



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

Application for Permit to Drill

APD Package Report

Date Printed: 07/30/2025 09:28 AM

APD ID: 10400101709

Well Status: AAPD

APD Received Date: 10/31/2024 01:42 PM

Well Name: BRUSHY DRAW 31-7 FEDER

Operator: XTO PERMIAN OPERATING LLC

Well Number: 104H

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: 4 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: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM102033
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM144140
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. BRUSHY DRAW 31-7 FEDERAL 104H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-57198
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE / 1379 FNL / 1753 FEL / LAT 32.089831 / LONG -103.917692 At proposed prod. zone SWNE / 2476 FNL / 2171 FEL / LAT 32.057604 / LONG -103.919014		10. Field and Pool, or Exploratory PURPLE SAGE/WOLFCAMP (GAS)
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 31/T25S/R30E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1379 feet		12. County or Parish EDDY
16. No of acres in lease		13. State NM
17. Spacing Unit dedicated to this well 720.0		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet		20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3114 feet		22. Approximate date work will start* 10/14/2025
		23. Estimated duration 45 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) RICHARD REDUS / Ph: (432) 682-8873	Date 10/31/2024
Title Permitting Manager		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 07/28/2025
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: 07/28/2025

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: SWNE / 1379 FNL / 1753 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.089831 / LONG: -103.917692 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 2054 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.092711 / LONG: -103.918655 (TVD: 11491 feet, MD: 12069 feet)

BHL: SWNE / 2476 FNL / 2171 FEL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057604 / LONG: -103.919014 (TVD: 11491 feet, MD: 24658 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.:	NMNM102033
COUNTY:	Eddy County, New Mexico

Wells:

- Brushy Draw 31-7 Federal # 101H
- Brushy Draw 31-7 Federal # 102H
- Brushy Draw 31-7 Federal # 103H
- Brushy Draw 31-7 Federal # 104H
- Brushy Draw 31-7 Federal # 105H
- Brushy Draw 31-7 Federal # 106H
- Brushy Draw 31-7 Federal # 125H
- Brushy Draw 31-7 Federal # 126

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1. 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.

1.1. 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.

1.2. RANGELAND RESOURCES

1.2.1. 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.

1.2.2. 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).

1.2.3. 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.

1.3. 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.

1.4. LIGHT POLLUTION

1.4.1. 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.

1.4.2. 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).

1.4.3. 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.

2. SPECIAL REQUIREMENTS

WATERSHED

The entire surface site/pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. No waterflow from the uphill side(s) of the pad shall be allowed to enter the well pad. Topsoil shall not be used to construct the berm. The compacted berm should be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche).

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 immediately 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 with wattles (recommended minimum 9" height) surrounding the stockpiled soil to prevent soil loss due to water/wind erosion. The wattles are to be maintained throughout the life of the project.

If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state-approved facility.

Tank Battery:

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

Buried/Surface Line(s):

When crossing ephemeral drainages (marked and unmarked), the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. In ephemeral flow paths, rivers, and streams excess soil is to be compacted, contoured, and level to ground surface, allowing water to flow in its natural state. 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 should incorporate an automatic shut-off system or manual shut-off valves with active monitoring to minimize the effects of an undesirable event.

Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.

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

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 ROW into a permanent ROW.

The pipeline is to not obstruct ephemeral drainages or streams, allowing water to flow in its natural state unobstructed.

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 should incorporate an automatic shut-off system or manual shut-off valves with active monitoring to minimize the effects of an undesirable event.

Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.

2.3 WILDLIFE

2.3.2. 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.

2.4 SPECIAL STATUS PLANT SPECIES

2.5 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).

AND/OR

All above ground structures including but not limited to pumpjacks, storage tanks, production equipment, etc. must be shorter than 8 feet.

2.5.2 VRM III Facility Requirement

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).

Low-profile tanks, pumpjacks, and production equipment etc. must be shorter than 8 feet.

3. CONSTRUCTION REQUIREMENTS

3.1 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.

3.2 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.

3.3 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.

3.4 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.

3.5 WELL PAD & SURFACING

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

3.6 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, Exclosure 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.

3.7 ON LEASE ACCESS ROAD

3.7.1 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.

3.7.2 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.

3.7.3 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.

3.7.4 Ditching

Ditching shall be required on both sides of the road.

3.7.5 Turnouts

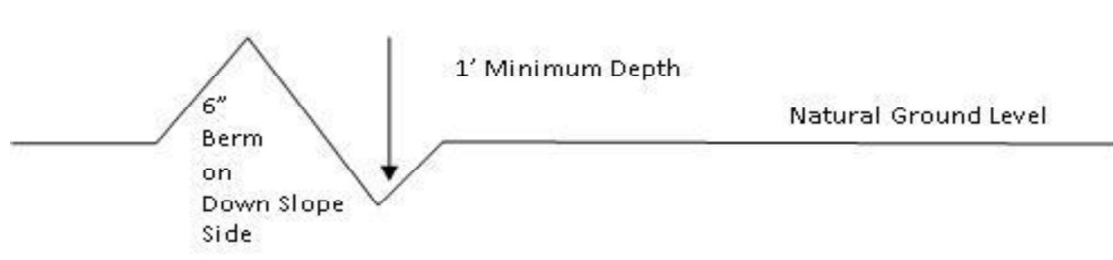
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

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

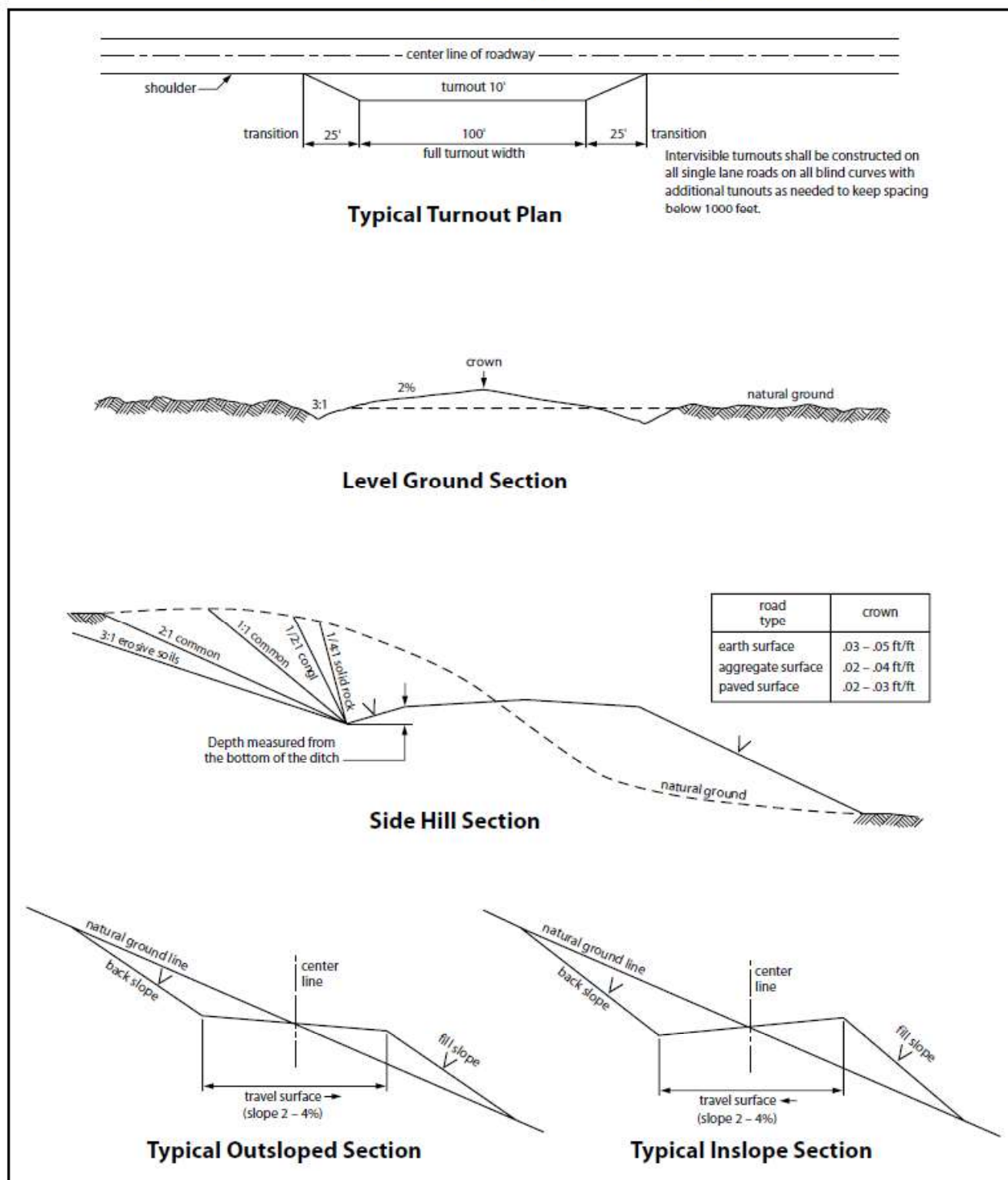


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. 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.

5. PRODUCTION (POST DRILLING)

5.1 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.

6. 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 cause 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

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 bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
WELL NAME & NO.: Brushy Draw 31-7 Fed 104H
LOCATION: 31-25S-30E-NMP
COUNTY: Eddy County, New Mexico

Create COAs

H₂S Not Reported	Cave / Karst Low	Waste Prevention Rule Waste Minimization Plan
Potash None	R-111-Q Design 	
Wellhead Multibowl	Casing 3-String Well ☐ Liner ☐ Fluid Filled ☒ Casing Clearance	
☒ Flex Hose ☒ Break Testing	Cementing ☐ DV Tool ☒ Bradenhead ☒ Echometer ☒ Offline Cement ☐ Open Annulus ☐ Pilot Hole	
Special Requirements		
☐ Capitan Reef	☐ Water Disposal	☐ COM
☐ Unit		

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1085** 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.
 - 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 (including 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.

Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon**. **Excess calculates to 35%. Additional cement maybe required.**
- b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 33%. Additional cement maybe required.**

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the BLM. If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified. ***If cement does not reach surface, the next casing string must come to surface.***

- Operator shall run a CBL from TD of the **Surface** casing to tieback requirements listed above after the second stage BH to verify TOC.
 - **Operator shall run Echo-meter to verify Cement Slurry/Fluid top in the annulus.** 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 use a limited flush fluid volume of 1 bbl following backside cementing procedures.
 - No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface.
 - Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 24%. Additional cement maybe required.**

- If cement does not circulate to surface on this casing, the next string must come to surface.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) annular which shall be tested to 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 must be followed.
2. 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).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 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.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drilling the production hole section.**
 - b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
 - c. 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).
 - d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
 - e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. 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.

D. SPECIAL REQUIREMENT(S)

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production**. Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

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.

Approved by Zota Stevens on 7/24/2025

575-234-5998 / zstevens@blm.gov



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

Operator Certification Data Report

07/30/2025

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: RAVI SAGAR**Signed on:** 10/31/2024**Title:** Regulatory Clerk**Street Address:** 22777 SPRINGWOODS VILLAGE PKWY**City:** SPRING**State:** TX**Zip:** 77389**Phone:** (817)870-2800**Email address:** RAVI.SAGAR@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

07/30/2025

APD ID: 10400101709

Submission Date: 10/31/2024

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400101709

Tie to previous NOS? N

Submission Date: 10/31/2024

BLM Office: Carlsbad

User: RAVI SAGAR

Title: Regulatory Clerk

Federal/Indian APD: FED

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

Lease number: NMNM102033

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM144140

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: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE

Pool Name: WOLFCAMP
(GAS)

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

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: SINGLE WELL

Multiple Well Pad Name:

Number:

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town:

Distance to nearest well: 30 FT

Distance to lease line: 1379 FT

Reservoir well spacing assigned acres Measurement: 720 Acres

Well plat: BRUSHY_DRAW_31_7_FEDERAL_104H_C102_FINAL_06_23_2025_20250625044805.pdf

Well work start Date: 10/14/2025

Duration: 45 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	1379	FNL	1753	FEL	25S	30E	31	Aliquot SWNE	32.089831	- 103.917692	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 102033	3114			Y
KOP Leg #1	180	FSL	1931	FEL	25S	30E	30	Aliquot SWSE	32.094114	- 103.918255	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 14785	- 7661	10944	10775	N
PPP Leg #1-1	330	FNL	2054	FEL	25S	30E	31	Aliquot NWNE	32.092711	- 103.918655	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 102033	- 8377	12069	11491	Y

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

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	232 6	FNL	217 1	FEL	26S	30E	7	Aliquot SWNE	32.05801 6	- 103.9190 14	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 102035	- 837 7	245 08	114 91	Y
BHL Leg #1	247 6	FNL	217 1	FEL	26S	30E	7	Aliquot SWNE	32.05760 4	- 103.9190 14	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 102035	- 837 7	246 58	114 91	Y

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	C-102 Revised July, 09 2024 Submit Electronically via OCD permitting
		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code	Property Name BRUSHY DRAW 31-7 FEDERAL	Well Number 104H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,114'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	31	25S	30E		1,379 FNL	1,753 FEL	32.089831	-103.917692	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	7	26S	30E		2,476 FNL	2,171 FEL	32.057604	-103.919014	EDDY

Dedicated Acres 720.00	Infill or Defining Well INFILL	Defining Well API 30-015-45188	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers.			Well Setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	30	25S	30E		180 FSL	1,931 FEL	32.094114	-103.918255	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	31	25S	30E		330 FNL	2,054 FEL	32.092711	-103.918655	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	7	26S	30E		2,326 FNL	2,171 FEL	32.058016	-103.919014	EDDY

Unitized Area or Area of Interest NMNM-144140	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Elevation 3,114'
---	---	-----------------------------------

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.

Samantha Weis 6/24/2025
Signature Date

Samantha Weis

Printed Name

samantha.r.bartnik@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]
Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786
Certificate Number

6/23/2025
Date of Survey

DN

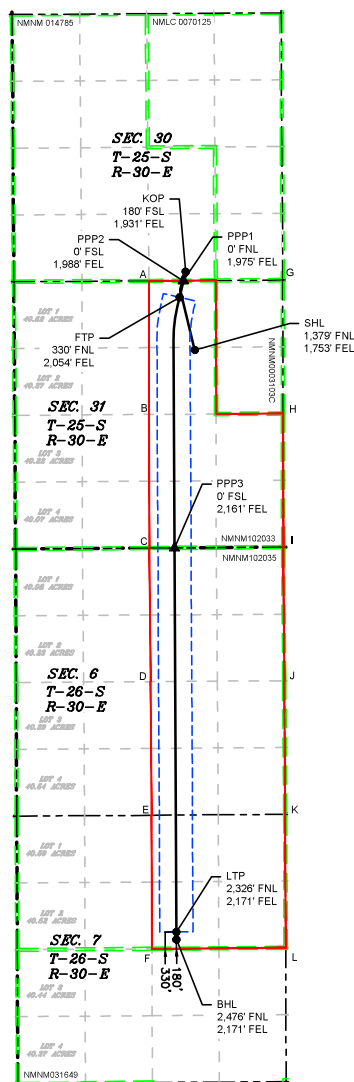
618.013014.02-04

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 areage in a red box, clearly show the well surface location and bottom hole location, if it is 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 or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors 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 accepted.



