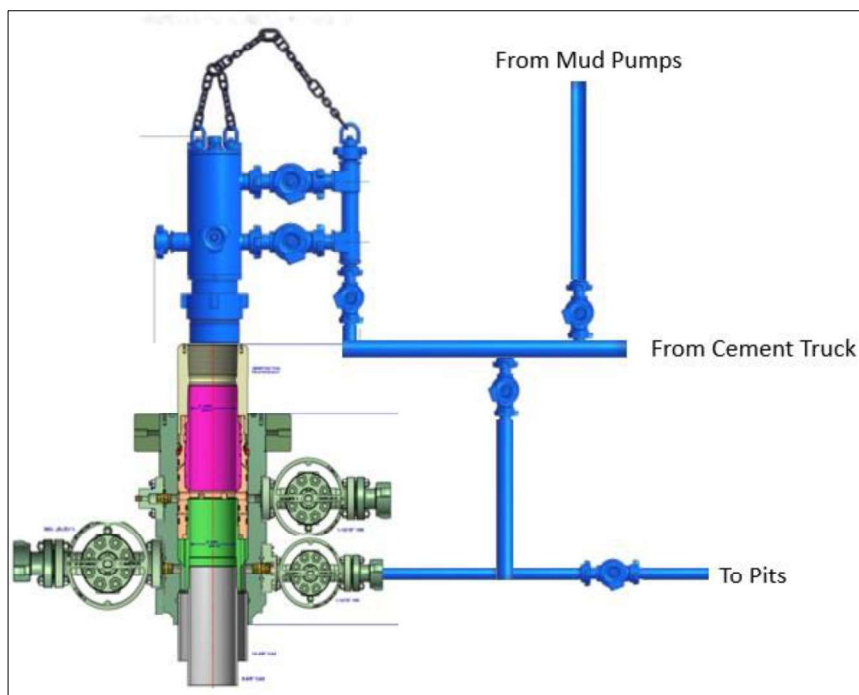
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.



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

SUPO Data Report

07/01/2025

APD ID: 10400101428

Submission Date: 10/10/2024

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Muy_Wayno_18_402H_Existing_Road_Map_20241009115556.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

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:

618.013001.00_XTO_MUY_WAYNO_18_ACCESS_ROADS_FINAL_09_23_2024_20241008080817.pdf

New road type: LOCAL

Length: 264.8

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

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

New road access plan or profile prepared? N

New road access plan

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Access road engineering design?** N**Access road engineering design****Turnout?** N**Access surfacing type:** GRAVEL**Access topsoil source:** ONSITE**Access surfacing type description:****Access onsite topsoil source depth:** 6**Offsite topsoil source description:****Onsite topsoil removal process:** STRIPPED

Access other construction information: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity.

Access miscellaneous information: The Muy Wayno 18 Federal area is accessed by existing U.S. Hwy 285 and Longhorn Road. Go Northeast on Longhorn Road. Road bend Southeast and back to Northeast approximately 4.2 miles. Turn left and go Northeast on Pipeline Road #1 approximately 7.0 miles. Turn left (North) on Rock Dove Road approximately 0.9 mile. Turn left (West) on lease road and go approximately 0.5 miles. Turn Left (South) on lease road and go approx. 0.8 miles arriving at the proposed road and the location is to the south. Transportation Plan identifying existing roads that will be used to access the project area is included from Certified Surveying Company marked as, Vicinity Map. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Certified Surveying Company. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed

Number of access turnouts:**Access turnout map:**[Drainage Control](#)**New road drainage crossing:** LOW WATER

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

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

Road Drainage Control Structures (DCS) attachment:[Access Additional Attachments](#)

Section 3 - Location of Existing Wells

Existing Wells Map? YES**Existing Well map Attachment:**

Muy_Wayno_18_1Mile_20241009084611.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Ancillary Facilities. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to campsites, airstrips or staging areas. B. Production Facilities. There is already an existing Battery which will be utilized. C. Flowlines: Up to 20 composite flex pipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be within proposed corridors to the Muy Wayno Battery where the oil, gas, and water will be metered and appropriately separated. There is approximately 30.0 FEET WIDE AND 853.83 FEET, 51.75 RODS, OR 0.16 MILES IN LENGTH and 60.0 FEET WIDE AND 774.32 FEET, 46.93 RODS, OR 0.15 MILES IN length of flowlines are proposed. A plat of the proposed flowline route for the lease is attached. D. Gas Pipeline. There is no Gas pipeline required in this project. E. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. F. Flare. Located on the existing Muy Wayno Battery facility pad and will be sized for 60 to 120 mmscf/d with min 150 of distance between all facility equipment, road and well pad locations for safety purposes. G. 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 within BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment. H. Containment Berms. Containment berms constructed completely around production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil/ Caliche. I. Electrical. All electrical lines will be primary 115kV to properly run expected production equipment. Approximately 770.14 of electrical will be ran within the proposed corridor location. A plat of the proposed electrical is attached.

Production Facilities map:

618.013001.00_XTO_MUY_WAYNO_18_ELECTRIC_LINE_FINAL_09_23_2024_20241008084006.pdf

618.013001.00_XTO_MUY_WAYNO_18_FLOW_LINES_FINAL_09_23_2024_20241008084007.pdf

XTO_DB_MWNO18_00CTB_PLOT_000_0_Model_6_29_18_20241008084001.pdf

618.013001.00_XTO_MUY_WAYNO_18_EXISTING_CVB_FINAL_10_10_2024_20241010141345.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER**Describe type:** Raw Produced Water**Water source use type:** INTERMEDIATE/PRODUCTION
CASING**Source latitude:****Source longitude:****Source datum:****City:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** PIPELINE**Source land ownership:** FEDERAL

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Source transportation land ownership:** COMMERCIAL**Water source volume (barrels):** 550000**Source volume (acre-feet):** 70.89120298**Source volume (gal):** 23100000**Water source type:** RECYCLED**Water source use type:** INTERMEDIATE/PRODUCTION
CASING**Source latitude:****Source longitude:****Source datum:****City:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** PIPELINE**Source land ownership:** FEDERAL**Source transportation land ownership:** COMMERCIAL**Water source volume (barrels):** 550000**Source volume (acre-feet):** 70.89120298**Source volume (gal):** 23100000**Water source type:** OTHER**Describe type:** Fresh Water**Water source use type:** DUST CONTROL
SURFACE CASING
STIMULATION**Source latitude:****Source longitude:****Source datum:****City:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** TRUCKING**Source land ownership:** FEDERAL**Source transportation land ownership:** COMMERCIAL**Water source volume (barrels):** 550000**Source volume (acre-feet):** 70.89120298

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Water source and transportation**

Muy_Wayno_18_402H_Vicinity_Map_20241009115638.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish (3P) or raw produced water (XOM) that is all piped from either a pipeline or a pond (32.148303, -103.922340) to the drilling location. Anticipated water usage for drilling includes an estimated 50,000 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 lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 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.

New water well? N**New Water Well Info****Well latitude:****Well Longitude:****Well datum:****Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:****Section 6 - Construction Materials****Using any construction materials:** YES**Construction Materials description:** Anticipated Caliche Locations: 32.09194, -103.8385**Construction Materials source location**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

Section 7 - Methods for Handling

Waste type: DRILLING**Waste content description:** Fluid**Amount of waste:** 500 barrels**Waste disposal frequency :** One Time Only**Safe containment description:** Steel Mud Boxes**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240**Waste type:** SEWAGE

Waste content 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.

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 contractor 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 PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240.**Waste type:** GARBAGE

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

Amount of waste: 250 pounds**Waste disposal frequency :** Weekly

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

Safe containmant attachment:**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)** **Reserve pit width (ft.)****Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description**

Cuttings Area

Cuttings Area being used? NO**Are you storing cuttings on location?** Y

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

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?****Cuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities****Comments:**

Section 9 - Well Site

Well Site Layout Diagram:

Muy_Wayno_18_402H_Well_Site_20241009115747.pdf

Muy_Wayno_18_402H_RL_20241009115758.pdf

Comments: Multi-Well Pad.

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** MUY WAYNO 18 FEDERAL**Multiple Well Pad Number:** D**Recontouring**

618.013001.00_XTO_MUY_WAYNO_18_PAD_D_INTERIM_REC_PAD_LAYOUT_FINAL_10_01_2024_20241008085709.pdf

Drainage/Erosion control construction: 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.

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Well pad proposed disturbance (acres): 14.511	Well pad interim reclamation (acres): 3.874	Well pad long term disturbance (acres): 10.637
Road proposed disturbance (acres): 0.18	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.18
Powerline proposed disturbance (acres): 0.53	Powerline interim reclamation (acres): 0.53	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 1.64	Pipeline interim reclamation (acres): 1.64	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:
16.860999999999997

Total interim reclamation: 6.044

Total long term disturbance: 10.817

Disturbance Comments:

Reconstruction method: The original stockpiled 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 stockpiled 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: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Existing Vegetation Community at other disturbances****Non native seed used?** N**Non native seed description:****Seedling transplant description:****Will seedlings be transplanted for this project?** N**Seedling transplant description attachment:****Will seed be harvested for use in site reclamation?** N**Seed harvest description:****Seed harvest description attachment:****Seed****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation****Operator Contact/Responsible Official****First Name:** Robert**Last Name:** Bartels**Phone:** (406)478-3617**Email:** Robert.e.bartels@exxonmobil.com

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

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting 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.

Existing invasive species? N**Existing invasive species treatment description:****Existing invasive species treatment**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H

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

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

Success standards: 100% compliance with applicable regulations.

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

Pit closure attachment:**Section 11 - Surface****Disturbance type:** OTHER**Describe:** CENTRAL VESSEL BATTERY**Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:****Disturbance type:** EXISTING ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

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:

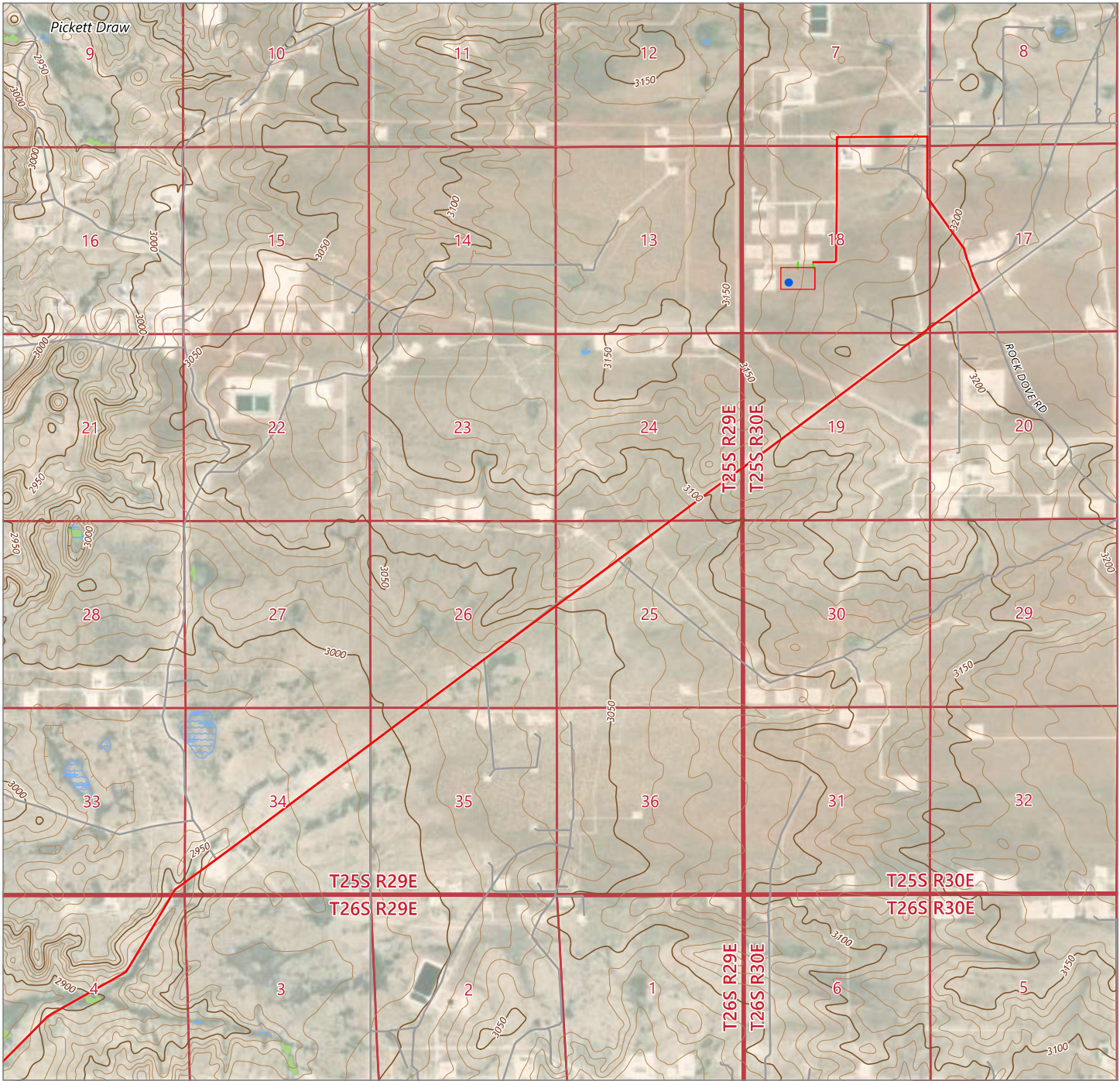
Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Disturbance type:** TRANSMISSION LINE**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local 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:** 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:**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Disturbance type:** OTHER**Describe:** FLOWLINE**Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