LEGEND

	SECTION LINE		330' BUFFER		PPP
	TOWNSHIP LINE		MINERAL LEASE		WELL
	DEDICATED ACREAGE		WELL BORE		

WELL COORDINATE TABLE							
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LON
SHL	670,056.1	396,665.4	32.089831	-103.917692	628,871.1	396,607.2	32.089706
KOP	669,875.7	398,223.0	32.094114	-103.918255	628,690.8	398,164.8	32.093989
FTP	669,753.9	397,712.0	32.092711	-103.918655	628,569.0	397,653.8	32.092586
LTP	669,691.2	385,090.3	32.058016	-103.919014	628,505.9	385,032.5	32.057891
BHL	669,691.7	384,940.3	32.057604	-103.919014	628,506.4	384,862.5	32.057478
PPP 1	669,819.1	398,042.4	32.093619	-103.918440	628,634.2	397,984.2	32.093494
PPP 2	669,832.8	398,042.5	32.093619	-103.918396	628,647.8	397,984.3	32.093494
PPP 3	669,652.8	392,728.7	32.079014	-103.919043	628,467.6	392,670.7	32.078889

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	669,143.7	398,038.1	627,958.7	397,979.9
B	669,148.4	395,382.1	627,963.3	395,323.9
C	669,153.0	392,724.9	627,967.9	392,666.9
D	669,175.5	390,069.6	627,990.3	390,011.7
E	669,197.9	387,411.9	628,012.6	387,354.0
F	669,204.1	384,756.6	628,018.7	384,698.7
G	671,807.6	398,055.2	630,622.6	397,997.0
H	671,810.4	395,399.9	630,625.3	395,341.8
I	671,814.0	392,745.3	630,628.8	392,687.2
J	671,835.0	390,088.9	630,649.7	390,030.9
K	671,853.2	387,433.3	630,667.8	387,375.4
L	671,863.4	384,776.9	630,678.0	384,719.1



Drilling Plan Data Report

07/30/2025

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

APD ID: 10400101709

Submission Date: 10/31/2024

Operator Name: XTO PERMIAN OPERATING LLC

Highlighted data
reflects the most
recent changes

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

Well Type: CONVENTIONAL GAS 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
16106079	QUATERNARY	3114	0	0	ALLUVIUM	USEABLE WATER	N
16106067	RUSTLER	2378	736	736	ANHYDRITE, SANDSTONE	USEABLE WATER	N
16106068	SALADO	2004	1110	1110	SALT	NONE	N
16106066	BASE OF SALT	-114	3228	3228	SALT	NONE	N
16106070	DELAWARE	-426	3540	3540	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106071	BRUSHY CANYON	-2922	6036	6036	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106072	BONE SPRING	-4163	7277	7277	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106073	BONE SPRING 1ST	-5085	8199	8199	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106074	BONE SPRING 2ND	-5721	8835	8835	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106075	BONE SPRING 3RD	-6956	10070	10070	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106062	WOLFCAMP	-8329	11443	11443	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y
16106065		0					

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11491

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

Requesting Variance? YES

Variance request: Offline Cementing Variance XOM requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XOM will ensure well is static with no pressure on the csg annulus, as with all other

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

casing strings where batch drilling operations occur before moving off the rig. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Flex Hose Variance A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. 10M Annular Variance XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP). Open Hole Logging Variance Open hole logging will not be done on this well. Spudder Rig Variance XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing. Batch Drilling Variance XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

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

Choke Diagram Attachment:

Brush_Draw_31_7___10MCM_20241029053042.pdf

BOP Diagram Attachment:

Brush_Draw_31_7__5M10M_BOP_20241029053104.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	Y	0	1085	0	1085	3114	2029	1085	J-55	40	BUTT	10.94	11.86	DRY	5.09	DRY	5.09
2	INTERMEDIATE	8.75	7.625	NEW	NON API	Y	0	10794	0	10625	3114	-7511	10794	P-110	29.7	OTHER - Tenaris Wedge 511	5.13	2.91	DRY	2.93	DRY	2.93
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24658	0	11491	3114	-8377	24658	P-110	20	OTHER - TPN/Tenaris Wedge 441	2.47	1.18	DRY	2.58	DRY	2.58

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**Casing Attachments****Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):****Casing ID:** 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:**

Wedge_511__7.625__29.70_0.375_L80_IC_20250626042217.pdf

Wedge_511__7.625__29.70_0.375_P110_ICY_20250626042217.pdf

Tapered String Spec:**Casing Design Assumptions and Worksheet(s):****Casing ID:** 3 **String** PRODUCTION**Inspection Document:****Spec Document:**

TPN__5.500__20.00_0.361_P110_ICY_20250626052632.pdf

Wedge_441__5.500__20.00_0.361_P110_ICY_20250626042514.pdf

Tapered String Spec:

Casing_and_Tapered_Spec_20250626044106.pdf

Casing Design Assumptions and Worksheet(s):

Casing_and_Tapered_Spec_20250626044130.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	NA	NA
PRODUCTION	Tail		1029 4	2465 8	1012	1.44	13.2	1457.28	25	Class C	NA
SURFACE	Lead		0	785	233	2.11	12.4	491.63	100	Class C	NA
SURFACE	Tail		785	1085	141	1.33	14.8	187.53	100	Class C	NA
INTERMEDIATE	Lead		0	6036	565	1.45	14.8	819.25	35	Class C	NA
INTERMEDIATE	Tail		6036	1079 4	445	1.45	14.8	645.25	35	Class C	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: Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) 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	1085	WATER-BASED MUD	8.3	8.7							Fresh Water or Native Water
1085	1079 4	OTHER : BDE/OBM or	9.5	10							Fluid type will be based upon on well conditions. A

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

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
		FW/Brine									fully saturated system will be used across the salt interval.
1079 4	2465 8	OIL-BASED MUD	9.5	12.5							

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:

CEMENT BOND LOG,GAMMA RAY LOG,MEASUREMENT WHILE DRILLING,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: 7469

Anticipated Surface Pressure: 4940

Anticipated Bottom Hole Temperature(F): 198

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_20241029051241.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**Section 8 - Other Information****Proposed horizontal/directional/multi-lateral plan submission:**

Brushy_Draw_31_7_Federal_104H_DD_Updated_20250626045047.pdf

Brushy_Draw_31_7_Federal_104H_Plan_Views_20250626045050.pdf

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

Brush_Draw_31_7___MBS_9.625_x_7.625_3String_20241029065646.pdf

H2S_Diagram_DiaA_Updated_20250408130344.pdf

NGMPForm___BD_31_7_FED___latest_20250626044924.pdf

Brushy_Draw_31_7_Federal_104H_DP_Updated_20250626051404.pdf

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

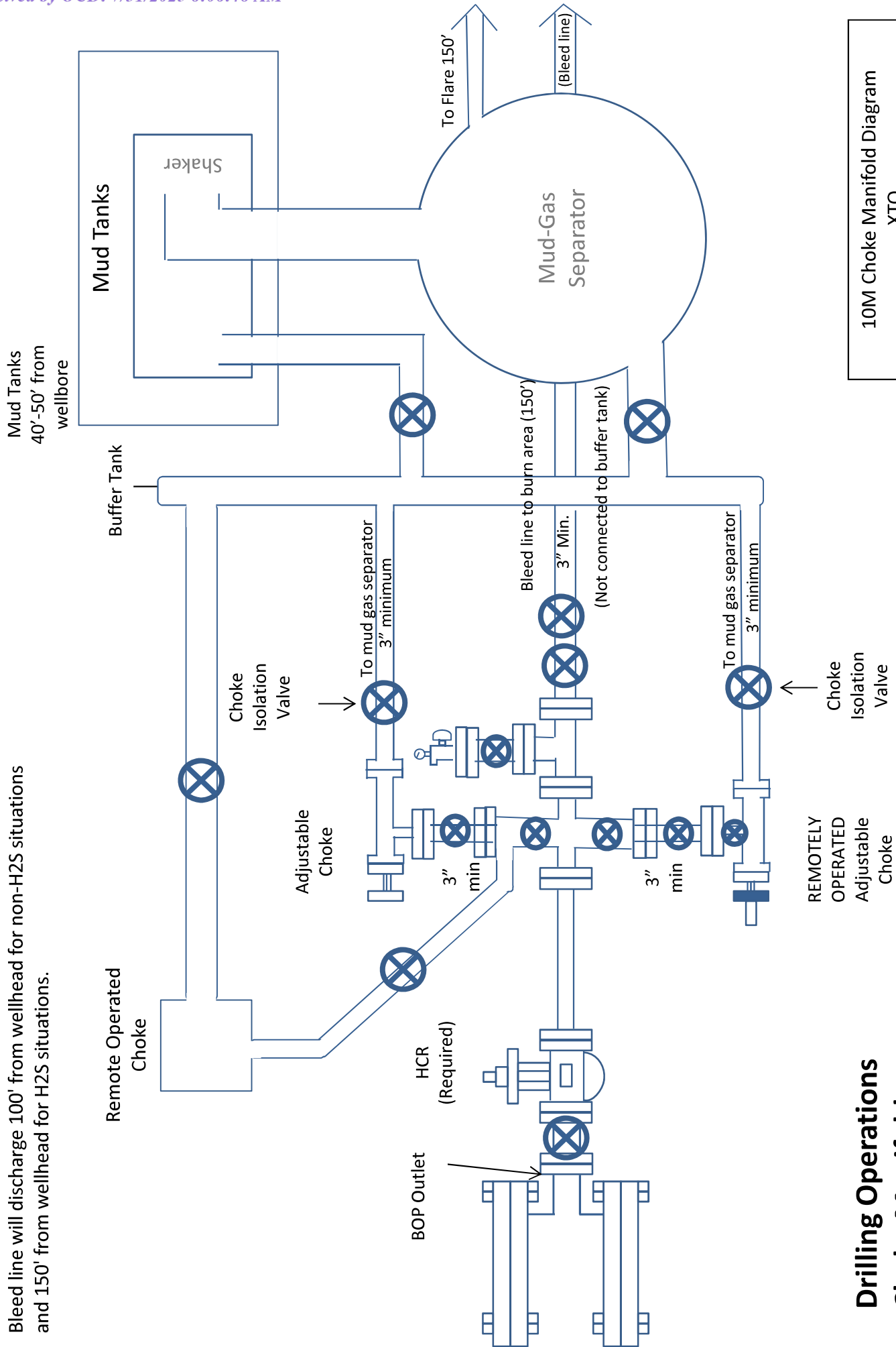
Brush_Draw_31_7__Flex_Hose_Updated_20241029064809.pdf

Brush_Draw_31_7__OLCV_20241029064740.pdf

Spudder_Rig_Request_20241029064809.pdf

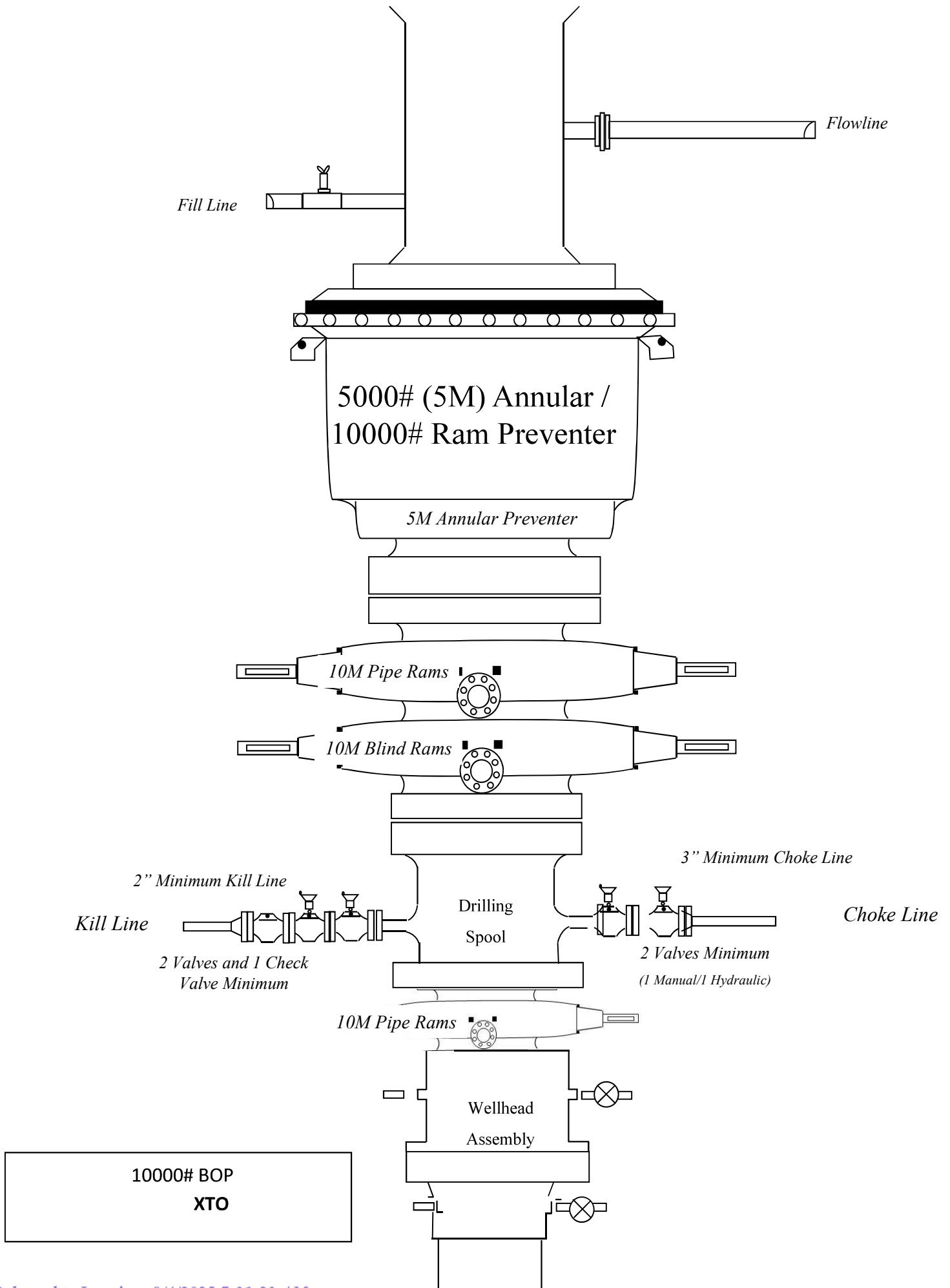
Wild_Well_Control_Plan_20241029064835.pdf

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**





TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	683 x1000 lb
		Min. Internal Yield Pressure	6890 psi
		SMYS	80,000 psi
		Collapse Pressure	5900 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	417 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	6890 psi	Maximum	10,300 ft-lb
Threads per inch	3.28	Compression Efficiency	73.80 %		
Connection OD Option	Regular	Compression Strength	504 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	29.33 °/100 ft	Operating Torque	35,000 ft-lb
		External Pressure Capacity	5900 psi	Yield Torque	52,000 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 511