Section 12 - Other

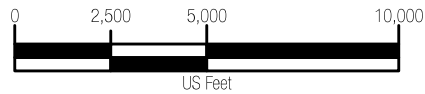
Right of Way needed? Y**Use APD as ROW?** Y**ROW Type(s):** 281001 ROW - ROADS,285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,289001 ROW- O&G Well Pad**ROW****SUPO Additional Information:** SUPO written for all wells in section/project area.**Use a previously conducted onsite?** Y**Previous Onsite information:** The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 05/18/2023.**Other SUPO**

Muy_Wayno_18_Fed_SUPO_Updated_20241010045528.pdf



DRIVING DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



LEGEND

- MUY WAYNO 18 FEDERAL 402H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 335'



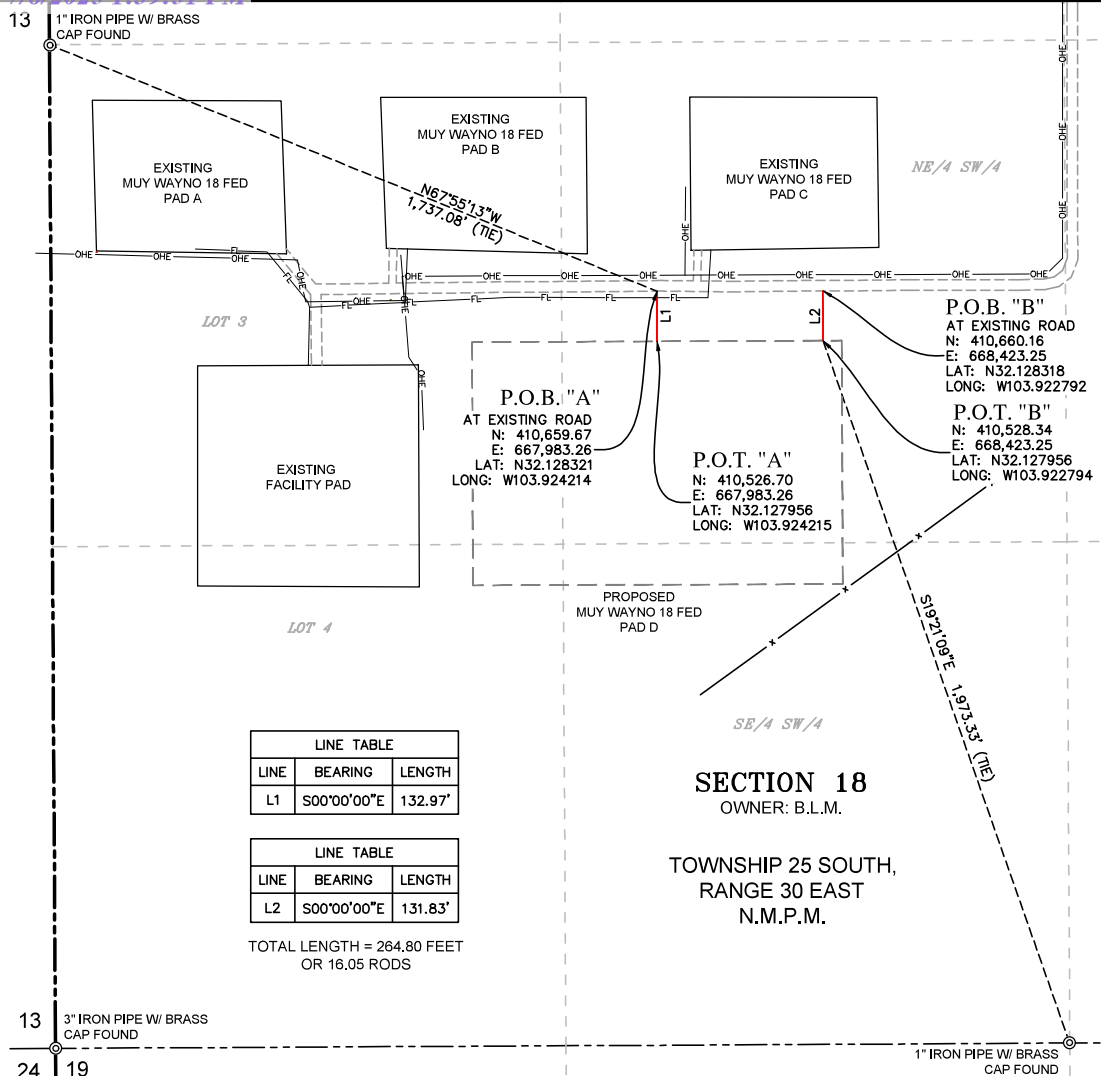
505 Pecan Street, Suite 201, Fort Worth, TX 76102
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**A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO ENERGY, INC.
MUY WAYNO 18 FEDERAL 402H**

LOCATED 1436 FEET FROM THE SOUTH LINE AND 1345 FEET FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

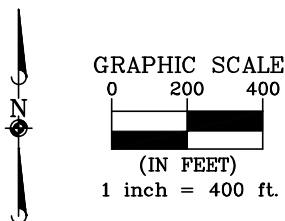
CHECKED BY: AI	DATE: 9/10/2024	SCALE: 1"=5,000'	PROJECT NUMBER: 618.013001.00-03
DRAWN BY: RE	FIELD CREW: RD	REVISION NUMBER: 0	SHEET: 3 OF 3



MUY WAYNO 18 FEDERAL ACCESS ROADS DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 264.80 FEET, 16.05 RODS, OR 0.05 MILES IN LENGTH CROSSING SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 0.18 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

NE/4 SW/4 SECTION 18 = 264.80 FEET = 16.05 RODS = 0.18 OF AN ACRE



GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
3. WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.

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

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786



LEGEND

---	SECTION LINE
---	PROPOSED ACCESS ROAD
---	PROPOSED PAD
---OHE---	EXISTING OVERHEAD ELECTRIC
---FL---	EXISTING FLOW LINE
---	EXISTING PAD
---	EXISTING ROAD
---x---	FENCE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
⊙	FOUND MONUMENT, AS NOTED

AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN ACCESS
ROAD EASEMENT FOR:
XTO ENERGY, INC.
MUY WAYNO 18 FEDERAL

SITUATED IN SECTION 18, TOWNSHIP 25 SOUTH, RANGE
30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

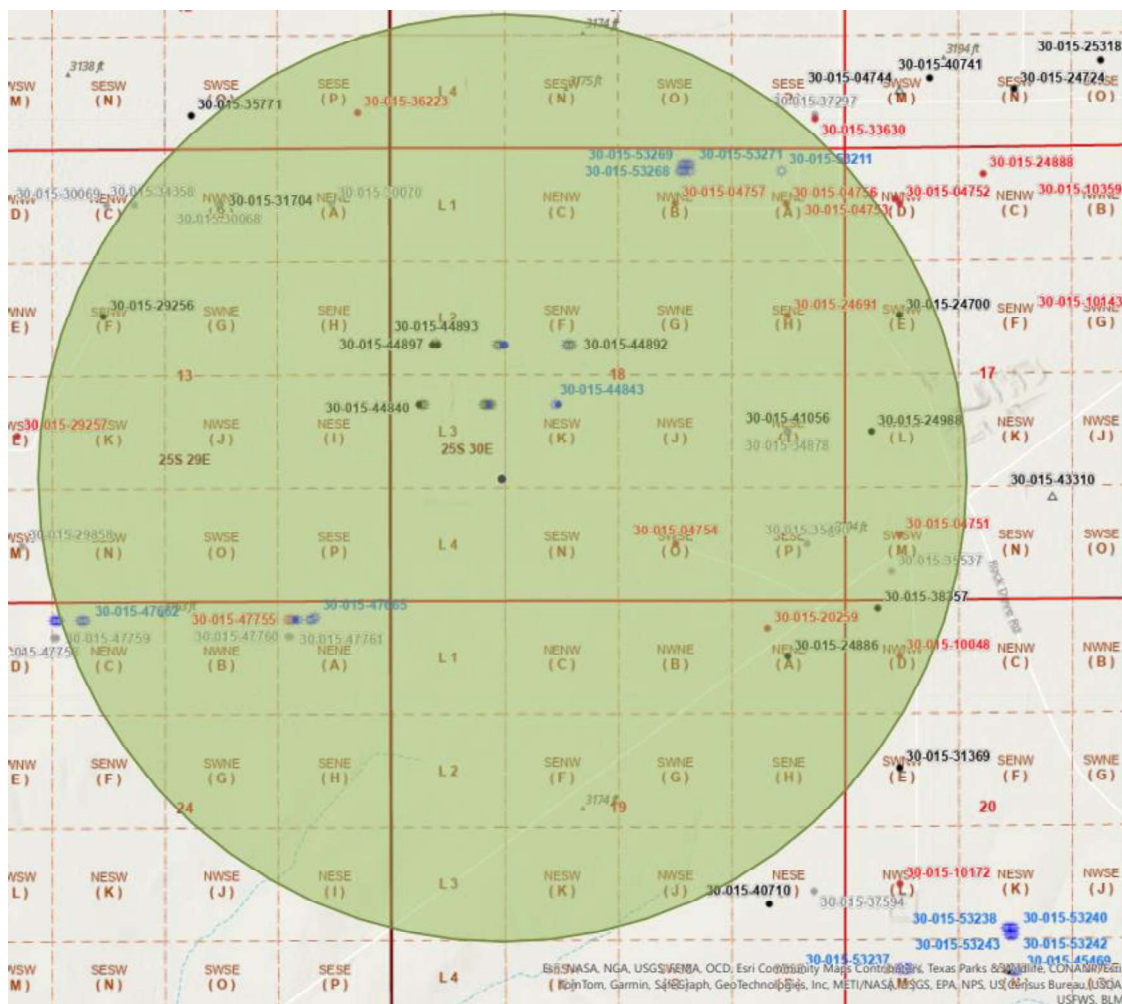
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505 Pecan Street, Suite 201, Fort Worth, TX 76102
ph: 817.865.5344 manhard.com
Texas Board of Professional Engineers &
Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

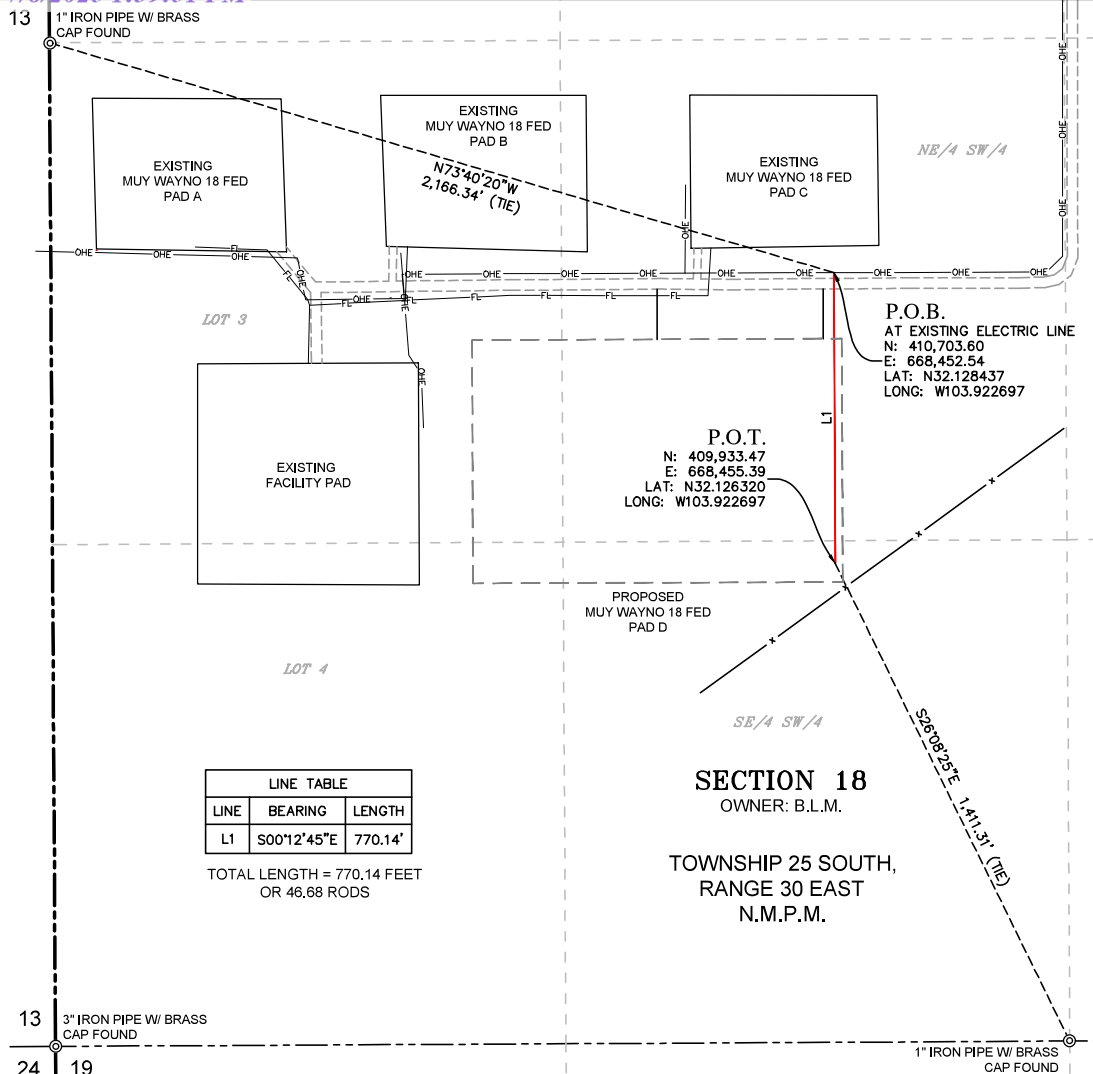
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DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1

Muy Wayno 18 Federal

1-Mile Radius Map





MUY WAYNO 18 FEDERAL OVERHEAD ELECTRIC LINE DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 770.14 FEET, 46.68 RODS, OR 0.15 MILES IN LENGTH CROSSING SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 0.53 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

NE/4 SW/4 SECTION 18 = 710.87 FEET = 43.08 RODS = 0.49 OF AN ACRE
SE/4 SW/4 SECTION 18 = 59.27 FEET = 3.59 RODS = 0.04 OF AN ACRE

GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.