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	7.625 in.	Wall Thickness	0,375 in.	Grade	P110-4CY
Min. Wall Thickness	90,00 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	1068 x1000 lb
		Min. Internal Yield Pressure	11,070 psi
		SMYS	125,000 psi
		Collapse Pressure	7360 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	653 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	11,070 psi	Maximum	10,300 ft-lb
Threads per inch	3.28	Compression Efficiency	73.80 %		
Connection OD Option	Regular	Compression Strength	788 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	45.83 °/100 ft	Operating Torque	55,000 ft-lb
		External Pressure Capacity	7360 psi	Yield Torque	82,000 ft-lb

Notes

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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: -

Customer	XTO ENERGY INC.	Wall Thickness	0.361 in.	Grade	P110-ICY
Outside Diameter	5.500 in.	Pipe Body Drift	API Standard	Type	Casing
Min. Wall Thickness	87.50 %				
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	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

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PH-0/CII-3



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) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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See drilling plan for the required casing assumptions table

See drilling plan for the required casing assumptions table



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

ROC

Long Lead - PLU 31-7
Brushy Draw 31-7 Federal
104H

OH

Plan: Plan 0

Standard Planning Report

23 June, 2025

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Project	Long Lead - PLU 31-7		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Brushy Draw 31-7 Federal		
Site Position:		Northing:	396,606.20 usft
From:	Map	Easting:	628,781.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 22.934 N
		Longitude:	103° 55' 2.998 W

Well	104H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
Grid Convergence:	0.22 °		
		Latitude:	32° 5' 22.940 N
		Longitude:	103° 55' 1.952 W
		Ground Level:	3,114.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/27/2025	6.23	59.60	46,971.27308088

Design	Plan 0				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.75	

Plan Survey Tool Program	Date	6/20/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	24,658.2 Plan 0 (OH)	XOMR2_OWSG MWD+IFR1+I		
			OWSG MWD + IFR1 + Multi-St		

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,050.0	13.00	346.00	2,044.4	71.2	-17.8	2.00	2.00	0.00	346.00	
7,050.0	13.00	346.00	6,916.3	1,162.6	-289.9	0.00	0.00	0.00	0.00	
7,391.4	10.00	17.40	7,251.1	1,228.2	-290.3	2.00	-0.88	9.20	130.44	
9,131.4	10.00	17.40	8,964.6	1,516.5	-199.9	0.00	0.00	0.00	0.00	
9,631.4	0.00	0.00	9,462.1	1,558.1	-186.9	2.00	-2.00	0.00	180.00	
10,944.1	0.00	0.00	10,774.8	1,558.1	-186.9	0.00	0.00	0.00	0.00	
12,069.1	90.00	192.65	11,491.0	859.2	-343.8	8.00	8.00	0.00	192.65	
12,708.3	90.00	179.87	11,491.0	225.1	-413.3	2.00	0.00	-2.00	-90.00	
16,869.9	90.00	179.87	11,491.0	-3,936.5	-403.5	0.00	0.00	0.00	0.00	PPP3 104H v1
24,508.2	90.00	179.56	11,491.0	-11,574.7	-365.2	0.00	0.00	0.00	-89.99	LTP 104H v1
24,658.2	90.00	179.56	11,491.0	-11,724.7	-364.0	0.00	0.00	0.00	0.00	BHL 104H v1