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

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786



LEGEND

---	SECTION LINE
---	PROPOSED OVERHEAD ELECTRIC LINE
---	PROPOSED ACCESS ROAD
---	PROPOSED PAD
OHE	EXISTING OVERHEAD ELECTRIC
FL	EXISTING FLOW LINE
---	EXISTING PAD
---	EXISTING ROAD
x	FENCE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
⊙	FOUND MONUMENT, AS NOTED

AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN
OVERHEAD ELECTRIC EASEMENT FOR:

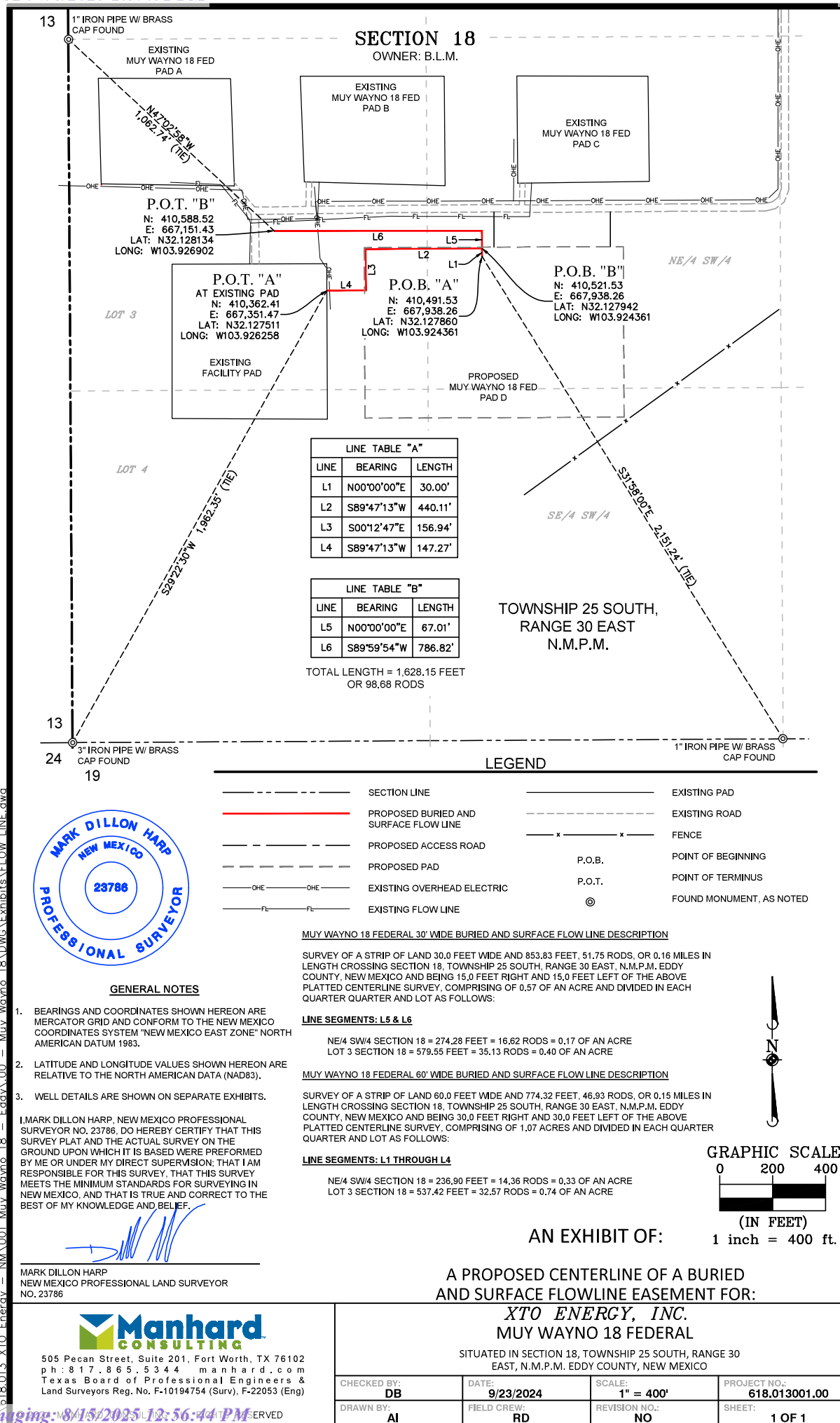
XTO ENERGY, INC.
MUY WAYNO 18 FEDERAL

SITUATED IN SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO


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505 Pecan Street, Suite 201, Fort Worth, TX 76102
ph: 817.865.5344 manhard.com
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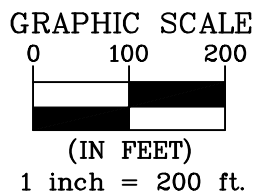
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DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1





NOTES: 1) 2)	<div>ISSUED FOR CONSTRUCTION</div> <div>DATE: _____ SIGN: _____</div>	Revision	Description of Change	Date	By	<div><div>MUY WAYNO 18 TANK BATTERY COUNTY</div></div> <div>PLOT PLAN</div> <div>XTO - DB - MWNO18 - 00CTB - PLOT - 000 - 0</div>								
		0	ISSUED FOR REVIEW	5-18	MFF									
							Company	Division	Field	Facility	Doc Type	Equip	Doc #	Rev #



SECTION 18
OWNER: B.L.M.

LOT 4

TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

GENERAL NOTES

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

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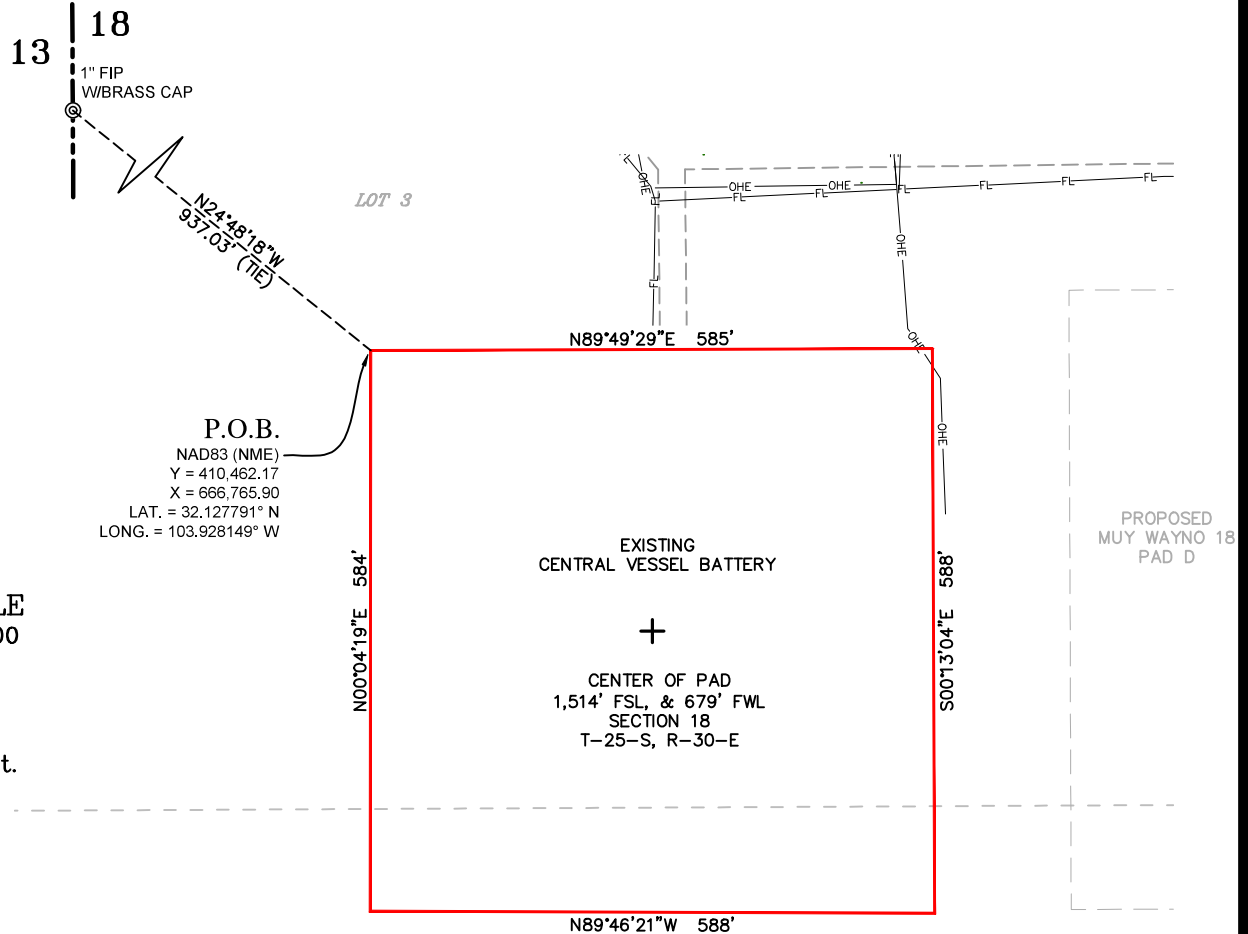
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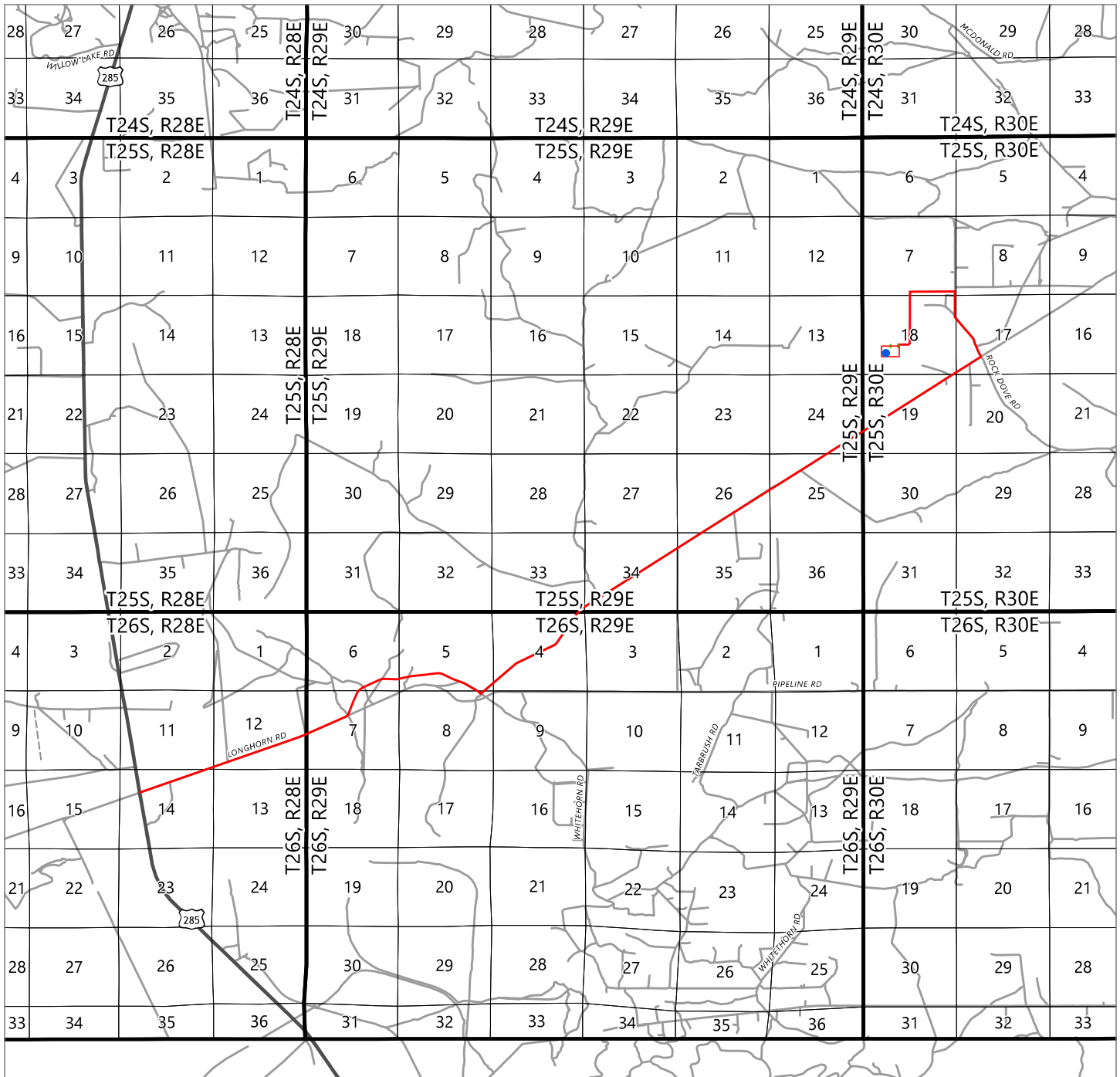
AN EXISTING PAD EXHIBIT FOR:

XTO ENERGY, INC.
MUY WAYNO 18 CENTRAL VESSEL BATTERY

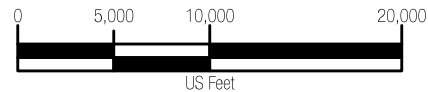
SITUATED IN THE SW/4 OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 10/10/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013001.00
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1