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	2.00	346.00	1,500.0	1.7	-0.4	-1.7	2.00	2.00	0.00
1,600.0	4.00	346.00	1,599.8	6.8	-1.7	-6.8	2.00	2.00	0.00
1,700.0	6.00	346.00	1,699.5	15.2	-3.8	-15.2	2.00	2.00	0.00
1,800.0	8.00	346.00	1,798.7	27.1	-6.7	-27.1	2.00	2.00	0.00
1,900.0	10.00	346.00	1,897.5	42.2	-10.5	-42.3	2.00	2.00	0.00
2,000.0	12.00	346.00	1,995.6	60.7	-15.1	-60.8	2.00	2.00	0.00
2,050.0	13.00	346.00	2,044.4	71.2	-17.8	-71.3	2.00	2.00	0.00
2,100.0	13.00	346.00	2,093.2	82.2	-20.5	-82.2	0.00	0.00	0.00
2,200.0	13.00	346.00	2,190.6	104.0	-25.9	-104.1	0.00	0.00	0.00
2,300.0	13.00	346.00	2,288.0	125.8	-31.4	-125.9	0.00	0.00	0.00
2,400.0	13.00	346.00	2,385.5	147.6	-36.8	-147.8	0.00	0.00	0.00
2,500.0	13.00	346.00	2,482.9	169.5	-42.3	-169.7	0.00	0.00	0.00
2,600.0	13.00	346.00	2,580.3	191.3	-47.7	-191.5	0.00	0.00	0.00
2,700.0	13.00	346.00	2,677.8	213.1	-53.1	-213.4	0.00	0.00	0.00
2,800.0	13.00	346.00	2,775.2	234.9	-58.6	-235.2	0.00	0.00	0.00
2,900.0	13.00	346.00	2,872.7	256.8	-64.0	-257.1	0.00	0.00	0.00
3,000.0	13.00	346.00	2,970.1	278.6	-69.5	-278.9	0.00	0.00	0.00
3,100.0	13.00	346.00	3,067.5	300.4	-74.9	-300.8	0.00	0.00	0.00
3,200.0	13.00	346.00	3,165.0	322.3	-80.3	-322.6	0.00	0.00	0.00
3,300.0	13.00	346.00	3,262.4	344.1	-85.8	-344.5	0.00	0.00	0.00
3,400.0	13.00	346.00	3,359.8	365.9	-91.2	-366.3	0.00	0.00	0.00
3,500.0	13.00	346.00	3,457.3	387.7	-96.7	-388.2	0.00	0.00	0.00
3,600.0	13.00	346.00	3,554.7	409.6	-102.1	-410.0	0.00	0.00	0.00
3,700.0	13.00	346.00	3,652.1	431.4	-107.6	-431.9	0.00	0.00	0.00
3,800.0	13.00	346.00	3,749.6	453.2	-113.0	-453.7	0.00	0.00	0.00
3,900.0	13.00	346.00	3,847.0	475.0	-118.4	-475.6	0.00	0.00	0.00
4,000.0	13.00	346.00	3,944.5	496.9	-123.9	-497.4	0.00	0.00	0.00
4,100.0	13.00	346.00	4,041.9	518.7	-129.3	-519.3	0.00	0.00	0.00
4,200.0	13.00	346.00	4,139.3	540.5	-134.8	-541.1	0.00	0.00	0.00
4,300.0	13.00	346.00	4,236.8	562.3	-140.2	-563.0	0.00	0.00	0.00
4,400.0	13.00	346.00	4,334.2	584.2	-145.7	-584.8	0.00	0.00	0.00
4,500.0	13.00	346.00	4,431.6	606.0	-151.1	-606.7	0.00	0.00	0.00
4,600.0	13.00	346.00	4,529.1	627.8	-156.5	-628.5	0.00	0.00	0.00
4,700.0	13.00	346.00	4,626.5	649.7	-162.0	-650.4	0.00	0.00	0.00
4,800.0	13.00	346.00	4,724.0	671.5	-167.4	-672.2	0.00	0.00	0.00
4,900.0	13.00	346.00	4,821.4	693.3	-172.9	-694.1	0.00	0.00	0.00
5,000.0	13.00	346.00	4,918.8	715.1	-178.3	-715.9	0.00	0.00	0.00
5,100.0	13.00	346.00	5,016.3	737.0	-183.7	-737.8	0.00	0.00	0.00
5,200.0	13.00	346.00	5,113.7	758.8	-189.2	-759.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	13.00	346.00	5,211.1	780.6	-194.6	-781.5	0.00	0.00	0.00
5,400.0	13.00	346.00	5,308.6	802.4	-200.1	-803.3	0.00	0.00	0.00
5,500.0	13.00	346.00	5,406.0	824.3	-205.5	-825.2	0.00	0.00	0.00
5,600.0	13.00	346.00	5,503.5	846.1	-211.0	-847.0	0.00	0.00	0.00
5,700.0	13.00	346.00	5,600.9	867.9	-216.4	-868.9	0.00	0.00	0.00
5,800.0	13.00	346.00	5,698.3	889.8	-221.8	-890.7	0.00	0.00	0.00
5,900.0	13.00	346.00	5,795.8	911.6	-227.3	-912.6	0.00	0.00	0.00
6,000.0	13.00	346.00	5,893.2	933.4	-232.7	-934.4	0.00	0.00	0.00
6,100.0	13.00	346.00	5,990.6	955.2	-238.2	-956.3	0.00	0.00	0.00
6,200.0	13.00	346.00	6,088.1	977.1	-243.6	-978.1	0.00	0.00	0.00
6,300.0	13.00	346.00	6,185.5	998.9	-249.1	-1,000.0	0.00	0.00	0.00
6,400.0	13.00	346.00	6,282.9	1,020.7	-254.5	-1,021.8	0.00	0.00	0.00
6,500.0	13.00	346.00	6,380.4	1,042.5	-259.9	-1,043.7	0.00	0.00	0.00
6,600.0	13.00	346.00	6,477.8	1,064.4	-265.4	-1,065.5	0.00	0.00	0.00
6,700.0	13.00	346.00	6,575.3	1,086.2	-270.8	-1,087.4	0.00	0.00	0.00
6,800.0	13.00	346.00	6,672.7	1,108.0	-276.3	-1,109.2	0.00	0.00	0.00
6,900.0	13.00	346.00	6,770.1	1,129.8	-281.7	-1,131.1	0.00	0.00	0.00
7,000.0	13.00	346.00	6,867.6	1,151.7	-287.1	-1,152.9	0.00	0.00	0.00
7,050.0	13.00	346.00	6,916.3	1,162.6	-289.9	-1,163.9	0.00	0.00	0.00
7,100.0	12.37	349.55	6,965.1	1,173.3	-292.2	-1,174.6	2.00	-1.25	7.11
7,200.0	11.28	357.75	7,062.9	1,193.6	-294.5	-1,194.9	2.00	-1.09	8.19
7,300.0	10.46	7.43	7,161.2	1,212.4	-293.7	-1,213.7	2.00	-0.82	9.68
7,391.4	10.00	17.40	7,251.1	1,228.2	-290.3	-1,229.5	2.00	-0.50	10.91
7,400.0	10.00	17.40	7,259.6	1,229.6	-289.8	-1,230.9	0.00	0.00	0.00
7,500.0	10.00	17.40	7,358.1	1,246.2	-284.7	-1,247.5	0.00	0.00	0.00
7,600.0	10.00	17.40	7,456.5	1,262.8	-279.5	-1,264.0	0.00	0.00	0.00
7,700.0	10.00	17.40	7,555.0	1,279.3	-274.3	-1,280.5	0.00	0.00	0.00
7,800.0	10.00	17.40	7,653.5	1,295.9	-269.1	-1,297.1	0.00	0.00	0.00
7,900.0	10.00	17.40	7,752.0	1,312.5	-263.9	-1,313.6	0.00	0.00	0.00
8,000.0	10.00	17.40	7,850.5	1,329.1	-258.7	-1,330.2	0.00	0.00	0.00
8,100.0	10.00	17.40	7,949.0	1,345.6	-253.5	-1,346.7	0.00	0.00	0.00
8,200.0	10.00	17.40	8,047.4	1,362.2	-248.3	-1,363.3	0.00	0.00	0.00
8,300.0	10.00	17.40	8,145.9	1,378.8	-243.1	-1,379.8	0.00	0.00	0.00
8,400.0	10.00	17.40	8,244.4	1,395.3	-237.9	-1,396.4	0.00	0.00	0.00
8,500.0	10.00	17.40	8,342.9	1,411.9	-232.7	-1,412.9	0.00	0.00	0.00
8,600.0	10.00	17.40	8,441.4	1,428.5	-227.5	-1,429.5	0.00	0.00	0.00
8,700.0	10.00	17.40	8,539.8	1,445.0	-222.3	-1,446.0	0.00	0.00	0.00
8,800.0	10.00	17.40	8,638.3	1,461.6	-217.1	-1,462.6	0.00	0.00	0.00
8,900.0	10.00	17.40	8,736.8	1,478.2	-212.0	-1,479.1	0.00	0.00	0.00
9,000.0	10.00	17.40	8,835.3	1,494.8	-206.8	-1,495.7	0.00	0.00	0.00
9,100.0	10.00	17.40	8,933.8	1,511.3	-201.6	-1,512.2	0.00	0.00	0.00
9,131.4	10.00	17.40	8,964.6	1,516.5	-199.9	-1,517.4	0.00	0.00	0.00
9,200.0	8.63	17.40	9,032.4	1,527.1	-196.6	-1,528.0	2.00	-2.00	0.00
9,300.0	6.63	17.40	9,131.5	1,539.8	-192.6	-1,540.6	2.00	-2.00	0.00
9,400.0	4.63	17.40	9,231.0	1,549.1	-189.7	-1,550.0	2.00	-2.00	0.00
9,500.0	2.63	17.40	9,330.8	1,555.2	-187.8	-1,556.0	2.00	-2.00	0.00
9,600.0	0.63	17.40	9,430.7	1,557.9	-187.0	-1,558.7	2.00	-2.00	0.00
9,631.4	0.00	0.00	9,462.1	1,558.1	-186.9	-1,558.9	2.00	-2.00	0.00
9,700.0	0.00	0.00	9,530.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,630.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,730.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,830.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,100.0	0.00	0.00	9,930.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,030.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	0.00	0.00	10,130.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,230.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,500.0	0.00	0.00	10,330.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,430.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,530.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,630.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,730.7	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
10,944.1	0.00	0.00	10,774.8	1,558.1	-186.9	-1,558.9	0.00	0.00	0.00
11,000.0	4.48	192.65	10,830.7	1,555.9	-187.4	-1,556.7	8.00	8.00	0.00
11,100.0	12.48	192.65	10,929.5	1,541.6	-190.6	-1,542.4	8.00	8.00	0.00
11,200.0	20.48	192.65	11,025.3	1,513.9	-196.8	-1,514.8	8.00	8.00	0.00
11,300.0	28.48	192.65	11,116.3	1,473.5	-205.9	-1,474.4	8.00	8.00	0.00
11,400.0	36.48	192.65	11,200.6	1,421.2	-217.6	-1,422.1	8.00	8.00	0.00
11,500.0	44.48	192.65	11,276.6	1,357.9	-231.9	-1,358.9	8.00	8.00	0.00
11,600.0	52.48	192.65	11,342.8	1,284.9	-248.2	-1,286.0	8.00	8.00	0.00
11,700.0	60.48	192.65	11,398.0	1,203.6	-266.5	-1,204.8	8.00	8.00	0.00
11,800.0	68.48	192.65	11,441.1	1,115.6	-286.2	-1,116.9	8.00	8.00	0.00
11,900.0	76.48	192.65	11,471.1	1,022.7	-307.1	-1,024.0	8.00	8.00	0.00
12,000.0	84.48	192.65	11,487.7	926.5	-328.7	-928.0	8.00	8.00	0.00
12,069.1	90.00	192.65	11,491.0	859.2	-343.8	-860.8	8.00	8.00	0.00
12,100.0	90.00	192.03	11,491.0	829.0	-350.4	-830.6	2.00	0.00	-2.00
12,200.0	90.00	190.03	11,491.0	730.9	-369.5	-732.5	2.00	0.00	-2.00
12,300.0	90.00	188.03	11,491.0	632.1	-385.2	-633.8	2.00	0.00	-2.00
12,400.0	90.00	186.03	11,491.0	532.9	-397.4	-534.6	2.00	0.00	-2.00
12,500.0	90.00	184.03	11,491.0	433.3	-406.2	-435.1	2.00	0.00	-2.00
12,600.0	90.00	182.03	11,491.0	333.4	-411.5	-335.2	2.00	0.00	-2.00
12,700.0	90.00	180.03	11,491.0	233.4	-413.3	-235.3	2.00	0.00	-2.00
12,708.3	90.00	179.87	11,491.0	225.1	-413.3	-227.0	2.00	0.00	-2.00
12,800.0	90.00	179.87	11,491.0	133.4	-413.1	-135.3	0.00	0.00	0.00
12,900.0	90.00	179.87	11,491.0	33.4	-412.8	-35.3	0.00	0.00	0.00
13,000.0	90.00	179.87	11,491.0	-66.6	-412.6	64.7	0.00	0.00	0.00
13,100.0	90.00	179.87	11,491.0	-166.6	-412.4	164.7	0.00	0.00	0.00
13,200.0	90.00	179.87	11,491.0	-266.6	-412.1	264.7	0.00	0.00	0.00
13,300.0	90.00	179.87	11,491.0	-366.6	-411.9	364.7	0.00	0.00	0.00
13,400.0	90.00	179.87	11,491.0	-466.6	-411.7	464.7	0.00	0.00	0.00
13,500.0	90.00	179.87	11,491.0	-566.6	-411.4	564.7	0.00	0.00	0.00
13,600.0	90.00	179.87	11,491.0	-666.6	-411.2	664.7	0.00	0.00	0.00
13,700.0	90.00	179.87	11,491.0	-766.6	-411.0	764.7	0.00	0.00	0.00
13,800.0	90.00	179.87	11,491.0	-866.6	-410.7	864.7	0.00	0.00	0.00
13,900.0	90.00	179.87	11,491.0	-966.6	-410.5	964.7	0.00	0.00	0.00
14,000.0	90.00	179.87	11,491.0	-1,066.6	-410.3	1,064.7	0.00	0.00	0.00
14,100.0	90.00	179.87	11,491.0	-1,166.6	-410.0	1,164.7	0.00	0.00	0.00
14,200.0	90.00	179.87	11,491.0	-1,266.6	-409.8	1,264.7	0.00	0.00	0.00
14,300.0	90.00	179.87	11,491.0	-1,366.6	-409.6	1,364.7	0.00	0.00	0.00
14,400.0	90.00	179.87	11,491.0	-1,466.6	-409.3	1,464.7	0.00	0.00	0.00
14,500.0	90.00	179.87	11,491.0	-1,566.6	-409.1	1,564.7	0.00	0.00	0.00
14,600.0	90.00	179.87	11,491.0	-1,666.6	-408.8	1,664.7	0.00	0.00	0.00
14,700.0	90.00	179.87	11,491.0	-1,766.6	-408.6	1,764.7	0.00	0.00	0.00
14,800.0	90.00	179.87	11,491.0	-1,866.6	-408.4	1,864.7	0.00	0.00	0.00
14,900.0	90.00	179.87	11,491.0	-1,966.6	-408.1	1,964.7	0.00	0.00	0.00
15,000.0	90.00	179.87	11,491.0	-2,066.6	-407.9	2,064.7	0.00	0.00	0.00
15,100.0	90.00	179.87	11,491.0	-2,166.6	-407.7	2,164.7	0.00	0.00	0.00
15,200.0	90.00	179.87	11,491.0	-2,266.6	-407.4	2,264.7	0.00	0.00	0.00
15,300.0	90.00	179.87	11,491.0	-2,366.6	-407.2	2,364.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	90.00	179.87	11,491.0	-2,466.6	-407.0	2,464.7	0.00	0.00	0.00
15,500.0	90.00	179.87	11,491.0	-2,566.6	-406.7	2,564.7	0.00	0.00	0.00
15,600.0	90.00	179.87	11,491.0	-2,666.6	-406.5	2,664.7	0.00	0.00	0.00
15,700.0	90.00	179.87	11,491.0	-2,766.6	-406.3	2,764.7	0.00	0.00	0.00
15,800.0	90.00	179.87	11,491.0	-2,866.6	-406.0	2,864.7	0.00	0.00	0.00
15,900.0	90.00	179.87	11,491.0	-2,966.6	-405.8	2,964.7	0.00	0.00	0.00
16,000.0	90.00	179.87	11,491.0	-3,066.6	-405.5	3,064.7	0.00	0.00	0.00
16,100.0	90.00	179.87	11,491.0	-3,166.6	-405.3	3,164.7	0.00	0.00	0.00
16,200.0	90.00	179.87	11,491.0	-3,266.6	-405.1	3,264.7	0.00	0.00	0.00
16,300.0	90.00	179.87	11,491.0	-3,366.6	-404.8	3,364.7	0.00	0.00	0.00
16,400.0	90.00	179.87	11,491.0	-3,466.6	-404.6	3,464.7	0.00	0.00	0.00
16,500.0	90.00	179.87	11,491.0	-3,566.6	-404.4	3,564.7	0.00	0.00	0.00
16,600.0	90.00	179.87	11,491.0	-3,666.6	-404.1	3,664.7	0.00	0.00	0.00
16,700.0	90.00	179.87	11,491.0	-3,766.6	-403.9	3,764.7	0.00	0.00	0.00
16,800.0	90.00	179.87	11,491.0	-3,866.6	-403.7	3,864.7	0.00	0.00	0.00
16,869.9	90.00	179.87	11,491.0	-3,936.5	-403.5	3,934.7	0.00	0.00	0.00
16,900.0	90.00	179.86	11,491.0	-3,966.6	-403.4	3,964.7	0.00	0.00	0.00
17,000.0	90.00	179.86	11,491.0	-4,066.6	-403.2	4,064.7	0.00	0.00	0.00
17,100.0	90.00	179.86	11,491.0	-4,166.6	-402.9	4,164.7	0.00	0.00	0.00
17,200.0	90.00	179.85	11,491.0	-4,266.6	-402.7	4,264.7	0.00	0.00	0.00
17,300.0	90.00	179.85	11,491.0	-4,366.6	-402.4	4,364.7	0.00	0.00	0.00
17,400.0	90.00	179.84	11,491.0	-4,466.6	-402.2	4,464.7	0.00	0.00	0.00
17,500.0	90.00	179.84	11,491.0	-4,566.6	-401.9	4,564.7	0.00	0.00	0.00
17,600.0	90.00	179.84	11,491.0	-4,666.6	-401.6	4,664.7	0.00	0.00	0.00
17,700.0	90.00	179.83	11,491.0	-4,766.6	-401.3	4,764.7	0.00	0.00	0.00
17,800.0	90.00	179.83	11,491.0	-4,866.6	-401.0	4,864.7	0.00	0.00	0.00
17,900.0	90.00	179.82	11,491.0	-4,966.6	-400.7	4,964.7	0.00	0.00	0.00
18,000.0	90.00	179.82	11,491.0	-5,066.6	-400.4	5,064.7	0.00	0.00	0.00
18,100.0	90.00	179.82	11,491.0	-5,166.6	-400.1	5,164.7	0.00	0.00	0.00
18,200.0	90.00	179.81	11,491.0	-5,266.6	-399.8	5,264.7	0.00	0.00	0.00
18,300.0	90.00	179.81	11,491.0	-5,366.6	-399.4	5,364.7	0.00	0.00	0.00
18,400.0	90.00	179.80	11,491.0	-5,466.6	-399.1	5,464.7	0.00	0.00	0.00
18,500.0	90.00	179.80	11,491.0	-5,566.6	-398.7	5,564.7	0.00	0.00	0.00
18,600.0	90.00	179.80	11,491.0	-5,666.6	-398.4	5,664.7	0.00	0.00	0.00
18,700.0	90.00	179.79	11,491.0	-5,766.6	-398.0	5,764.7	0.00	0.00	0.00
18,800.0	90.00	179.79	11,491.0	-5,866.6	-397.7	5,864.7	0.00	0.00	0.00
18,900.0	90.00	179.78	11,491.0	-5,966.6	-397.3	5,964.7	0.00	0.00	0.00
19,000.0	90.00	179.78	11,491.0	-6,066.6	-396.9	6,064.7	0.00	0.00	0.00
19,100.0	90.00	179.78	11,491.0	-6,166.6	-396.5	6,164.7	0.00	0.00	0.00
19,200.0	90.00	179.77	11,491.0	-6,266.6	-396.1	6,264.7	0.00	0.00	0.00
19,300.0	90.00	179.77	11,491.0	-6,366.6	-395.7	6,364.7	0.00	0.00	0.00
19,400.0	90.00	179.76	11,491.0	-6,466.6	-395.3	6,464.7	0.00	0.00	0.00
19,500.0	90.00	179.76	11,491.0	-6,566.6	-394.9	6,564.7	0.00	0.00	0.00
19,600.0	90.00	179.76	11,491.0	-6,666.5	-394.5	6,664.7	0.00	0.00	0.00
19,700.0	90.00	179.75	11,491.0	-6,766.5	-394.0	6,764.7	0.00	0.00	0.00
19,800.0	90.00	179.75	11,491.0	-6,866.5	-393.6	6,864.7	0.00	0.00	0.00
19,900.0	90.00	179.74	11,491.0	-6,966.5	-393.2	6,964.7	0.00	0.00	0.00
20,000.0	90.00	179.74	11,491.0	-7,066.5	-392.7	7,064.7	0.00	0.00	0.00
20,100.0	90.00	179.74	11,491.0	-7,166.5	-392.3	7,164.7	0.00	0.00	0.00
20,200.0	90.00	179.73	11,491.0	-7,266.5	-391.8	7,264.7	0.00	0.00	0.00
20,300.0	90.00	179.73	11,491.0	-7,366.5	-391.3	7,364.7	0.00	0.00	0.00
20,400.0	90.00	179.72	11,491.0	-7,466.5	-390.8	7,464.7	0.00	0.00	0.00
20,500.0	90.00	179.72	11,491.0	-7,566.5	-390.4	7,564.7	0.00	0.00	0.00
20,600.0	90.00	179.72	11,491.0	-7,666.5	-389.9	7,664.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,700.0	90.00	179.71	11,491.0	-7,766.5	-389.4	7,764.7	0.00	0.00	0.00	
20,800.0	90.00	179.71	11,491.0	-7,866.5	-388.9	7,864.7	0.00	0.00	0.00	
20,900.0	90.00	179.70	11,491.0	-7,966.5	-388.4	7,964.7	0.00	0.00	0.00	
21,000.0	90.00	179.70	11,491.0	-8,066.5	-387.8	8,064.7	0.00	0.00	0.00	
21,100.0	90.00	179.70	11,491.0	-8,166.5	-387.3	8,164.7	0.00	0.00	0.00	
21,200.0	90.00	179.69	11,491.0	-8,266.5	-386.8	8,264.7	0.00	0.00	0.00	
21,300.0	90.00	179.69	11,491.0	-8,366.5	-386.2	8,364.7	0.00	0.00	0.00	
21,400.0	90.00	179.68	11,491.0	-8,466.5	-385.7	8,464.7	0.00	0.00	0.00	
21,500.0	90.00	179.68	11,491.0	-8,566.5	-385.1	8,564.7	0.00	0.00	0.00	
21,600.0	90.00	179.68	11,491.0	-8,666.5	-384.6	8,664.7	0.00	0.00	0.00	
21,700.0	90.00	179.67	11,491.0	-8,766.5	-384.0	8,764.7	0.00	0.00	0.00	
21,800.0	90.00	179.67	11,491.0	-8,866.5	-383.4	8,864.7	0.00	0.00	0.00	
21,900.0	90.00	179.66	11,491.0	-8,966.5	-382.8	8,964.7	0.00	0.00	0.00	
22,000.0	90.00	179.66	11,491.0	-9,066.5	-382.3	9,064.7	0.00	0.00	0.00	
22,100.0	90.00	179.66	11,491.0	-9,166.5	-381.7	9,164.7	0.00	0.00	0.00	
22,200.0	90.00	179.65	11,491.0	-9,266.5	-381.1	9,264.7	0.00	0.00	0.00	
22,300.0	90.00	179.65	11,491.0	-9,366.5	-380.4	9,364.7	0.00	0.00	0.00	
22,400.0	90.00	179.64	11,491.0	-9,466.5	-379.8	9,464.7	0.00	0.00	0.00	
22,500.0	90.00	179.64	11,491.0	-9,566.5	-379.2	9,564.7	0.00	0.00	0.00	
22,600.0	90.00	179.64	11,491.0	-9,666.5	-378.6	9,664.7	0.00	0.00	0.00	
22,700.0	90.00	179.63	11,491.0	-9,766.5	-377.9	9,764.7	0.00	0.00	0.00	
22,800.0	90.00	179.63	11,491.0	-9,866.5	-377.3	9,864.7	0.00	0.00	0.00	
22,900.0	90.00	179.62	11,491.0	-9,966.5	-376.6	9,964.7	0.00	0.00	0.00	
23,000.0	90.00	179.62	11,491.0	-10,066.5	-376.0	10,064.7	0.00	0.00	0.00	
23,100.0	90.00	179.62	11,491.0	-10,166.5	-375.3	10,164.7	0.00	0.00	0.00	
23,200.0	90.00	179.61	11,491.0	-10,266.5	-374.6	10,264.7	0.00	0.00	0.00	
23,300.0	90.00	179.61	11,491.0	-10,366.5	-374.0	10,364.7	0.00	0.00	0.00	
23,400.0	90.00	179.60	11,491.0	-10,466.5	-373.3	10,464.7	0.00	0.00	0.00	
23,500.0	90.00	179.60	11,491.0	-10,566.5	-372.6	10,564.7	0.00	0.00	0.00	
23,600.0	90.00	179.60	11,491.0	-10,666.5	-371.9	10,664.7	0.00	0.00	0.00	
23,700.0	90.00	179.59	11,491.0	-10,766.5	-371.2	10,764.7	0.00	0.00	0.00	
23,800.0	90.00	179.59	11,491.0	-10,866.5	-370.5	10,864.7	0.00	0.00	0.00	
23,900.0	90.00	179.58	11,491.0	-10,966.5	-369.7	10,964.7	0.00	0.00	0.00	
24,000.0	90.00	179.58	11,491.0	-11,066.5	-369.0	11,064.7	0.00	0.00	0.00	
24,100.0	90.00	179.58	11,491.0	-11,166.5	-368.3	11,164.7	0.00	0.00	0.00	
24,200.0	90.00	179.57	11,491.0	-11,266.5	-367.5	11,264.7	0.00	0.00	0.00	
24,300.0	90.00	179.57	11,491.0	-11,366.5	-366.8	11,364.7	0.00	0.00	0.00	
24,400.0	90.00	179.56	11,491.0	-11,466.5	-366.0	11,464.7	0.00	0.00	0.00	
24,500.0	90.00	179.56	11,491.0	-11,566.5	-365.3	11,564.7	0.00	0.00	0.00	
24,508.2	90.00	179.56	11,491.0	-11,574.7	-365.2	11,573.0	0.05	0.00	-0.05	
24,600.0	90.00	179.56	11,491.0	-11,666.5	-364.5	11,664.7	0.00	0.00	0.00	
24,658.2	90.00	179.56	11,491.0	-11,724.7	-364.0	11,723.0	0.00	0.00	0.00	