**DRIVING DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.

**LEGEND**

- MUY WAYNO 18 FEDERAL 402H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 335'



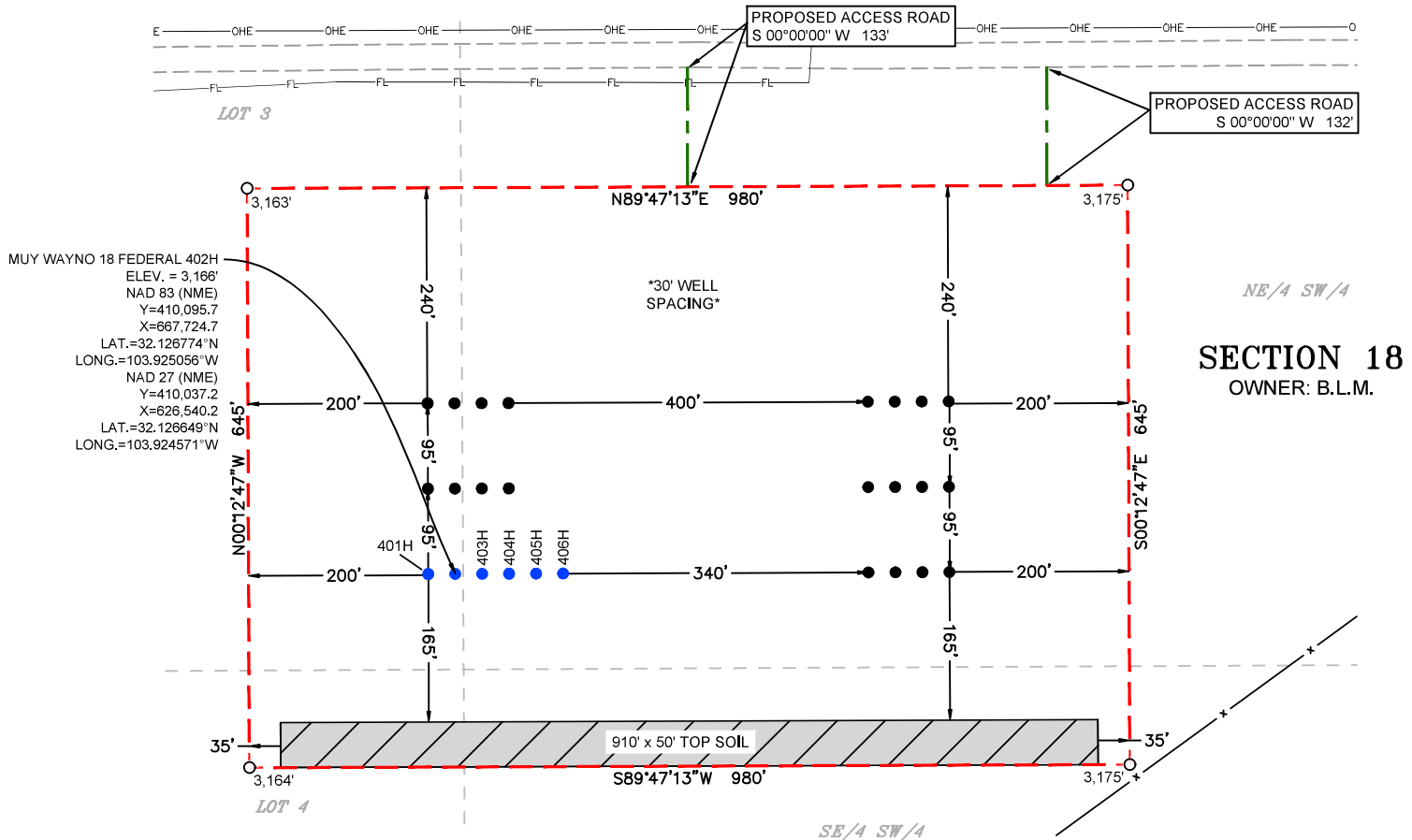
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A VICINITY MAP FOR XTO ENERGY, INC.
MUY WAYNO 18 FEDERAL 402H

LOCATED 1436 FEET FROM THE SOUTH LINE AND 1345 FEET FROM THE WEST LINE OF
 SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	AI	DATE:	9/10/2024	SCALE:	1":10,000'	PROJECT NUMBER:	618.013001.00-03
DRAWN BY:	RE	FIELD CREW:	RD	REVISION NUMBER:	0	SHEET:	2 OF 3

**DRIVING DIRECTION TO LOCATION**

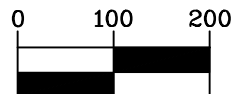
FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
3. REFER TO TOPOGRAPHICAL AND ACCESS ROAD MAP FOR PROPOSED ROAD LOCATION.

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

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786

**GRAPHIC SCALE**

(IN FEET)

1 inch = 200 ft.

TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

ACREAGE INFORMATION

PROPOSED PAD	= 13.466 ACRES
TOP SOIL	= 1.045 ACRES
TOTAL	= 14.511 ACRES

LEGEND

---	SECTION LINE
---	EXISTING ROAD
---	PROPOSED PAD
●	TBD WELL LOCATION
●	PERMITTED WELL LOCATION
---	PROPOSED ACCESS ROAD
—OHE—OHE—	EXISTING OVERHEAD ELECTRIC
—FL—FL—	EXISTING FLOWLINE
—x—x—	EXISTING FENCE



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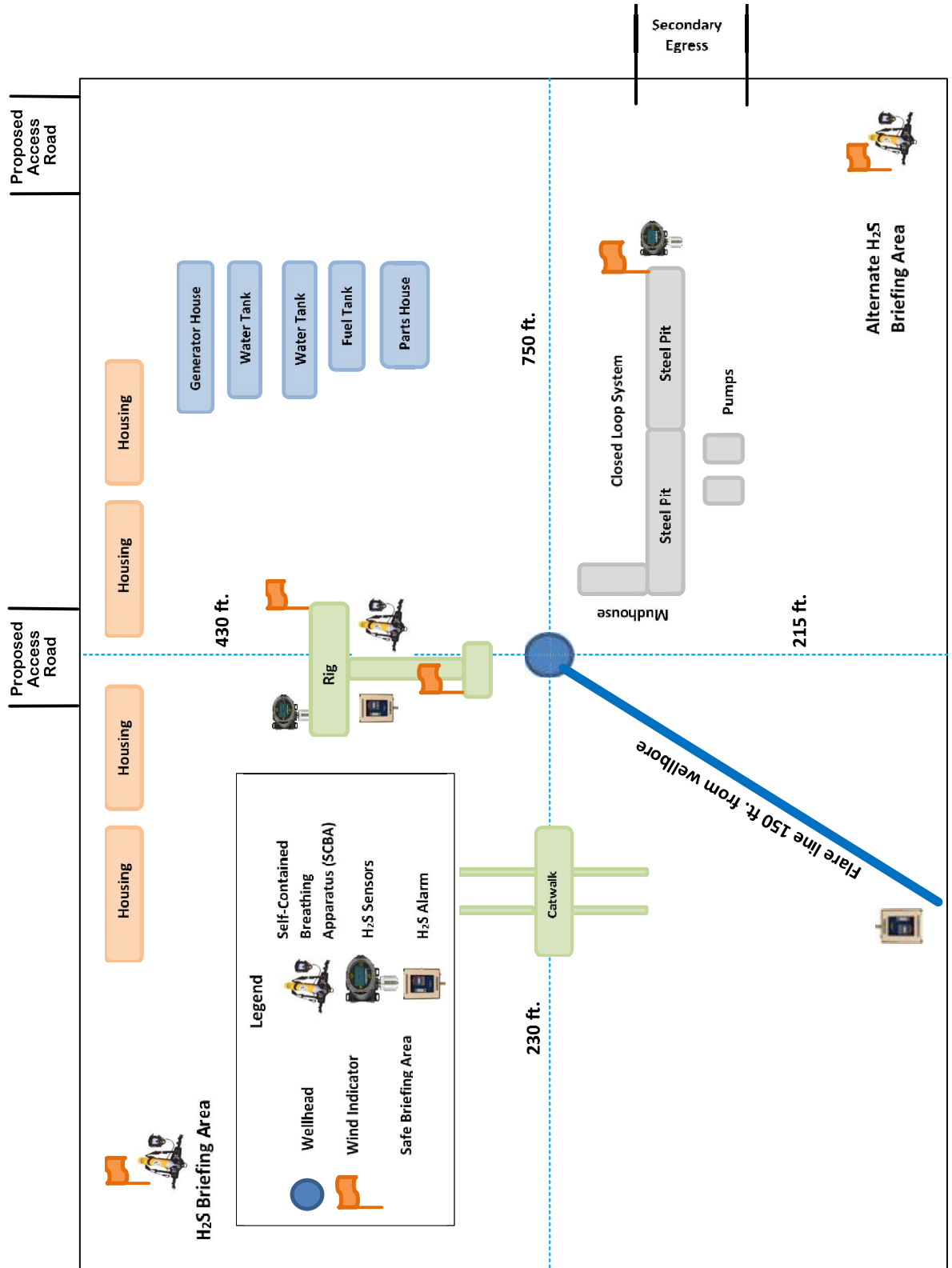
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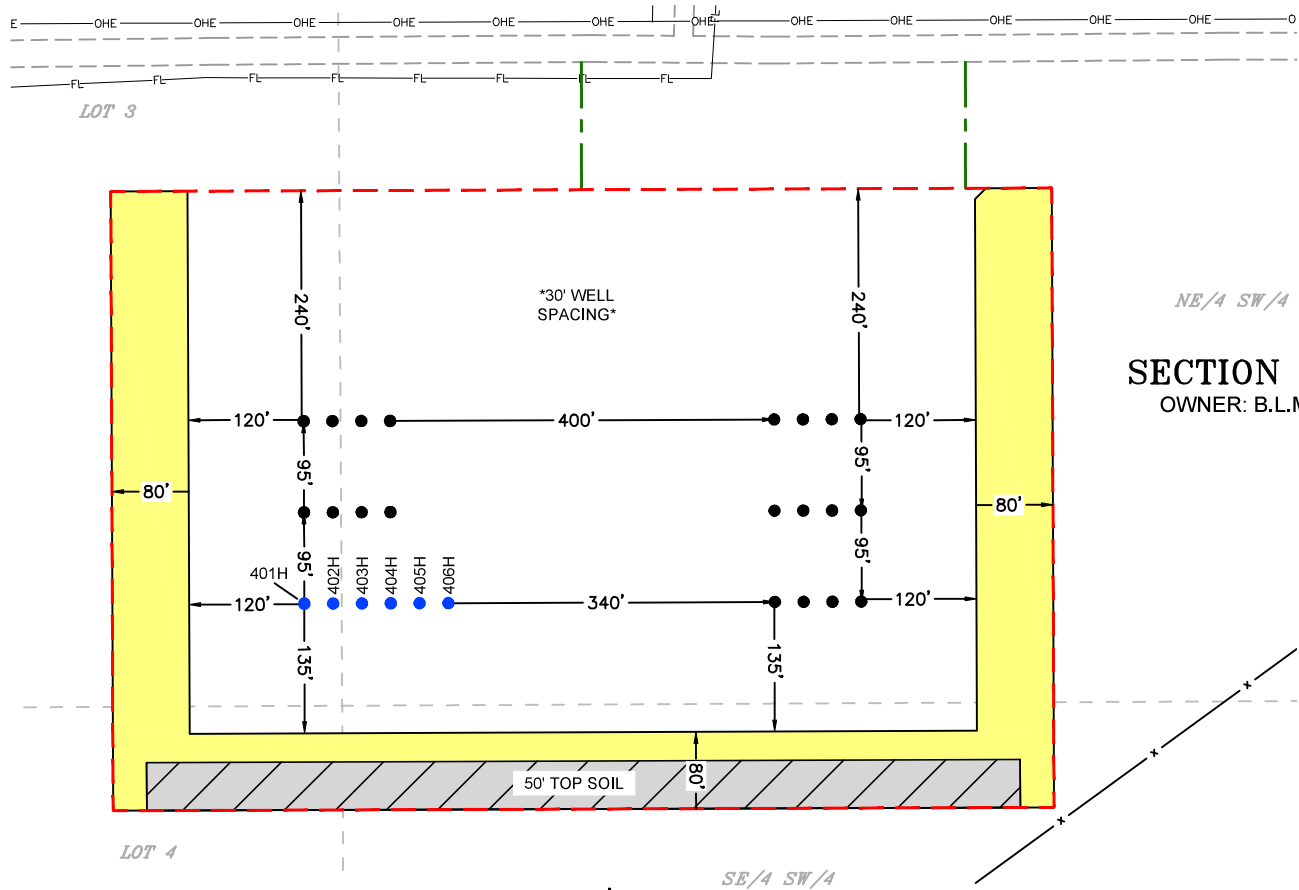
**A WELL SITE PLAN FOR XTO ENERGY, INC.
MUY WAYNO 18 PROPOSED PAD "D"**

MUY WAYNO 18 FEDERAL 402H IS LOCATED 1,436 FEET FROM THE SOUTH LINE AND 1,345 FEET FROM THE WEST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 9/9/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013001.00-03
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: 2	SHEET: 1 OF 3

Rig Plat Layout





SECTION 18

OWNER: B.L.M.

DRIVING DIRECTION TO LOCATION

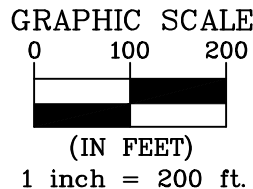
FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES, TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.