Planning Report

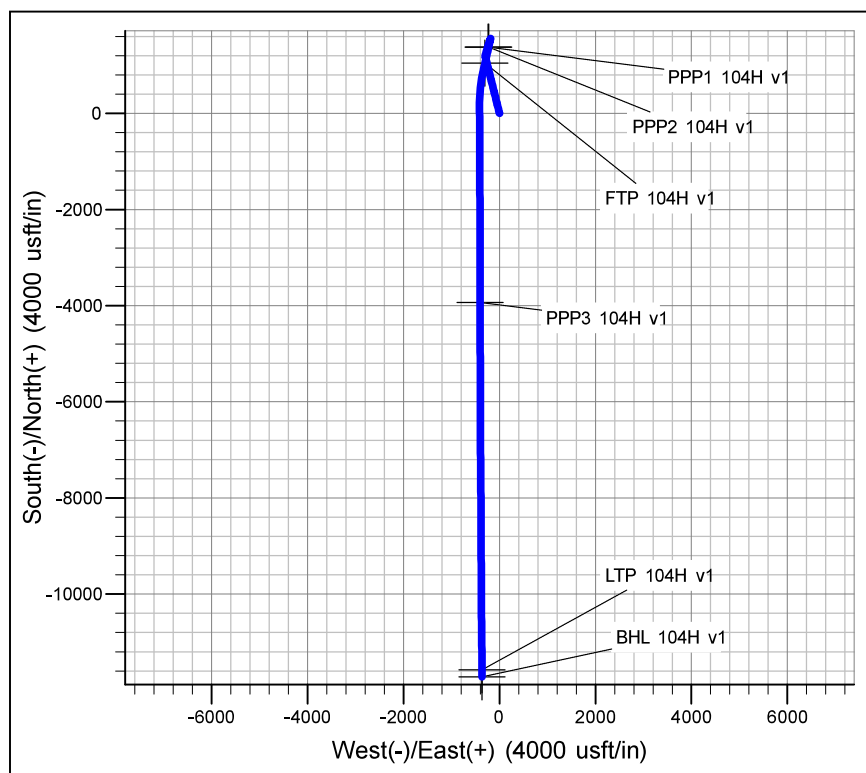
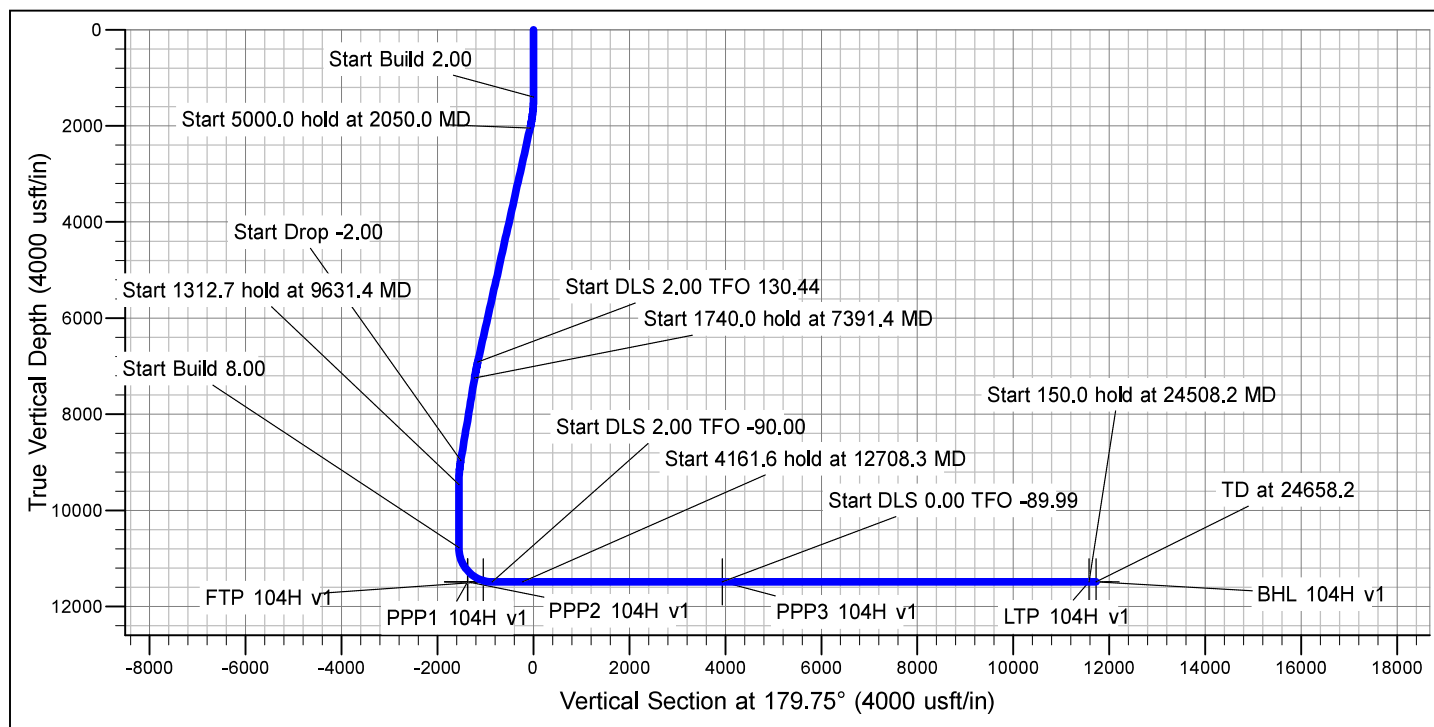
Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well 104H
Company:	ROC	TVD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Project:	Long Lead - PLU 31-7	MD Reference:	Elev: 3114' @ 3146.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	North Reference:	Grid
Well:	104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP 104H v1	0.00	360.00	11,491.0	1,046.6	-302.1	397,653.80	628,569.00	32° 5' 33.309 N	103° 55' 5.417 W
- plan misses target center by 25.3usft at 11882.7usft MD (11466.9 TVD, 1039.1 N, -303.4 E)									
- Point									
PPP1 104H v1	0.00	0.00	11,491.0	1,377.0	-236.9	397,984.20	628,634.20	32° 5' 36.577 N	103° 55' 4.644 W
- plan misses target center by 174.5usft at 11604.9usft MD (11345.8 TVD, 1281.1 N, -249.1 E)									
- Point									
PPP3 104H v1	0.00	0.00	11,491.0	-3,936.5	-403.5	392,670.70	628,467.60	32° 4' 43.999 N	103° 55' 6.818 W
- plan hits target center									
- Point									
PPP2 104H v1	0.00	0.00	11,491.0	1,377.1	-223.3	397,984.30	628,647.80	32° 5' 36.577 N	103° 55' 4.486 W
- plan misses target center by 176.1usft at 11602.3usft MD (11344.2 TVD, 1283.1 N, -248.6 E)									
- Point									
BHL 104H v1	0.00	360.00	11,491.0	-11,724.7	-364.7	384,882.50	628,506.40	32° 3' 26.922 N	103° 55' 6.715 W
- plan misses target center by 0.7usft at 24658.2usft MD (11491.0 TVD, -11724.7 N, -364.0 E)									
- Point									
LTP 104H v1	0.00	360.00	11,491.0	-11,574.7	-365.2	385,032.50	628,505.90	32° 3' 28.407 N	103° 55' 6.715 W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
735.9	735.9	Rustler				
1,110.1	1,110.1	Salado				
3,264.9	3,228.2	Base of Salt				
3,584.9	3,540.0	Delaware				
4,517.1	4,448.3	Cherry Canyon				
6,147.0	6,036.5	Brushy Canyon				
7,215.6	7,078.2	Basal Brushy Canyon				
7,417.2	7,276.5	Bone Spring Lm.				
7,597.4	7,454.0	Avalon				
7,986.2	7,836.9	Lower Avalon				
8,353.6	8,198.7	1st Bone Spring Sand				
8,853.0	8,690.5	2nd Bone Spring Lime				
8,999.6	8,834.8	2nd Bone Spring Sand				
9,674.5	9,505.3	3rd Bone Spring Lime				
9,823.4	9,654.2	Harkey				
10,239.6	10,070.4	3rd Bone Spring Shale				
10,674.2	10,504.9	Wolfcamp				
10,814.5	10,645.3	Wolfcamp A				
11,221.3	11,045.2	Wolfcamp B				
11,507.5	11,281.9	Wolfcamp C				
11,805.4	11,443.0	Wolfcamp D				
12,069.1	11,491.0	Wolfcamp D Landing				



Site: Brushy Draw 31-7 Federal
Well: 104H
Wellbore: OH
Design: Plan 0



FORMATION TOP DETAILS		
TVDPPath	MDPath	Formation
735.9	735.9	Rustler
1110.1	1110.1	Salado
3228.2	3264.9	Base of Salt
3540.0	3584.9	Delaware
4448.3	4517.1	Cherry Canyon
6036.5	6147.0	Brushy Canyon
7078.2	7215.6	Basal Brushy Canyon
7276.5	7417.2	Bone Spring Lm.
7454.0	7597.4	Avalon
7836.9	7986.2	Lower Avalon
8198.7	8353.6	1st Bone Spring Sand
8690.5	8853.0	2nd Bone Spring Lime
8834.8	8999.6	2nd Bone Spring Sand
9505.3	9674.5	3rd Bone Spring Lime
9654.2	9823.4	Harkey
10070.4	10239.6	3rd Bone Spring Shale
10505.0	10674.2	Wolfcamp
10645.3	10814.5	Wolfcamp A
11045.2	11221.3	Wolfcamp B
11281.9	11507.5	Wolfcamp C
11443.0	11805.4	Wolfcamp D
11491.0	12069.1	Wolfcamp D Landing

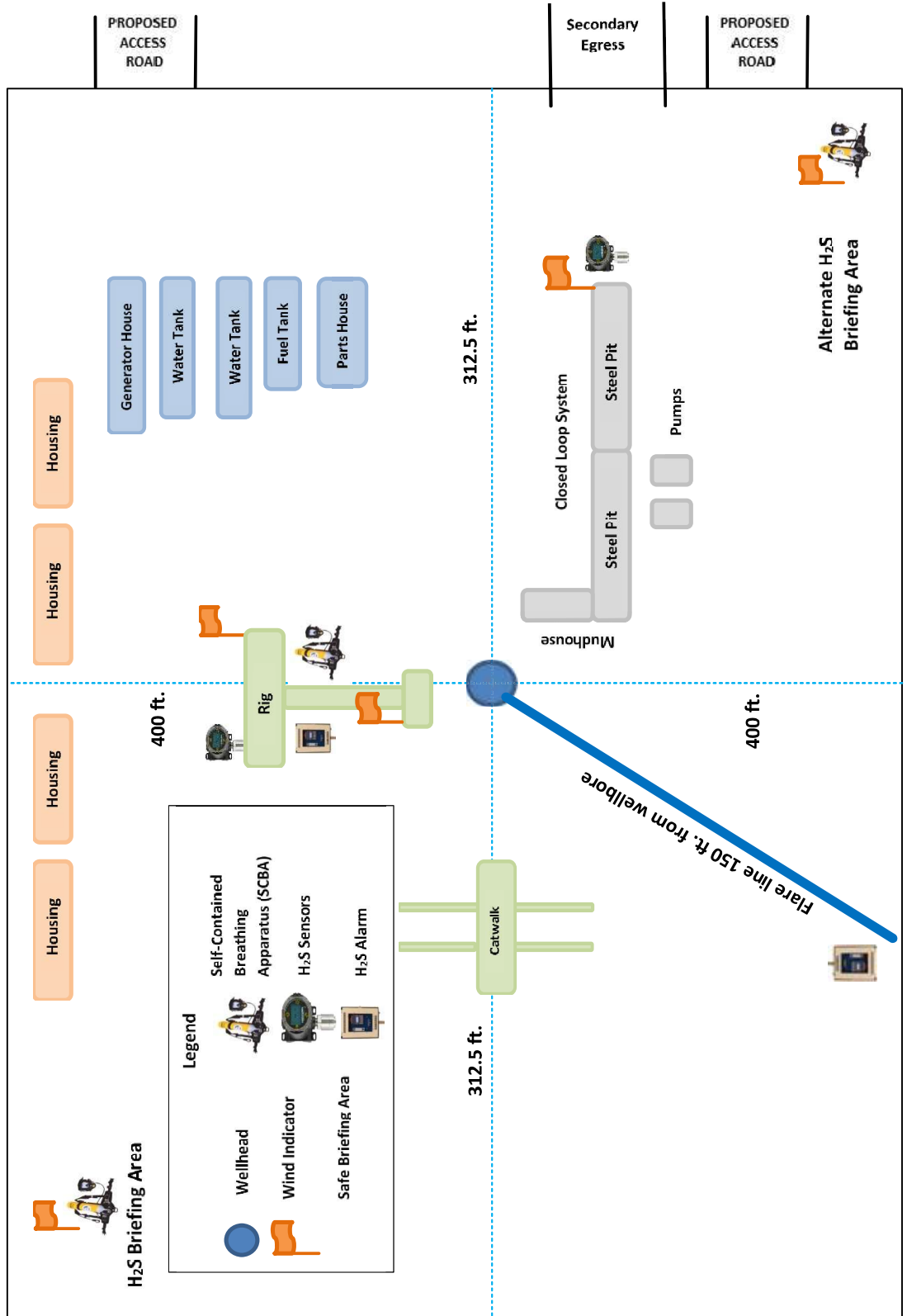
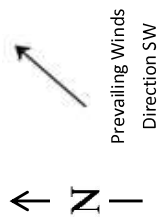


HBE0000479

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 Hanger

DRAWING NO.

H2S Briefing Areas and Alarm Locations



Legend

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: 06/20/2025

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	AP I	ULSTR	Footage s	Anticipate d Oil BBL/D	3 yr Anticipate d Decline oil BBL/D	Anticipate d Gas MCF/D	3 yr anticipate d decline Gas MCF/D	Anticipate d Produced Water BBL/D	3 yr anticipate d decline Water BBL/D
Brushy Draw 31-7 Fed 101H		31 25S 30E	1379 FNL, 1843 FEL	1,800	200	7,500	1,200	7,000	800
Brushy Draw 31-7 Fed 102H		31 25S 30E	1379 FNL, 1813 FEL	1,800	200	7,500	1,200	7,000	800
Brushy Draw 31-7 Fed 103H		31 25S 30E	1379 FNL, 1783 FEL	1,800	200	7,500	1,200	7,000	800
Brushy Draw 31-7 Fed 104H		31 25S 30E	1379 FNL, 1753 FEL	1,800	200	7,500	1,200	7,000	800
Brushy Draw 31-7 Fed 105H		31 25S 30E	1379 FNL, 1723 FEL	1,400	150	6,000	900	5,500	650
Brushy Draw 31-7 Fed 106H		31 25S 30E	1379 FNL, 1693 FEL	1,400	150	6,000	900	5,500	650

IV. Central Delivery Point Name: Poker Lake Unit 30-31 Battery [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
Brushy Draw 31-7 Federal Com 101H	TBD	12-25	TBD	TBD	TBD	06-26
Brushy Draw 31-7 Federal Com 102H	TBD	12-25	TBD	TBD	TBD	06-26
Brushy Draw 31-7 Federal Com 103H	TBD	12-25	TBD	TBD	TBD	06-26
Brushy Draw 31-7 Federal Com 104H	TBD	12-25	TBD	TBD	TBD	06-26
Brushy Draw 31-7 Federal Com 105H	TBD	12-25	TBD	TBD	TBD	06-26
Brushy Draw 31-7 Federal Com 106H	TBD	12-25	TBD	TBD	TBD	06-26

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: 

Printed Name: **Manoj Venkatesh**

Title: **Regulatory Analyst**

E-mail Address: manoj.venkatesh@exxonmobil.com

Date: **06/09/2025**

Phone: **+1 (832)-823-8071**

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.