GENERAL NOTES

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MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786



TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

ACREAGE INFORMATION

INITIAL DISTURBED AREA	= 14.511 ACRES
INTERIM RECLAMATION	= 3.874 ACRES
TOTAL PAD ACREAGE AFTER IR	= 10.637 ACRES

LEGEND

---	SECTION LINE
---	EXISTING ROAD
---	PROPOSED PAD
●	TBD WELL LOCATION
●	PERMITTED WELL LOCATION
---	PROPOSED ACCESS ROAD
OHE	EXISTING OVERHEAD ELECTRIC
FL	EXISTING FLOWLINE
x	EXISTING FENCE
Yellow Area	INTERIM RECLAMATION AREA



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AN INTERIM RECLAMATION DIAGRAM FOR XTO ENERGY, INC. MUY WAYNO 18 PROPOSED PAD "D"

PAD CENTER IS LOCATED 1,543 FEET FROM THE SOUTH LINE AND 1,605 FEET FROM THE WEST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 10/1/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013001.00
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1

Well Site Locations

Muy Wayno 18 Fed Section 18 Township 25S R30E

Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
M□□□ □□□□ □□ □□d □□□□	1436	FSL	1314	FWL
M□□□ □□□□ □□ □□d □□□□	1436	FSL	1344	FWL
M□□□ □□□□ □□ □□d □□□□	1436	FSL	1374	FWL
M□□□ □□□□ □□ □□d □□□□	1436	FSL	1404	FWL
M□□□ □□□□ □□ □□d □□□□	1436	FSL	1434	FWL
M□□□ □□□□ □□ □□d □□□□	1436	FSL	1464	FWL

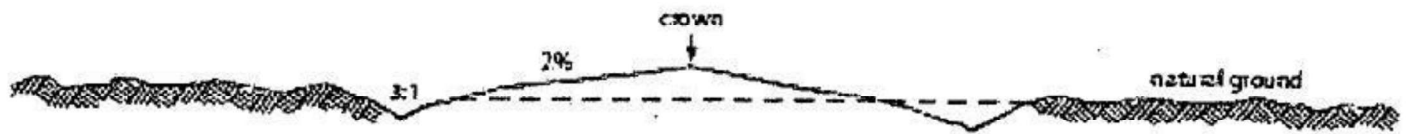
Surface Use Plan

1. Existing Roads

- A. The Muy Wayno 18 Federal area is accessed by existing U.S. Hwy 285 and Longhorn Road. Go Northeast on Longhorn Road. Road bend Southeast and back to Northeast approximately 4.2 miles. Turn left and go Northeast on Pipeline Road #1 approximately 7.0 miles. Turn left (North) on Rock Dove Road approximately 0.9 mile. Turn left (West) on lease road and go approximately 0.5 miles. Turn Left (South) on lease road and go approx. 0.8 miles arriving at the proposed road and the location is to the south. Transportation Plan identifying existing roads that will be used to access the project area is included from Certified Surveying Company marked as, 'Vicinity Map.'
- B. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Certified Surveying Company. 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 264.8' or .05 miles and 30 ft wide proposed and staked access roads in the Muy Wayno 18 Federal lease area with surface disturbance of 0.18 acres.
- 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:** 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 Certified Surveying Company unless otherwise approved by the BLM and applied for by XTO.
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 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 slope. The driving surface will be made of 8" 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:** Allotment 77037, 75' away.
- 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 well pad. 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. Location of Proposed Production 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.
- B. **Production Facilities.** There is already an existing Battery which will be utilized.
- C. **Flowlines:** Up to 20" composite flex pipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be within proposed corridors to the Muy Wayno Battery where the oil, gas, and water will be metered and appropriately separated. There is approximately 30.0 FEET WIDE AND 853.83 FEET, 51.75 RODS, OR 0.16 MILES IN LENGTH and 60.0 FEET WIDE AND 774.32 FEET, 46.93 RODS, OR 0.15 MILES IN length of flowlines are proposed. A plat of the proposed flowline route for the lease is attached.
- D. **Gas Pipeline.** There is no Gas pipeline required in this project.
- E. **Disposal Facilities.** Produced water will be hauled from location to a commercial disposal facility as needed.
- F. **Flare.** Located on the existing Muy Wayno Battery facility pad and will be sized for 60 to 120 mmscf/d with min 150' of distance between all facility equipment, road and well pad locations for safety purposes.

- G. **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 within BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment.
- H. **Containment Berms.** Containment berms constructed completely around production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil/ Caliche.
- I. **Electrical.** All electrical lines will be primary 115kV to properly run expected production equipment. Approximately 770.14' of electrical will be ran within the proposed corridor location. A plat of the proposed electrical is attached.

5. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish (3P) or raw produced water (XOM) that is all piped from either a pipeline or a pond (32.148303, -103.922340) to the drilling location.

Anticipated water usage for drilling includes an estimated 50,000 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 lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 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.

6. 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 because 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 approximately 6"-24" rolled and compacted caliche.
- C. Anticipated Caliche Locations: 32.09194, -103.8385

7. 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, Incorporated and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
 - iii. No hazardous substances or wastes will be stored on the location after completion of the well.
 - iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
 - v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

8. Well Site Layout

- A. **Rig Plat Diagrams:** Proposed Pad D, adjacent to existing facility pad, 980' x 645'. This will allow enough space for cuts and fills, topsoil storage, and storm water control.
- 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:** This well was staked with a v-door orientation West on new proposed pad D.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

9. Plans for Surface Reclamation:

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

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

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

Reclamation Standards:

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

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

The original stockpiled 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, head cutting, 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 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.

10. Surface Ownership

- A. Within the Muy Wayno 18 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 to produce oil and gas.

11. 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 a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Zane Kirsch, Bureau of Land Management Natural Resource Specialist in attendance.
- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- **Environmental Setting**. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
- **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.

Operator's Representatives:

The XTO PERMIAN OPERATING LLC representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Robert Bartels
Project Execution Planner
XTO Energy, Incorporated
6401 Holiday Hill Road Bldg 5
Midland, Texas 79701
robert.e.bartels@exxonmobil.com
Phone: (406) 478-3671



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

PWD Data Report

07/01/2025

APD ID: 10400101428

Submission Date: 10/10/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Lined pit Monitor description:

Lined pit Monitor

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

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**State****Unlined Produced Water Pit Estimated****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****Section 4 -****Would you like to utilize Injection PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD Surface Owner Description:****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection****Underground Injection Control (UIC) Permit?****UIC Permit****Section 5 - Surface****Would you like to utilize Surface Discharge PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD Surface Owner Description :****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:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: MUY WAYNO 18 FEDERAL

Well Number: 402H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

07/01/2025

APD ID: 10400101428**Submission Date:** 10/10/2024**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** MUY WAYNO 18 FEDERAL**Well Number:** 402H**Well Type:** OIL WELL**Well Work Type:** Drill

Highlighted data
reflects the most
recent changes

[Show Final Text](#)**Bond****Federal/Indian APD:** FED**BLM Bond number:** COB000050**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 amount:****Reclamation bond rider amount:****Additional reclamation bond information attachment:**

Well Name: MUY WAYNO 18 FEDERAL	Well Location: T25S / R30E / SEC 18 / LOT 3 / 32.126774 / -103.925056	County or Parish/State: EDDY / NM
Well Number: 402H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120898	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2861553

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/03/2025	Time Sundry Submitted: 01:11
Date proposed operation will begin: 07/03/2025	

Procedure Description: ***Well record clean-up*** XTO respectfully requests the following changes to the below listed documents, Operator Name Change : From: "XTO Energy, Inc." to: "XTO Permian Operating, LLC." 1. C-102 2. Wellsite plat 3. Vicinity Map 4. SUPO 5. Existing Road Map 6. Interim Reclamation plat 7. Proposed Road plat 8. Existing CVB plat 9. Proposed Electric Line plat 10. Proposed Flowline plat

NOI Attachments

Procedure Description

Muy_Wayno_18_402H_Sundry_Docs_20250703131100.pdf

Received by OCD: 7/8/2025 1:39:51 PM

Page 138 of 159

Well Name: MUY WAYNO 18 FEDERAL	Well Location: T25S / R30E / SEC 18 / LOT 3 / 32.126774 / -103.925056	County or Parish/State: EDDY / NM
Well Number: 402H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120898	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MANOJ VENKATESH	Signed on: JUL 03, 2025 01:11 PM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY	
City: SPRING	State: TX
Phone: (720) 539-1673	
Email address: MANOJ.VENKATESH@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: MARIAH HUGHES	BLM POC Title: Land Law Examiner
BLM POC Phone: 5752345972	BLM POC Email Address: mhughes@blm.gov
Disposition: Approved	Disposition Date: 07/07/2025
Signature: Cody Layton Assistant Field Manager	

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

NMNM120898

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well☐ Gas Well☐ Other

2. Name of Operator

XTO PERMIAN OPERATING LLC

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. (include area code)
(432) 683-2277

10. Field and Pool or Exploratory Area

PIERCE CROSSING/BONE SPRING, EAST

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 18/T25S/R30E/NMP

11. Country or Parish, State

EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Well record clean-up

XTO respectfully requests the following changes to the below listed documents,

Operator Name Change : From: "XTO Energy, Inc." to: "XTO Permian Operating, LLC."

1. C-102

2. Wellsite plat

3. Vicinity Map

4. SUPO

5. Existing Road Map

6. Interim Reclamation plat

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

MANOJ VENKATESH / Ph: (720) 539-1673

Regulatory Analyst

Title

(Electronic Submission)
Signature

Date

07/03/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

MARIAH HUGHES / Ph: (575) 234-5972 / Approved

Land Law Examiner

Title

Date

07/07/2025

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

7. Proposed Road plat
8. Existing CVB plat
9. Proposed Electric Line plat
10. Proposed Flowline plat

Location of Well

0. SHL: LOT 3 / 1436 FSL / 1345 FWL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.126774 / LONG: -103.925056 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 2 / 2560 FNL / 685 FWL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.13041 / LONG: -103.927196 (TVD: 9776 feet, MD: 10300 feet)

BHL: LOT 1 / 10 FNL / 685 FWL / TWSP: 25S / RANGE: 30E / SECTION: 7 / LAT: 32.152015 / LONG: -103.927225 (TVD: 9776 feet, MD: 18135 feet)

CONFIDENTIAL

C-102 Sumbit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024	
		Submital Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION			
API Number 30-015-57093	Pool Code 96473 13354	Pool Name Corral Canyon; Bone Spring, South PIERCE CROSSING; BONE SPRING, EAST	
Property Code 337704	Property Name MUY WAYNO 18 FEDERAL		Well Number 402H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.		Ground Level Elevation 3,166'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	

Surface Hole Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	18	25S	30E	3	1,436 FSL	1,345 FWL	32.126774	-103.925056	EDDY

Bottom Hole Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	7	25S	30E	1	10 FNL	685 FWL	32.152015	-103.927225	EDDY


Dedicated Acres 243.44	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code P
Order Numbers.			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	18	25S	30E	3	2,044 FSL	684 FWL	32.128441	-103.927193	EDDY

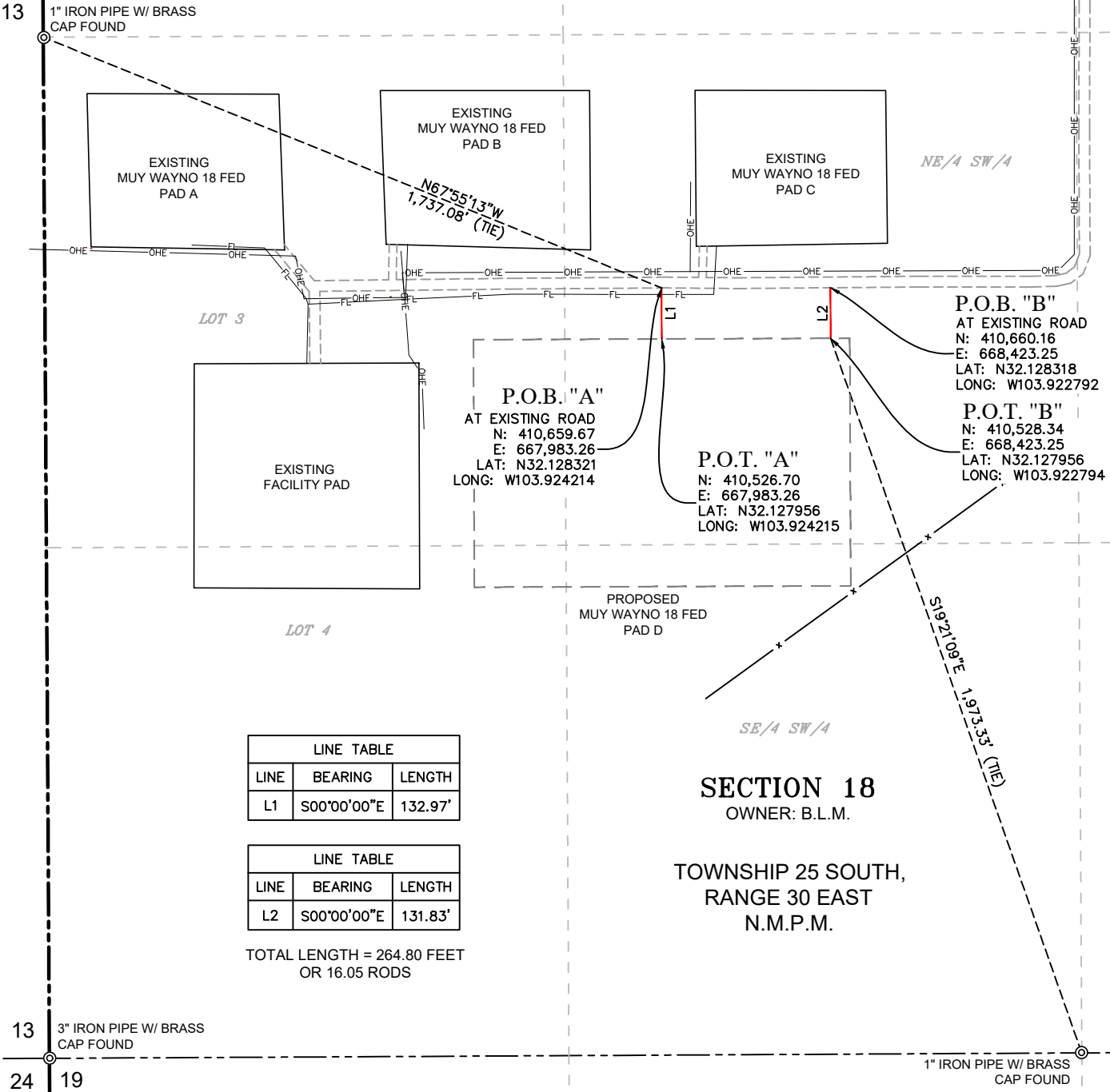
First Take Point (FTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	18	25S	30E	2	2,560 FNL	685 FWL	32.130410	-103.927196	EDDY