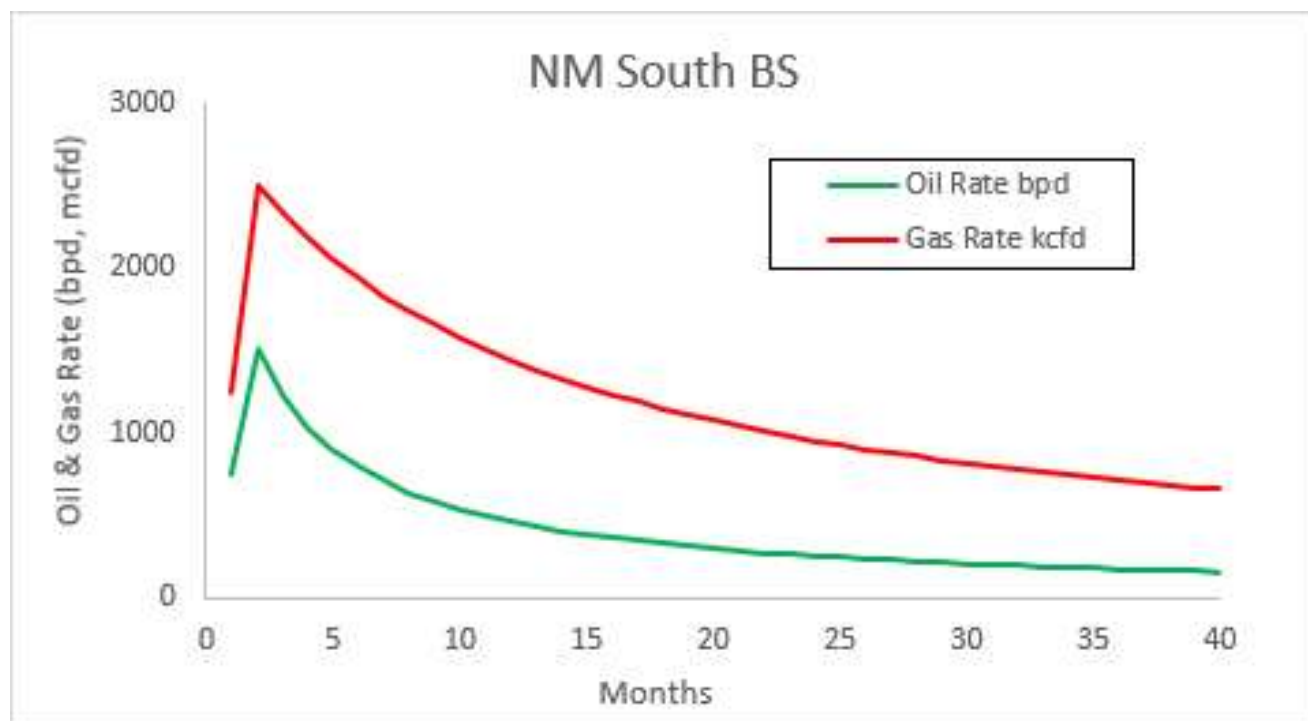
VII. Operational Practices

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.



DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

ExxonMobil
Brushy Draw 31-7 Federal 104H
Projected TD: 24658' MD / 11491' TVD
SHL: 1379' FNL & 1753' FEL , Section 31, T25S, R30E
BHL: 2476' FNL & 2171' FEL , Section 7, T26S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	736'	Water
Salado	1110'	Water
Base of Salt	3228'	Water
Delaware	3540'	Water
Cherry Canyon	4448'	Water/Oil/Gas
Brushy Canyon	6036'	Water/Oil/Gas
Basal Brushy Canyon	7078'	Water/Oil/Gas
Bone Spring Lm.	7277'	Water/Oil/Gas
Avalon	7454'	Water/Oil/Gas
Lower Avalon	7837'	Water/Oil/Gas
1st Bone Spring Sand	8199'	Water/Oil/Gas
2nd Bone Spring Lime	8691'	Water/Oil/Gas
2nd Bone Spring Sand	8835'	Water/Oil/Gas
3rd Bone Spring Lime	9505'	Water/Oil/Gas
Harkey	9654'	Water/Oil/Gas
3rd Bone Spring Shale	10070'	Water/Oil/Gas
Wolfcamp	10505'	Water/Oil/Gas
Wolfcamp A	10645'	Water/Oil/Gas
Wolfcamp B	11045'	Water/Oil/Gas
Wolfcamp C	11282'	Water/Oil/Gas
Wolfcamp D	11443'	Water/Oil/Gas
Landing	11491'	Water/Oil/Gas

Section 2 Summary:

*** Deepest Expected Groundwater Depth: 40' (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 1085' and circulating cement back to surface.

3. Primary Casing Design**Primary Design:**

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' – 1085'	1085'	9-5/8"	40	J55	BTC	New	11.86	10.94	5.09
8.75"	0' – 4000'	3944'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.74	6.91	2.08
8.75"	4000' – 10794'	10625'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	2.91	5.13	2.93
6.75"	0' – 10694'	10525'	5-1/2"	20	P110-ICY	TPN	New	1.18	2.70	2.48
6.75"	10694' – 24658'	11491'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	2.47	2.58

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 10944' MD / 10775' TVD.

Wellhead:

A multi-bowl wellhead system will be utilized. The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Primary Cementing								
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	233	12.4	2.11	0	1,085	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	785	1,085	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	445	14.8	1.45	6036	10,794	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	1012	13.2	1.44	10294	24,658	25%	Production 1 Class C Tail Cement
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	565	14.8	1.45	0 – 6036'	35%	Intermediate Class C Bradenhead Squeeze Cement	

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment**Section 5 Summary:**

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 10M triple Ram BOP.

All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172

Requested Variances**4A) Offline Cementing Variance**

XOM requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XOM will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Flex Hose Variance

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

5B) 10M Annular Variance

XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

10A) Spudder Rig Variance

XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance

XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Comments
			(ppg)	(sec/qt)	(cc)	
0' – 1085'	12.25"	FW/Native	8.3 – 8.7	35-40	NC	Fresh Water or Native Water
1085' – 10794'	8.75"	BDE/OBM or FW/Brine	9.5 – 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
10794' – 24658'	6.75"	OBM	9.5 – 12.5	50-60	NC - 20	

Section 6 Summary:

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) 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.

7. Auxiliary Well Control and Monitoring Equipment**Section 7 Summary:**

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.

H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program**Section 8 Summary:**

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards**Section 9 Summary:**

The estimated bottom hole temperature of 178F to 198F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations**Section 10 Summary:**

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

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*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**



1/25/2024 11:48:06 AM

TEST REPORT

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

Fitting 1:

3.0 x 4-1/16 10K

Part number:

Description:

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

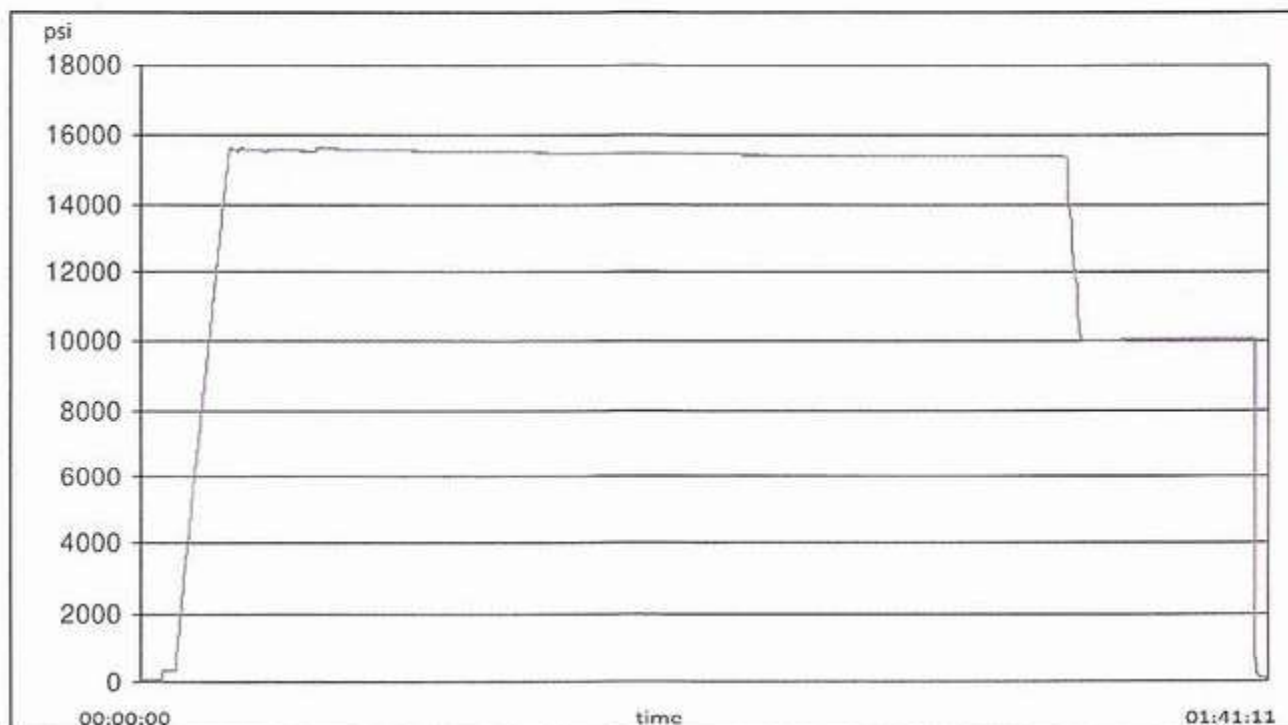
Part number:

Description:

Length: 45 feet

Length measurement result:

Test operator: Travis





H3-15/1b

1/25/2024 11:48:06 AM

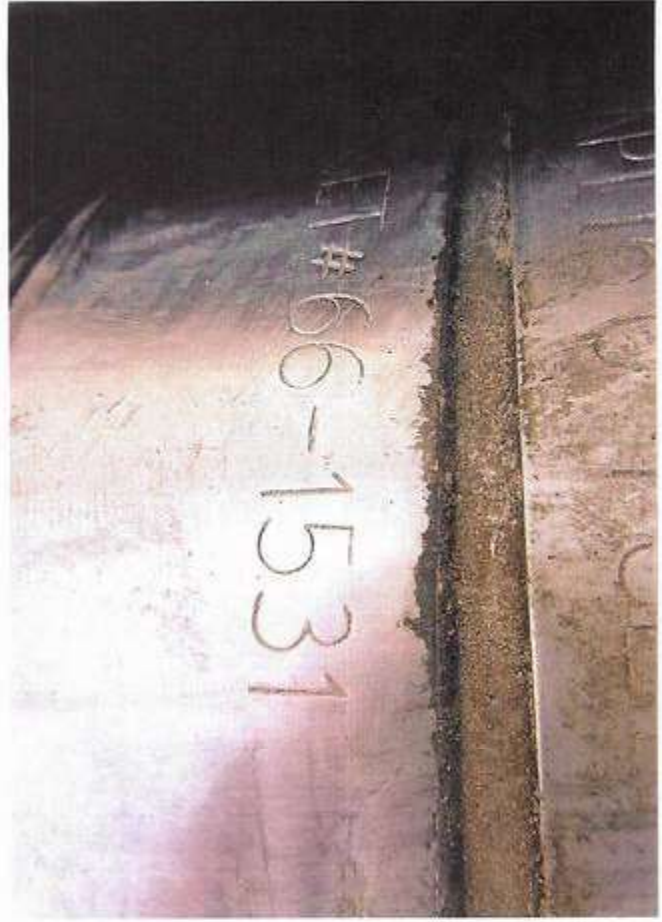
TEST REPORT

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.

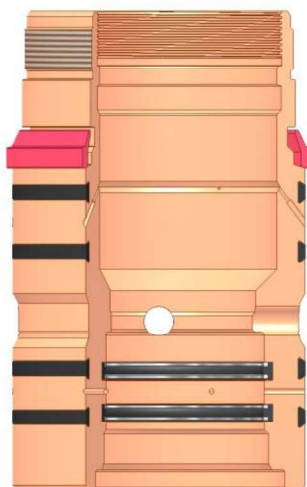
1. Cement Program

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

2. Offline Cementing Procedure

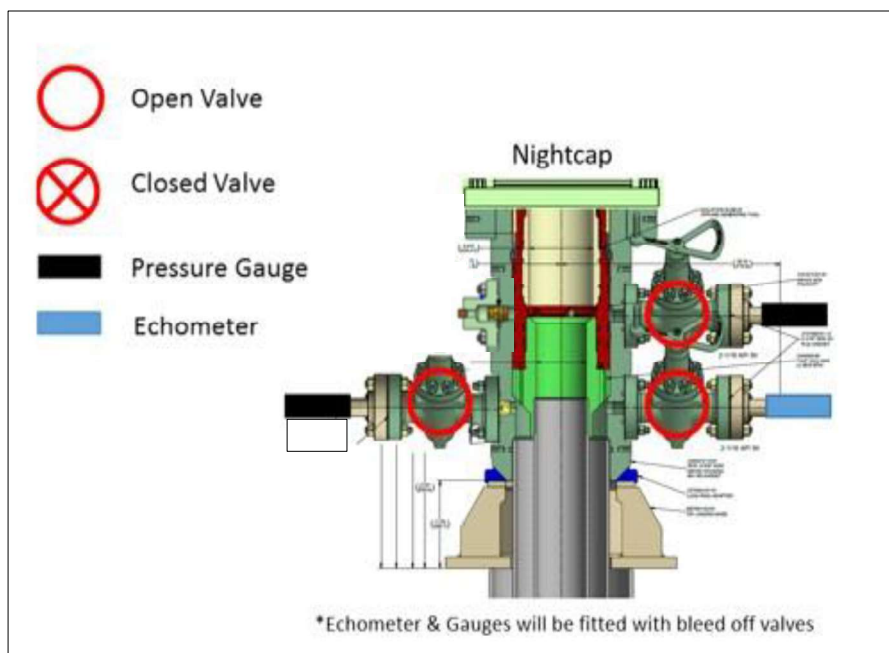
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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.