Last Take Point (LTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	7	25S	30E	1	100 FNL	685 FWL	32.151767	-103.927224	EDDY

Unitized Area of Area of Interest	Spacing Unit Type : <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Elevation 3,166'
-----------------------------------	--	-----------------------------------

<div>OPERATOR CERTIFICATIONS</div> <div><p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.</i></p><p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p></div> <div><div>Terra Sebastian10/07/2024</div><div>SignatureDate</div><div>Terra Sebastian</div><div>Printed Name</div><div>terra.b.sebastian@exxonmobil.com</div><div>Email Address</div></div>	<div>SURVEYOR CERTIFICATIONS</div> <div><p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i></p></div> <div><div></div><div>Signature and Seal of Professional Surveyor</div><div><div>MARK DILLON HARP 2378610/4/2024</div><div>Certificate NumberDate of Survey</div></div></div> <div><div>MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR</div></div> <div><div>RP</div><div>618.013001.00-03</div></div>
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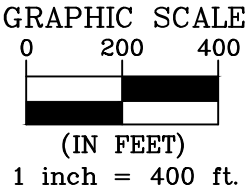
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



MUY WAYNO 18 FEDERAL ACCESS ROADS DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 264.80 FEET, 16.05 RODS, OR 0.05 MILES IN LENGTH CROSSING SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 0.18 OF AN ACRE AND DIVIDED IN EACH QUARTER SECTION AS FOLLOWS:

NE/4 SW/4 SECTION 18 = 264.80 FEET = 16.05 RODS = 0.18 OF AN ACRE



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.

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

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786



LEGEND

- SECTION LINE
- PROPOSED ACCESS ROAD
- PROPOSED PAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING FLOW LINE
- EXISTING PAD
- EXISTING ROAD
- FENCE
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINUS
- FOUND MONUMENT, AS NOTED

AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN ACCESS
ROAD EASEMENT FOR:

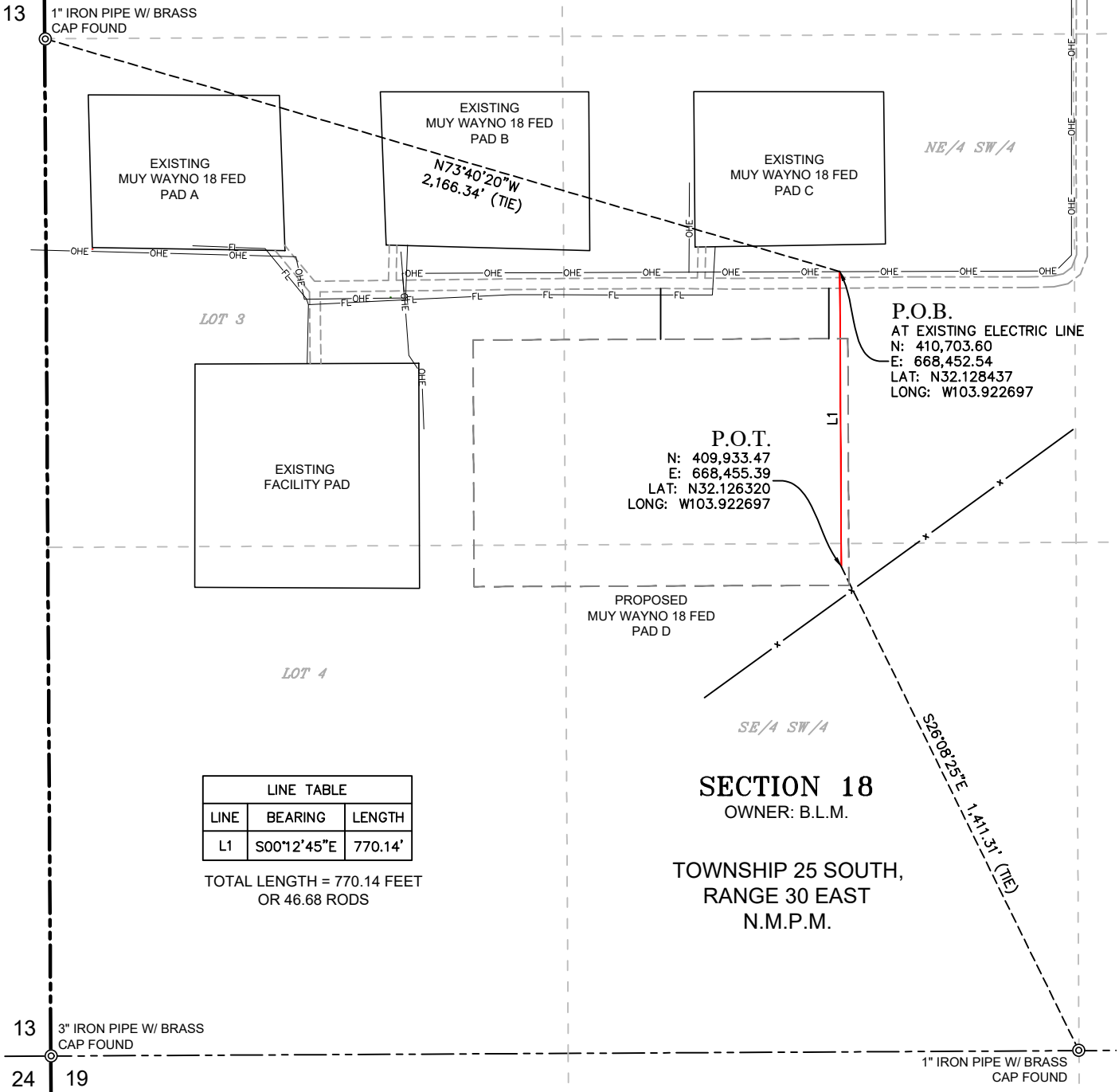
XTO PERMIAN OPERATING, LLC.
MUY WAYNO 18 FEDERAL

SITUATED IN SECTION 18, TOWNSHIP 25 SOUTH, RANGE
30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



505 Pecan Street, Suite 201, Fort Worth, TX 76102
p h : 8 1 7 . 8 6 5 . 5 3 4 4 m a n h a r d . c o m
Texas Board of Professional Engineers &
Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

CHECKED BY: DB	DATE: 9/23/2024	SCALE: 1" = 400'	PROJECT NO.: 618.013001.00
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1



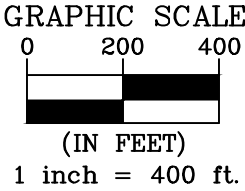
LINE TABLE		
LINE	BEARING	LENGTH
L1	S00°12'45"E	770.14'

TOTAL LENGTH = 770.14 FEET
OR 46.68 RODS

MUY WAYNO 18 FEDERAL OVERHEAD ELECTRIC LINE DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 770.14 FEET, 46.68 RODS, OR 0.15 MILES IN LENGTH CROSSING SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 0.53 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

NE/4 SW/4 SECTION 18 = 710.87 FEET = 43.08 RODS = 0.49 OF AN ACRE
SE/4 SW/4 SECTION 18 = 59.27 FEET = 3.59 RODS = 0.04 OF AN ACRE



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.

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

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786



LEGEND

---	SECTION LINE
---	PROPOSED OVERHEAD ELECTRIC LINE
---	PROPOSED ACCESS ROAD
---	PROPOSED PAD
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING FLOW LINE
---	EXISTING PAD
---	EXISTING ROAD
---	FENCE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
⊙	FOUND MONUMENT, AS NOTED

AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN
OVERHEAD ELECTRIC EASEMENT FOR:

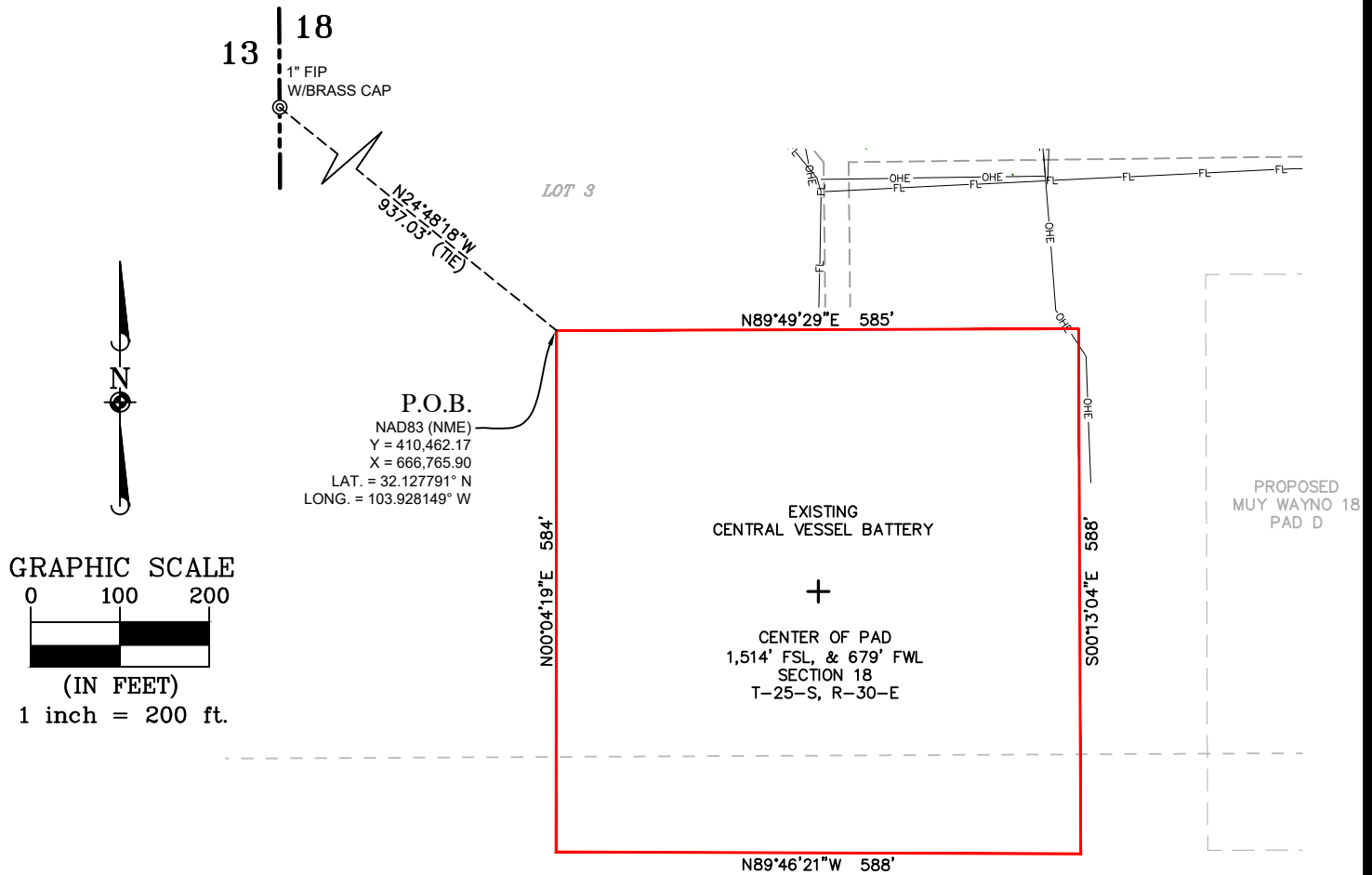
XTO PERMIAN OPERATING, LLC.
MUY WAYNO 18 FEDERAL

SITUATED IN SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO



505 Pecan Street, Suite 201, Fort Worth, TX 76102
p h : 8 1 7 . 8 6 5 . 5 3 4 4 m a n h a r d . c o m
Texas Board of Professional Engineers &
Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

CHECKED BY: DB	DATE: 9/23/2024	SCALE: 1" = 400'	PROJECT NO.: 618.013001.00
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1



SECTION 18
OWNER: B.L.M.