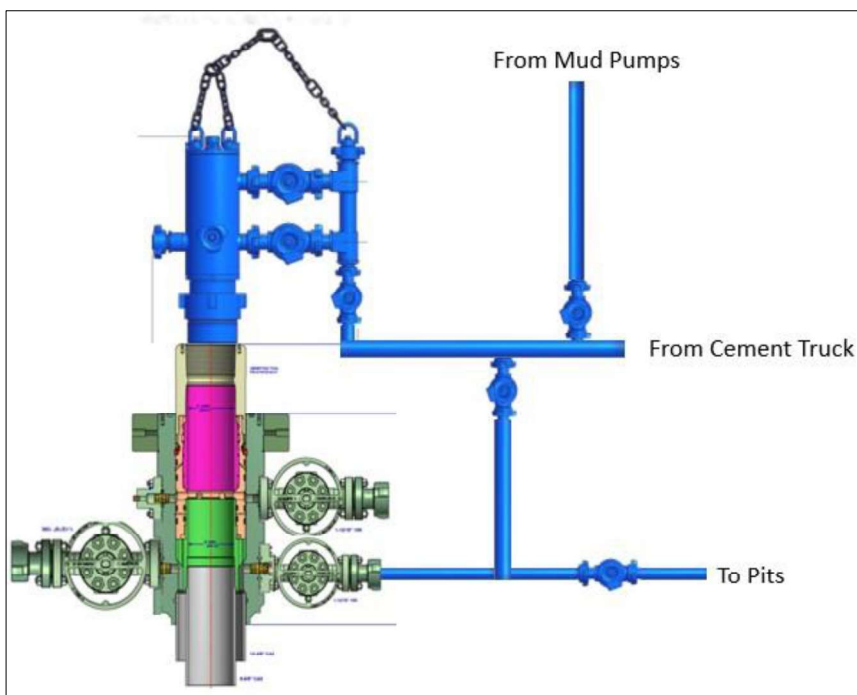
Annular packoff with both external and internal seals

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.

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

- ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



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

SUPO Data Report

07/30/2025

APD ID: 10400101709

Submission Date: 10/31/2024

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BRUSHY_DRAW_31_7_104H_ROAD_MAP_20250626051617.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

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:

618.013014.02__XTO_BRUSHY_DRAW_31_7_ACCESS_ROAD_FINAL_09_17_2024_20241029095454.pdf

New road type: LOCAL

Length: 110.12

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 gullyng, 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:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**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 Poker Lake Unit 31 - 7 BD area is accessed from the intersection of highway 285 and longhorn road, go northeast on longhorn road road for approx. 4.2 miles. Turn left (northeast) on pipeline road number 1 and go approx. 4.5 miles. Turn right (southeast) on lease road and go approx. 1.0 miles. Keep left on said lease road and go approx. 1.0 miles. Turn left (south) on lease road and go approx. 0.1 miles arriving at the proposed road and the location is to the west. Transportation Plan identifying existing roads that will be used to access the project area is included from Professional Surveyor. marked as, Topographical and Access Road Map. There are existing access roads to the proposed Poker Lake Unit 31 - 7 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by Professional Surveyor. 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:**

Brush_Draw_31_7_1mile_map_20241029132709.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Production Facilities. Existing facility pad plat for the Central Vessel Battery, as per the 43 CFR requirements have been attached under SUPO section 4. B. Flowlines. No new surface disturbance is requested. C. Gas & Oil Pipeline. No additional pipelines are required for the Poker Lake Unit 31-7 BD. D. Disposal Facilities. Produced water will be piped from location to a disposal facility as needed. E. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green such as BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment. F. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas. G. Electrical. All electrical poles and lines will be placed within existing and proposed lease roads corridors. All electrical lines will be primary 115 Kv to properly run expected production equipment. Approximately 256.21 ft. of electrical will be run from the anticipated tie-in point following existing and proposed road corridors with a request for 30 ROW construction and maintenance buffer. A plat of the proposed electrical is attached.

Production Facilities map:

618.013014.01__XTO_BRUSHY_DRAW_30_31_FED_EXISTING_CVB_FINAL_10_04_2024_20241029100930.pdf

618.013014.02__XTO_BRUSHY_DRAW_31_7_ACCESS_ROAD_FINAL_09_17_2024_20241029100935.pdf

618.013014.02__XTO_BRUSHY_DRAW_31_7_OVERHEAD_ELECTRIC_FINAL_09_17_2024_20241029100935.pdf

PL30_31_20BD_LDEQL_DB_1000_REV_1_20241029125956.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**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:** Raw Produced**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:** 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**Water source and transportation**

BRUSHY_DRAW_31_7_104H_VICINITY_MAP_20250626051741.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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

either brackish or raw produced water that is all piped from either a pipeline or a pond (32.1483028, -103.922338) 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, -103.83850**Construction Materials source location**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

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:** NMOCD Approved Commercial Disposal Facility**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:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** NMOCD Approved Commercial Disposal Facility**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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**Disposal type description:****Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose of garbage.**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.**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:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

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:

Brushy_Draw_31_7_Federal_104H_RL_20250408135541.pdf

BRUSHY_DRAW_31_7_104H_WELL_SITE_20250626051911.pdf

Comments: Multi-Well Pad.

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:****Multiple Well Pad Number:****Recontouring**

618.013014.02_XTO_BRUSHY_DRAW_31_7_PAD_A_PAD_LAYOUT_WITH_INTERIM_REC_FINAL_02_20_2025_20250408135825.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: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

Well pad proposed disturbance (acres): 11.478	Well pad interim reclamation (acres): 3.426	Well pad long term disturbance (acres): 8.052
Road proposed disturbance (acres): 0.08	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.08
Powerline proposed disturbance (acres): 0.3	Powerline interim reclamation (acres): 0.3	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 11.858	Total interim reclamation: 3.726	Total long term disturbance: 8.132

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 plains 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 plains 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 plains 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 plains 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:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**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:** Andrew**Last Name:** Mowles**Phone:** (432)999-8069**Email:** andrew.b.mowles@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 le rough enough to trap seed and snow, control erosion, and increase water infiltration.

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H

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: EXISTING 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:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

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: 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:

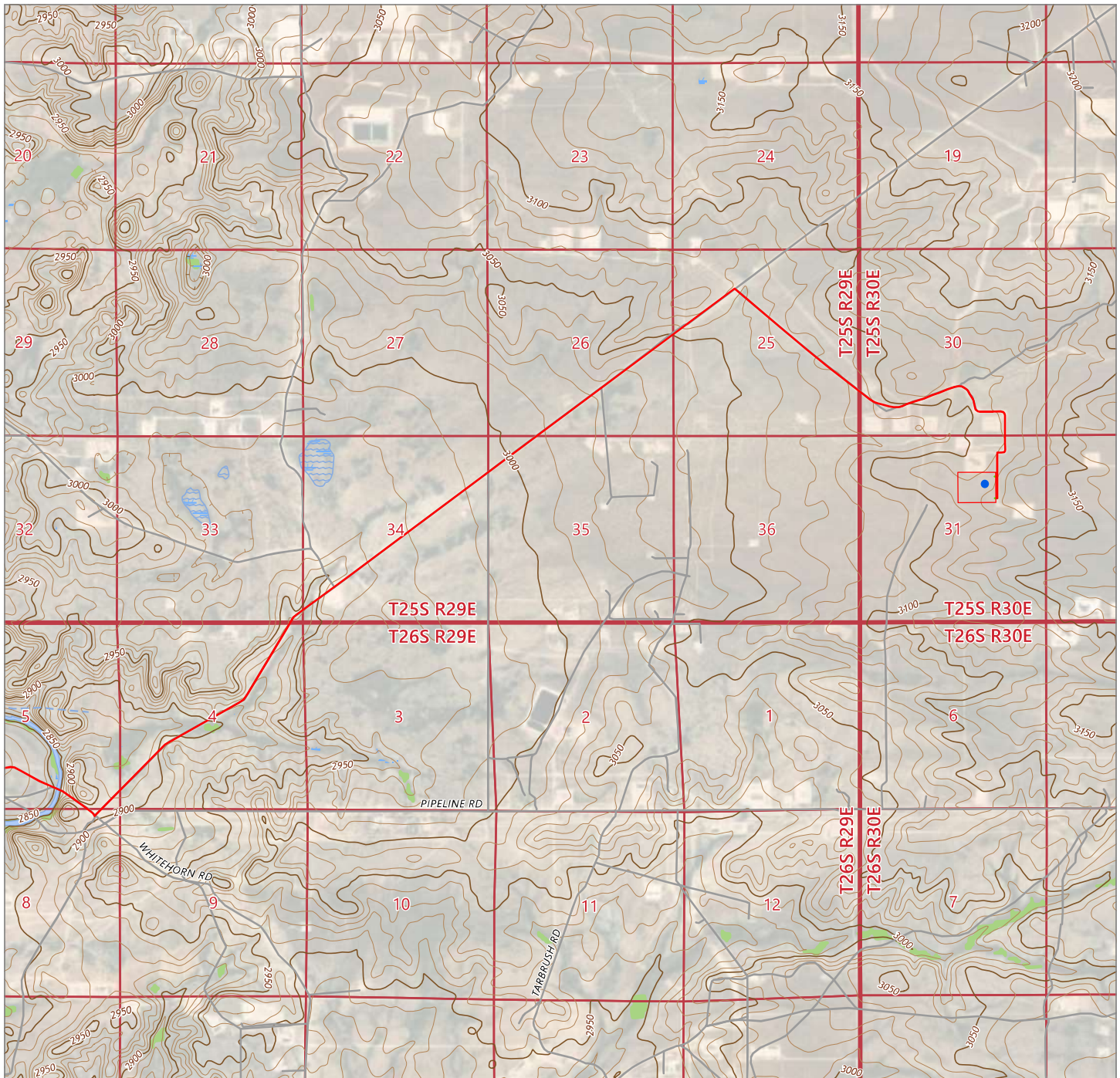
Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**Disturbance type:** WELL PAD**Describe:** CENTRAL VESSEL BATTERY**Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD 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:**

Section 12 - Other

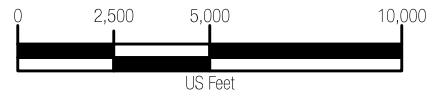
Right of Way needed? N**Use APD as ROW?****ROW Type(s):****ROW****SUPO Additional Information:** SUPO written for all wells in section/project area.**Use a previously conducted onsite?** Y**Previous Onsite information:** The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 09/11/2024.

Other SUPO

Brushy_Draw_31_7_Fed_SUPO_Updated_20250626092628.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. 4.5 MILES. TURN RIGHT (SOUTHEAST) ON LEASE ROAD AND GO APPROX. 1.0 MILES. KEEP LEFT ON SAID LEASE ROAD AND GO APPROX. 1.0 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.1 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

**LEGEND**

- BRUSHY DRAW 31-7 FEDERAL 104H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 135'



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

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**A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO PERMIAN OPERATING, LLC.
 BRUSHY DRAW 31-7 FEDERAL 104H**

LOCATED 1379 FEET FROM THE NORTH LINE AND 1753 FEET FROM THE EAST LINE OF
 SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	AI	DATE:	10/15/2024	SCALE:	1"=5,000'	PROJECT NUMBER:	618.013014.02-04
DRAWN BY:	RE	FIELD CREW:	RD	REVISION NUMBER:	1	SHEET:	3 OF 3



LINE TABLE "A"		
LINE	BEARING	LENGTH
L1	S89°37'50"W	55.50'

LINE TABLE "B"		
LINE	BEARING	LENGTH
L2	S89°37'50"W	54.62'

TOTAL LENGTH =
110.12 FEET OR 6.67 RODS

BRUSHY DRAW 31-7 PROPOSED ACCESS ROAD DESCRIPTION:
SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 110.12 FEET, 6.67 RODS, OR 0.02 MILES IN LENGTH CROSSING SECTION 31, 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 0.08 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:
NW¼ NE¼ OF SECTION 31 = 55.50 FEET = 3.36 RODS = 0.04 OF AN ACRE
SW¼ NE¼ OF SECTION 31 = 54.62 FEET = 3.31 RODS = 0.04 OF AN ACRE

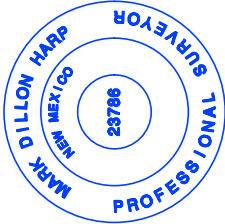
GENERAL NOTES

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 A MEMBER OF THE NEW MEXICO SURVEYORS ASSOCIATION, 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