LOT 4

TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
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MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786

LEGEND

---	SECTION LINE
---	EXISTING FACILITY PAD
---	EXISTING ROAD
OHE --- OHE	EXISTING OVERHEAD ELECTRIC
FL --- FL	EXISTING FLOW LINE
---	EXISTING FLARE PAD
P.O.B.	POINT OF BEGINNING
⊙	FOUND MONUMENT AS NOTED

AN EXISTING PAD EXHIBIT FOR:

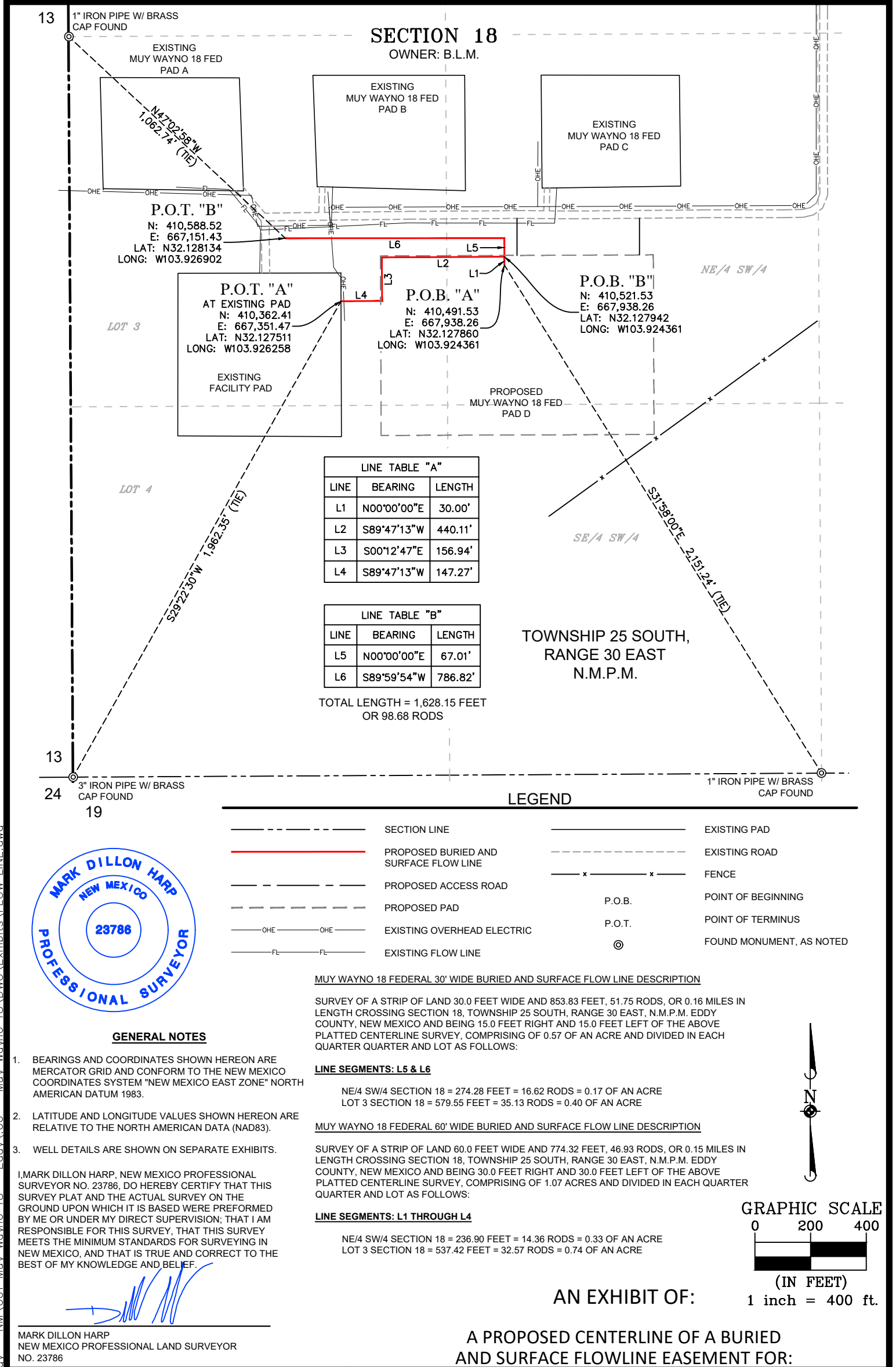
XTO PERMIAN OPERATING, LLC.
MUY WAYNO 18 CENTRAL VESSEL BATTERY
SITUATED IN THE SW/4 OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

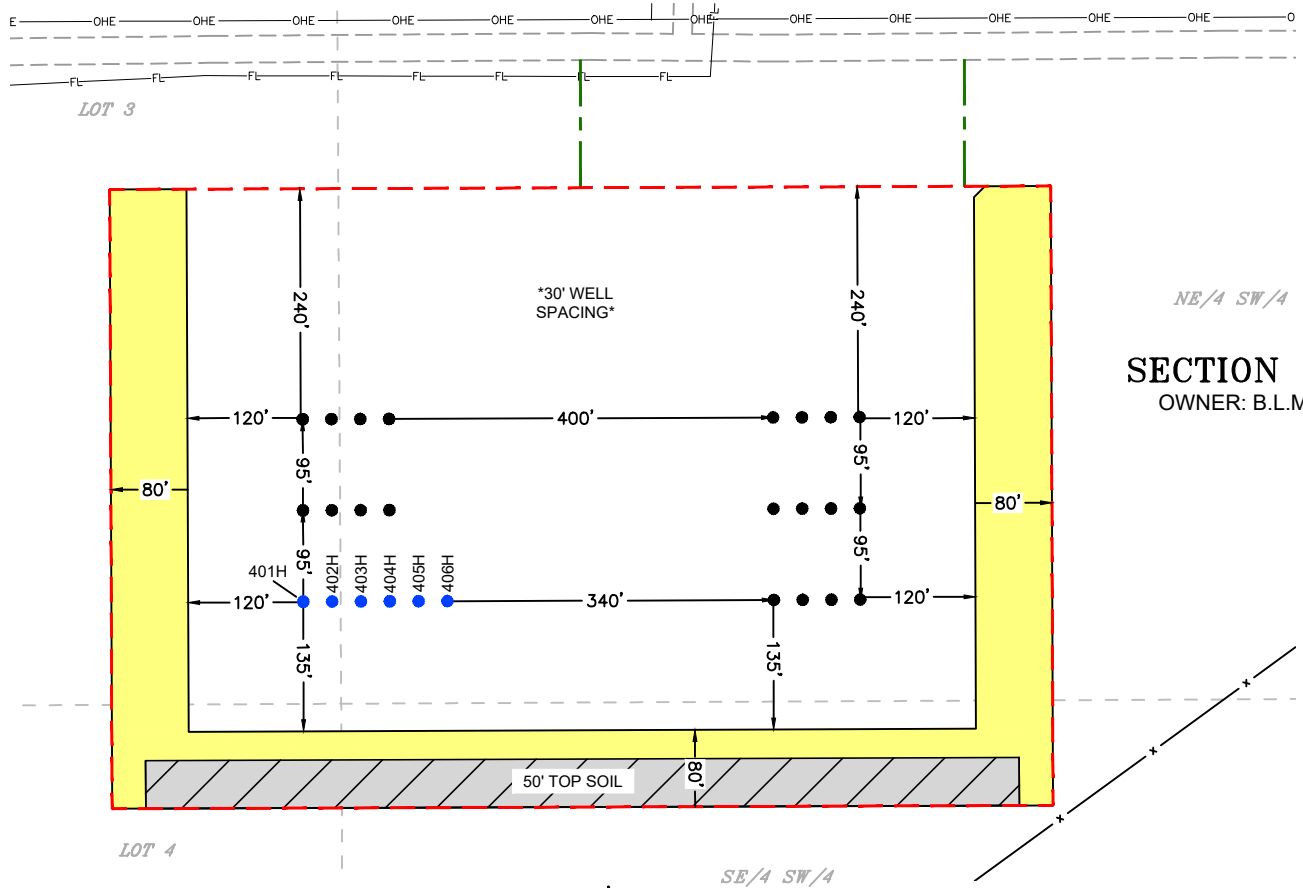


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ph: 817.865.5344 manhard.com
Texas Board of Professional Engineers &
Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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CHECKED BY: DB	DATE: 10/10/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013001.00
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1





DRIVING DIRECTION TO LOCATION

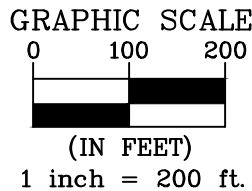
FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.

GENERAL NOTES

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

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

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786



TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

ACREAGE INFORMATION

INITIAL DISTURBED AREA = 14.511 ACRES
INTERIM RECLAMATION = 3.874 ACRES
TOTAL PAD ACREAGE AFTER IR = 10.637 ACRES

LEGEND

---	SECTION LINE
- - -	EXISTING ROAD
- - - - -	PROPOSED PAD
●	TBD WELL LOCATION
●	PERMITTED WELL LOCATION
- - - - -	PROPOSED ACCESS ROAD
OHE OHE	EXISTING OVERHEAD ELECTRIC
FL FL	EXISTING FLOWLINE
x x	EXISTING FENCE
	INTERIM RECLAMATION AREA



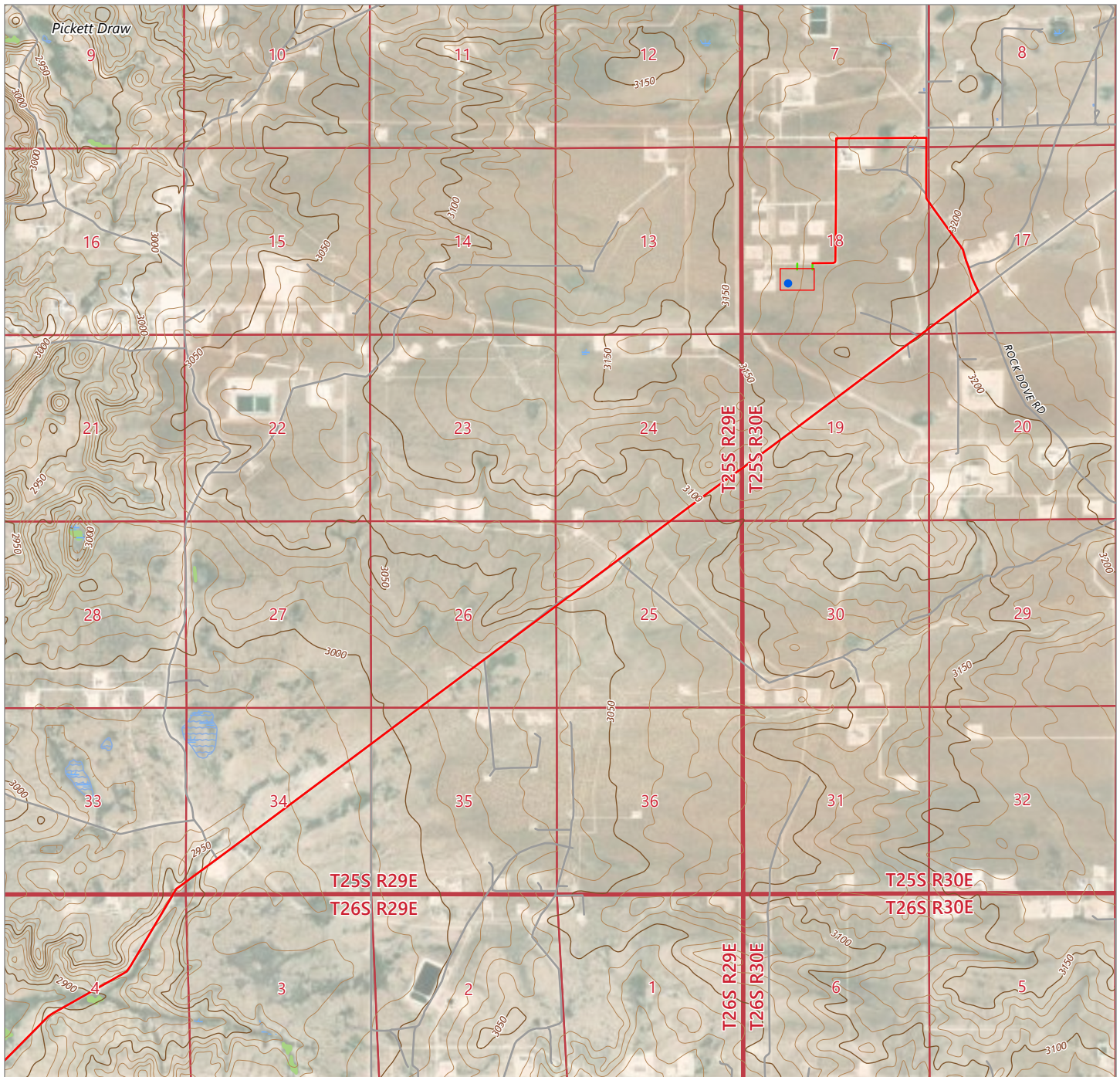
505 Pecan Street, Suite 201, Fort Worth, TX 76102
ph: 817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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**AN INTERIM RECLAMATION DIAGRAM FOR XTO PERMIAN OPERATING, LLC.
MUY WAYNO 18 PROPOSED PAD "D"**

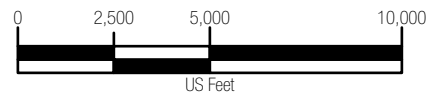
PAD CENTER IS LOCATED 1,543 FEET FROM THE SOUTH LINE AND 1,605 FEET FROM THE WEST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 10/1/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013001.00
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1



DRIVING DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



LEGEND

- MUY WAYNO 18 FEDERAL 402H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 335'



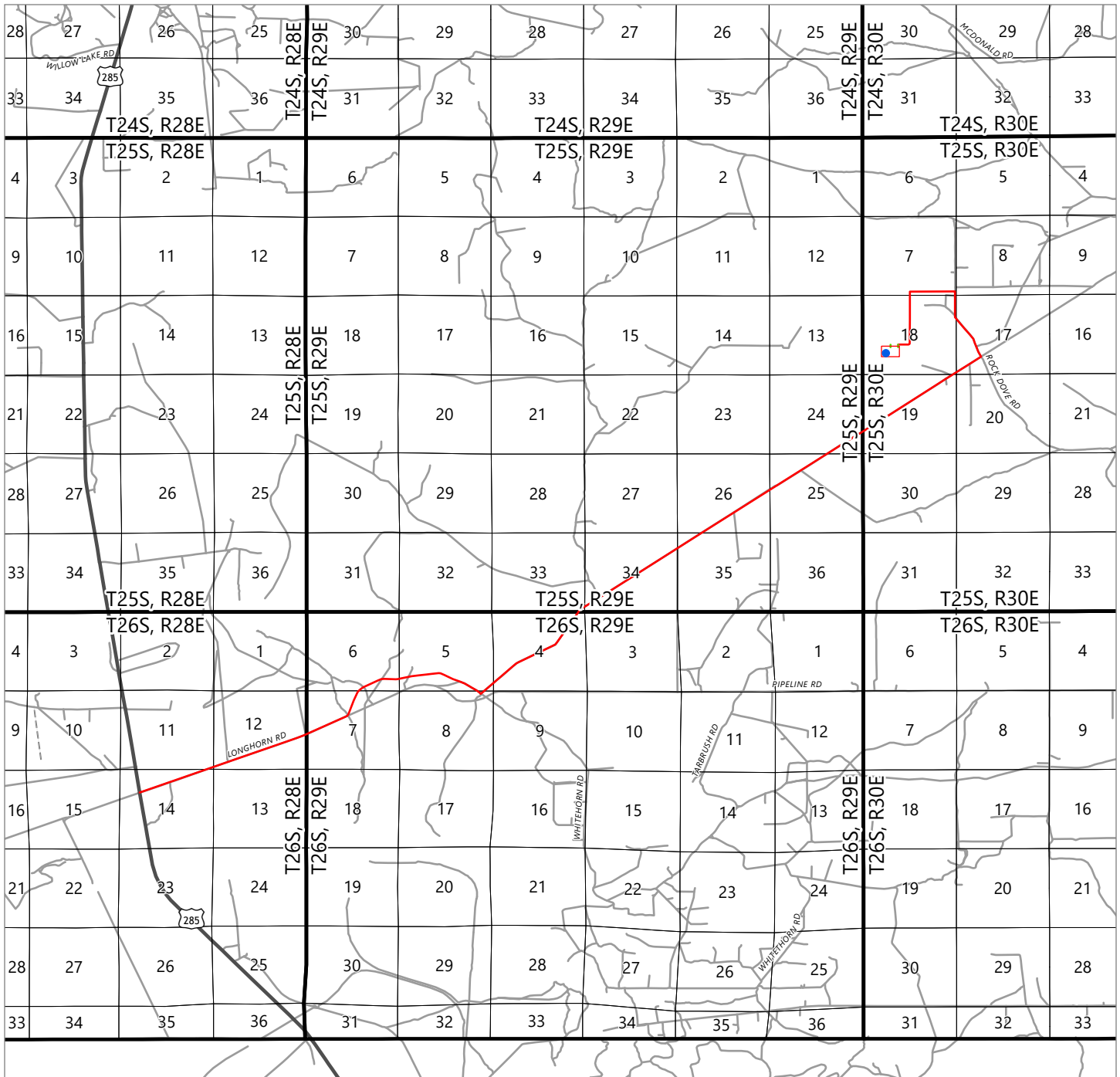
505 Pecan Street, Suite 201, Fort Worth, TX 76102
Ph: 972.972.4250 manhard.com
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Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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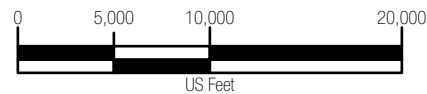
A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO PERMIAN OPERATING, LLC. MUY WAYNO 18 FEDERAL 402H

LOCATED 1436 FEET FROM THE SOUTH LINE AND 1345 FEET FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	AI	DATE:	9/10/2024	SCALE:	1"=5,000'	PROJECT NUMBER:	618.013001.00-03
DRAWN BY:	RE	FIELD CREW:	RD	REVISION NUMBER:	0	SHEET:	3 OF 3

**DRIVING DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.8 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.

**LEGEND**

- MUY WAYNO 18 FEDERAL 402H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 335'



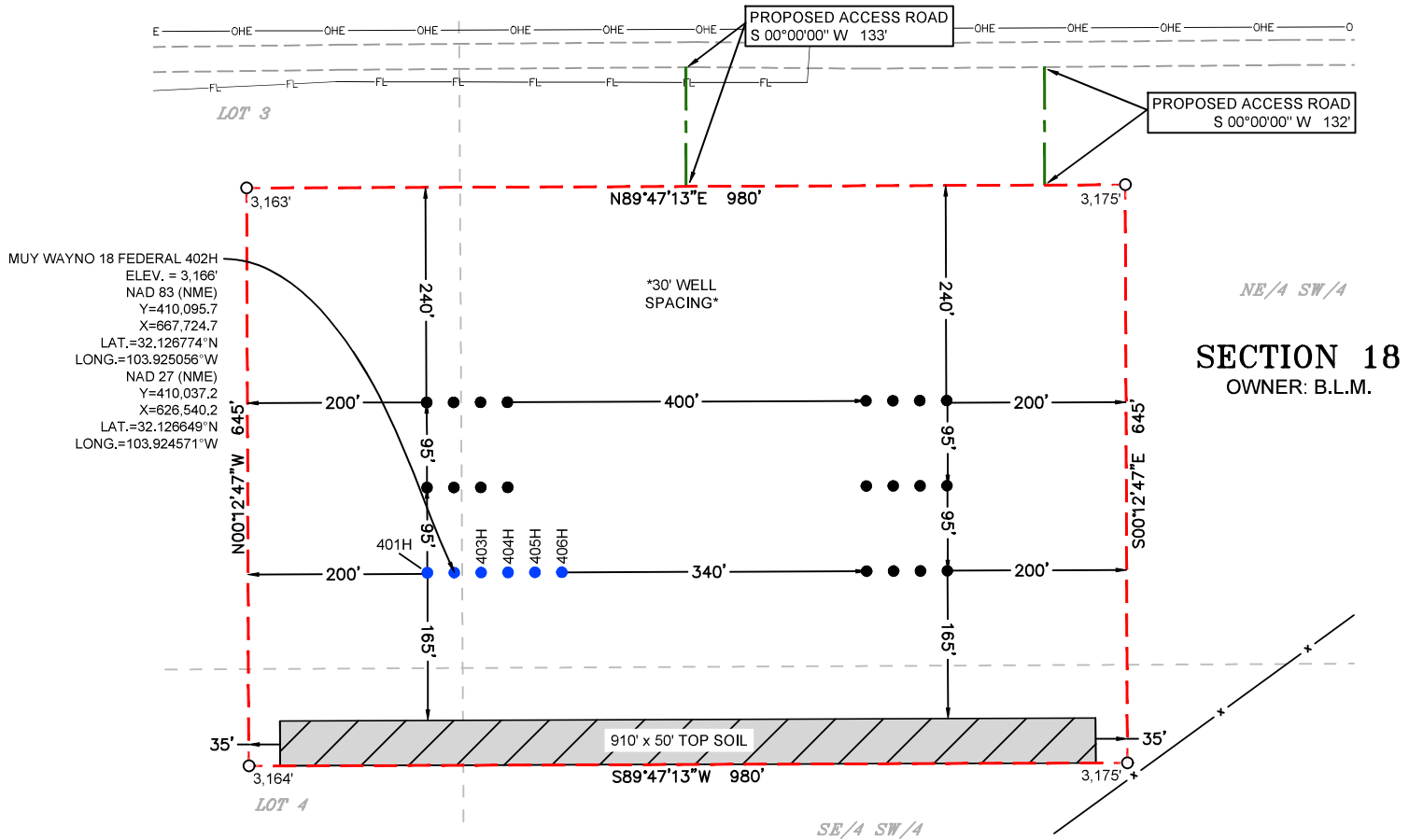
505 Pecan Street, Suite 201, Fort Worth, TX 76102
 Ph: 972.972.4250 manhard.com
 Texas Board of Professional Engineers & Land
 Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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**A VICINITY MAP FOR XTO PERMIAN OPERATING, LLC.
 MUY WAYNO 18 FEDERAL 402H**

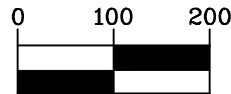
LOCATED 1436 FEET FROM THE SOUTH LINE AND 1345 FEET FROM THE WEST LINE OF
 SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	AI	DATE:	9/10/2024	SCALE:	1"=10,000'	PROJECT NUMBER:	618.013001.00-03
DRAWN BY:	RE	FIELD CREW:	RD	REVISION NUMBER:	0	SHEET:	2 OF 3



TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

GRAPHIC SCALE



(IN FEET)

1 inch = 200 ft.



A WELL SITE PLAN FOR XTO PERMIAN OPERATING, LLC.
MUY WAYNO 18 PROPOSED PAD "D"

MUY WAYNO 18 FEDERAL 402H IS LOCATED 1,436 FEET FROM THE SOUTH LINE AND 1,345 FEET FROM THE WEST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 9/9/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013001.00-03
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: 2	SHEET: 1 OF 3

Well Site Locations

Muy Wayno 18 Fed Section 18 Township 25S R30E

Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
Muy Wayno 18 Fed 401H	1436	FSL	1314	FWL
Muy Wayno 18 Fed 402H	1436	FSL	1344	FWL
Muy Wayno 18 Fed 403H	1436	FSL	1374	FWL
Muy Wayno 18 Fed 404H	1436	FSL	1404	FWL
Muy Wayno 18 Fed 405H	1436	FSL	1434	FWL
Muy Wayno 18 Fed 406H	1436	FSL	1464	FWL

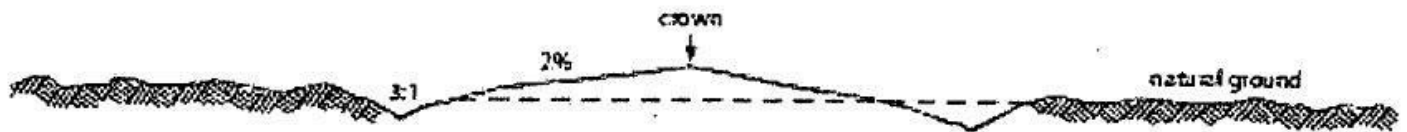
Surface Use Plan

1. Existing Roads

- A. The Muy Wayno 18 Federal area is accessed by existing U.S. Hwy 285 and Longhorn Road. Go Northeast on Longhorn Road. Road bend Southeast and back to Northeast approximately 4.2 miles. Turn left and go Northeast on Pipeline Road #1 approximately 7.0 miles. Turn left (North) on Rock Dove Road approximately 0.9 mile. Turn left (West) on lease road and go approximately 0.5 miles. Turn Left (South) on lease road and go approx. 0.8 miles arriving at the proposed road and the location is to the south. Transportation Plan identifying existing roads that will be used to access the project area is included from Certified Surveying Company marked as, 'Vicinity Map.'
- B. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Certified Surveying Company. 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 264.8' or .05 miles and 30 ft wide proposed and staked access roads in the Muy Wayno 18 Federal lease area with surface disturbance of 0.18 acres.
- 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:** 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 Certified Surveying Company unless otherwise approved by the BLM and applied for by XTO.
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 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 slope. The driving surface will be made of 8" 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:** Allotment 77037, 75' away.
- 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 well pad. 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. Location of Proposed Production 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.
- B. **Production Facilities.** There is already an existing Battery which will be utilized.
- C. **Flowlines:** Up to 20" composite flex pipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be within proposed corridors to the Muy Wayno Battery where the oil, gas, and water will be metered and appropriately separated. There is approximately 30.0 FEET WIDE AND 853.83 FEET, 51.75 RODS, OR 0.16 MILES IN LENGTH and 60.0 FEET WIDE AND 774.32 FEET, 46.93 RODS, OR 0.15 MILES IN length of flowlines are proposed. A plat of the proposed flowline route for the lease is attached.
- D. **Gas Pipeline.** There is no Gas pipeline required in this project.
- E. **Disposal Facilities.** Produced water will be hauled from location to a commercial disposal facility as needed.
- F. **Flare.** Located on the existing Muy Wayno Battery facility pad and will be sized for 60 to 120 mmscf/d with min 150' of distance between all facility equipment, road and well pad locations for safety purposes.

- G. **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 within BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment.
- H. **Containment Berms.** Containment berms constructed completely around production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil/ Caliche.
- I. **Electrical.** All electrical lines will be primary 115kV to properly run expected production equipment. Approximately 770.14' of electrical will be ran within the proposed corridor location. A plat of the proposed electrical is attached.

5. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish (3P) or raw produced water (XOM) that is all piped from either a pipeline or a pond (32.148303, -103.922340) to the drilling location.

Anticipated water usage for drilling includes an estimated 50,000 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 lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 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.

6. 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 because 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 approximately 6"-24" rolled and compacted caliche.
- C. Anticipated Caliche Locations: 32.09194, -103.8385

7. 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 Permian Operating, LLC, Incorporated and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
 - iii. No hazardous substances or wastes will be stored on the location after completion of the well.
 - iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
 - v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

8. Well Site Layout

- A. **Rig Plat Diagrams:** Proposed Pad D, adjacent to existing facility pad, 980' x 645'. This will allow enough space for cuts and fills, topsoil storage, and storm water control.
- 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:** This well was staked with a v-door orientation West on new proposed pad D.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

9. Plans for Surface Reclamation:

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

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

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

Reclamation Standards:

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

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

The original stockpiled 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, head cutting, 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 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.

10. Surface Ownership

- A. Within the Muy Wayno 18 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 to produce oil and gas.

11. 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 a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Zane Kirsch, Bureau of Land Management Natural Resource Specialist in attendance.
- **Dwellings and Structures.** There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- **Environmental Setting.** Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
- **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.

Operator's Representatives:

The XTO PERMIAN OPERATING LLC representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Robert Bartels
Project Execution Planner
XTO Permian Operating, LLC.
6401 Holiday Hill Road Bldg 5
Midland, Texas 79701
robert.e.bartels@exxonmobil.com
Phone: (406) 478-3671

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 482725

ACKNOWLEDGMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 482725
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 482725

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 482725
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mvenkatesh	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/8/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/8/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	8/15/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/15/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	8/15/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	8/15/2025