505 Pecan Street, Ste 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)

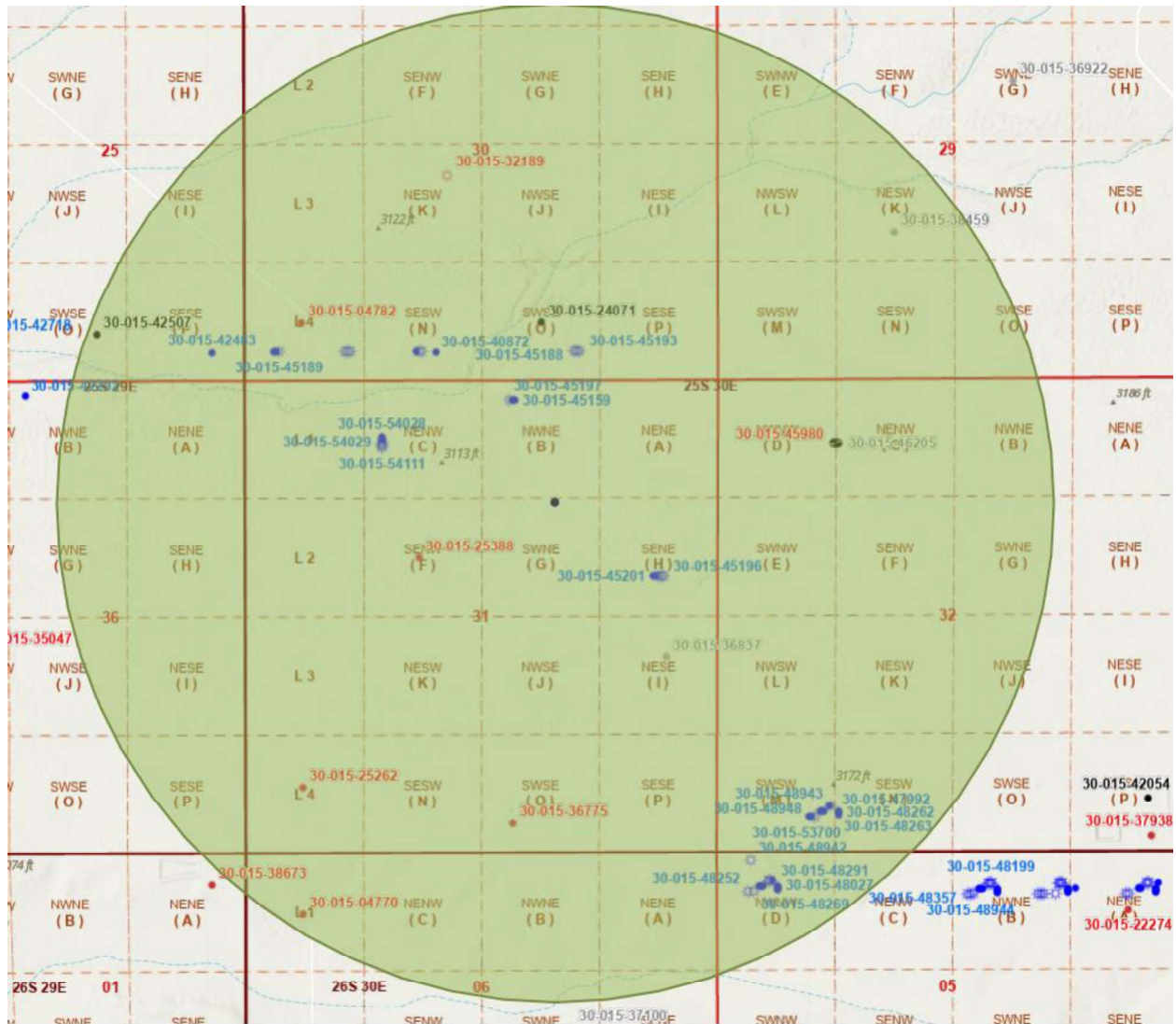
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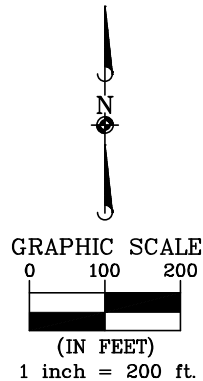
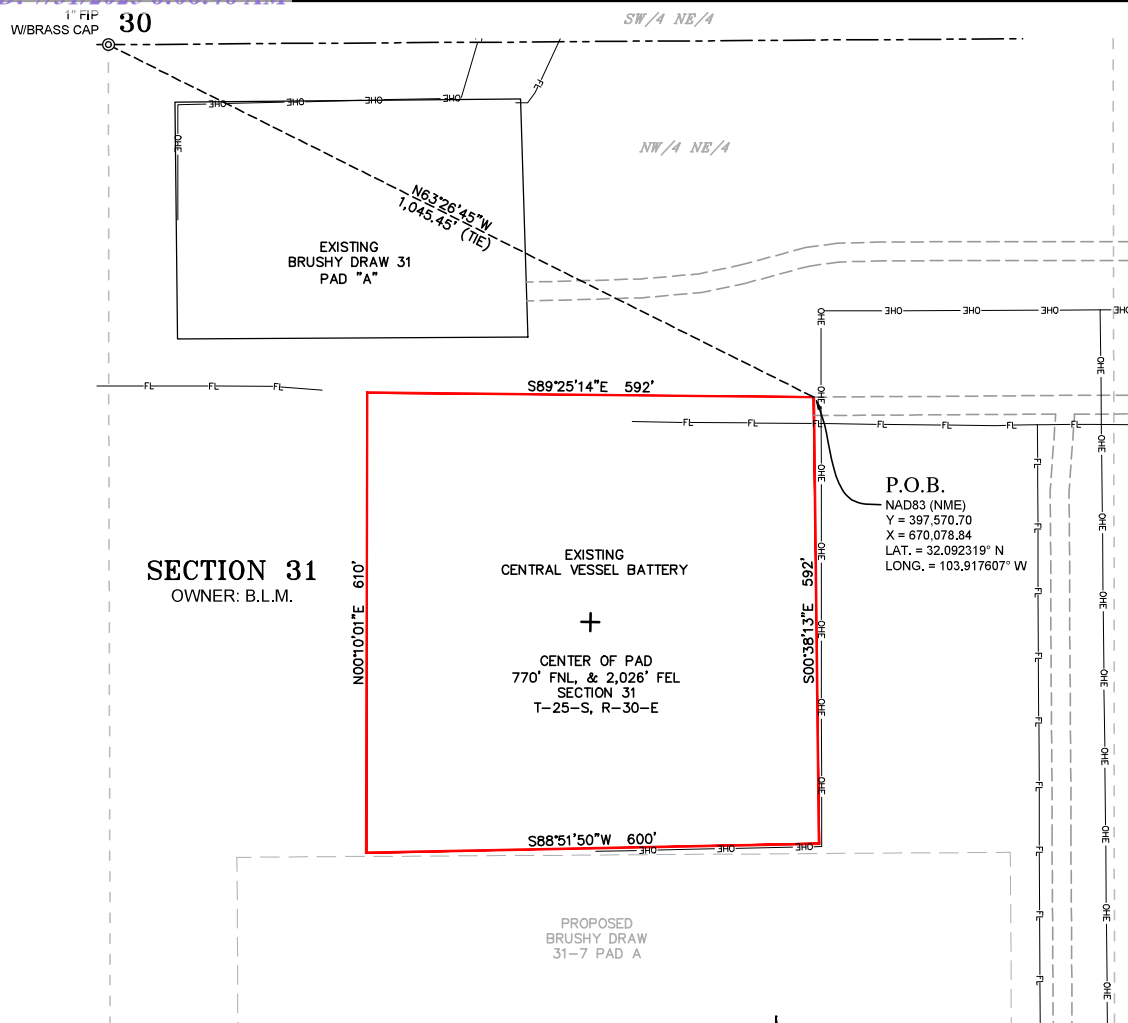
AN EXHIBIT OF:
A PROPOSED CENTERLINE OF AN ACCESS
ROAD EASEMENT FOR:
XTO ENERGY, INC.
BRUSHY DRAW 31-7

SITUATED IN
SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB DATE: 9/17/2024 SCALE: 1" = 300' PROJECT NO.: 618.013014.02 DRAWN BY: AI FIELD CREW: RD REVISION NO.: NO SHEET: 2 OF 2

1-Mile Radius Map





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



LEGEND

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

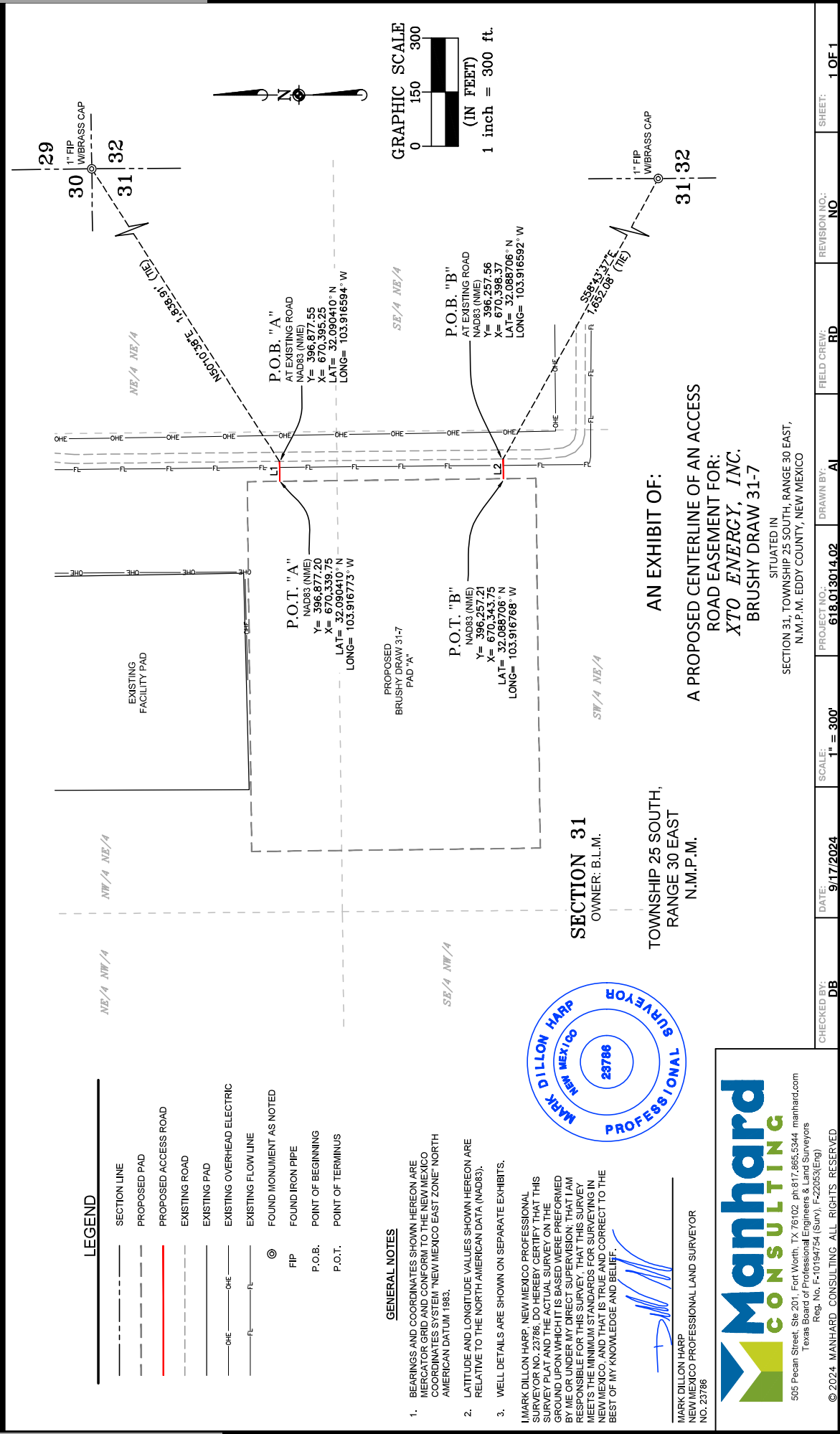
AN EXISTING PAD EXHIBIT FOR:

XTO PERMIAN OPERATING, LLC.
BRUSHY DRAW 30/31 FEDERAL CENTRAL VESSEL BATTERY
SITUATED IN THE NE/4 OF SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

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CHECKED BY: DB	DATE: 10/4/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013014.01
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1



LINE TABLE "A"		
LINE	BEARING	LENGTH
L1	S89°37'50"W	55.50'

LINE TABLE "B"		
LINE	BEARING	LENGTH
L2	S89°37'50"W	54.62'

TOTAL LENGTH =
110.12 FEET OR 6.67 RODS

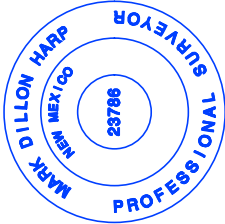
BRUSHY DRAW 31-7 PROPOSED ACCESS ROAD DESCRIPTION:
SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 110.12 FEET, 6.67 RODS, OR 0.02 MILES IN LENGTH CROSSING SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 0.08 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:
NW¼ NE¼ OF SECTION 31 = 55.50 FEET = 3.36 RODS = 0.04 OF AN ACRE
SW¼ NE¼ OF SECTION 31 = 54.62 FEET = 3.31 RODS = 0.04 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 A MEMBER OF THE NEW MEXICO SURVEYORS ASSOCIATION, 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





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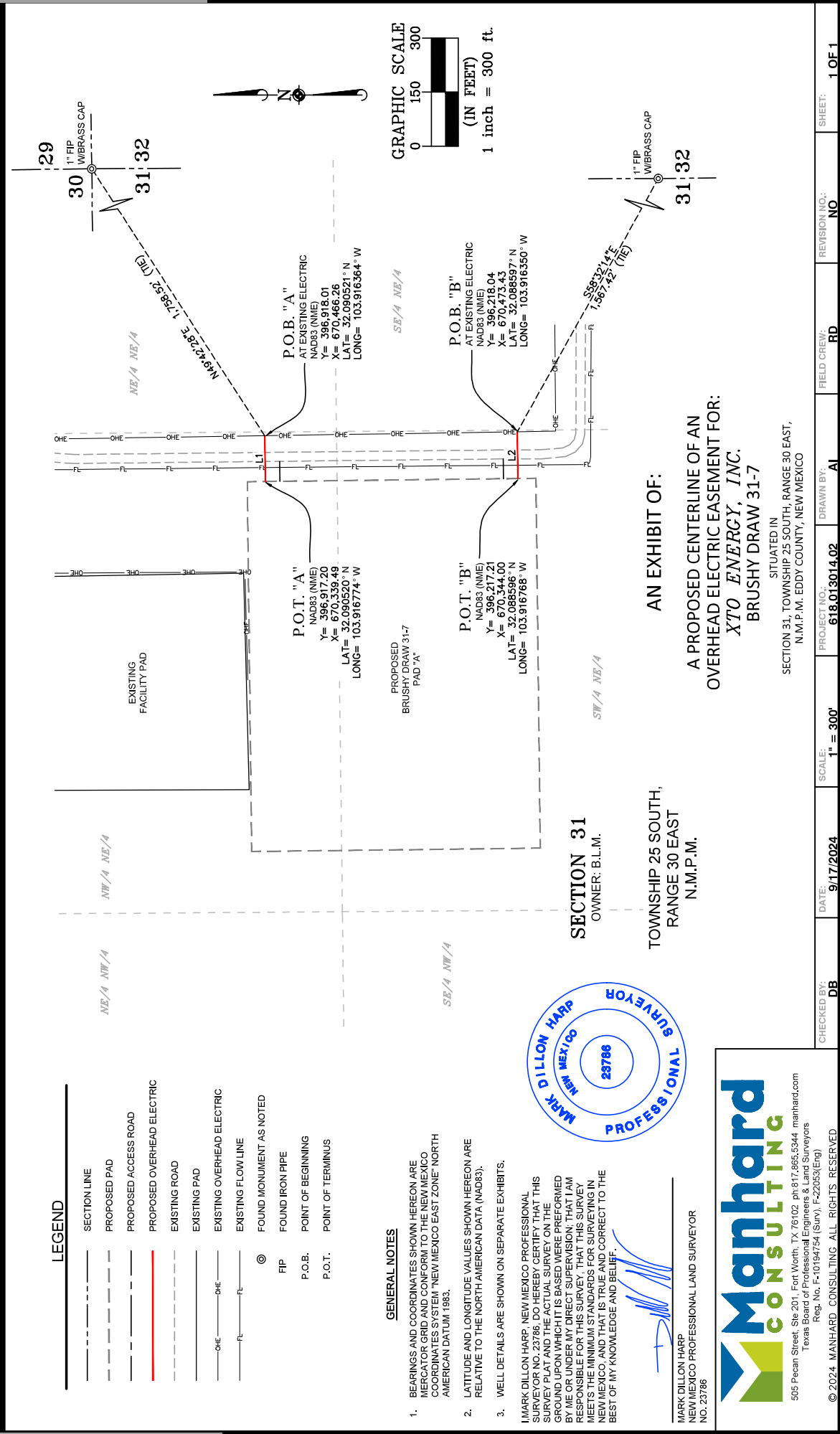
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Texas Board of Professional Engineers & Land Surveyors
Reg. No. F-10194754 (Surv), F-22053(Eng)

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AN EXHIBIT OF:
A PROPOSED CENTERLINE OF AN ACCESS
ROAD EASEMENT FOR:
XTO ENERGY, INC.
BRUSHY DRAW 31-7

SITUATED IN
SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE:	SCALE:	PROJECT NO.:	DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET:
DB	9/17/2024	1" = 300'	618.013014.02	AI	RD	NO	2 OF 2



LINE TABLE "A"		
LINE	BEARING	LENGTH
L1	S89°37'50"W	126.78'

LINE TABLE "B"		
LINE	BEARING	LENGTH
L2	S89°37'50"W	129.43'

TOTAL LENGTH =
256.21 FEET OR 15.53 RODS

BRUSHY DRAW 31-7 PROPOSED OVERHEAD ELECTRIC DESCRIPTION:
SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 256.21 FEET, 15.53 RODS,
OR 0.05 MILES IN LENGTH CROSSING SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 25.0 FEET
RIGHT AND 25.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY
COMPRISING OF 0.30 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER
AS FOLLOWS:

NW¼ NE¼ OF SECTION 31 = 126.78 FEET = 7.68 RODS = 0.15 OF AN ACRE
SW¼ NE¼ OF SECTION 31 = 129.43 FEET = 7.85 RODS = 0.15 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
A PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO,
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





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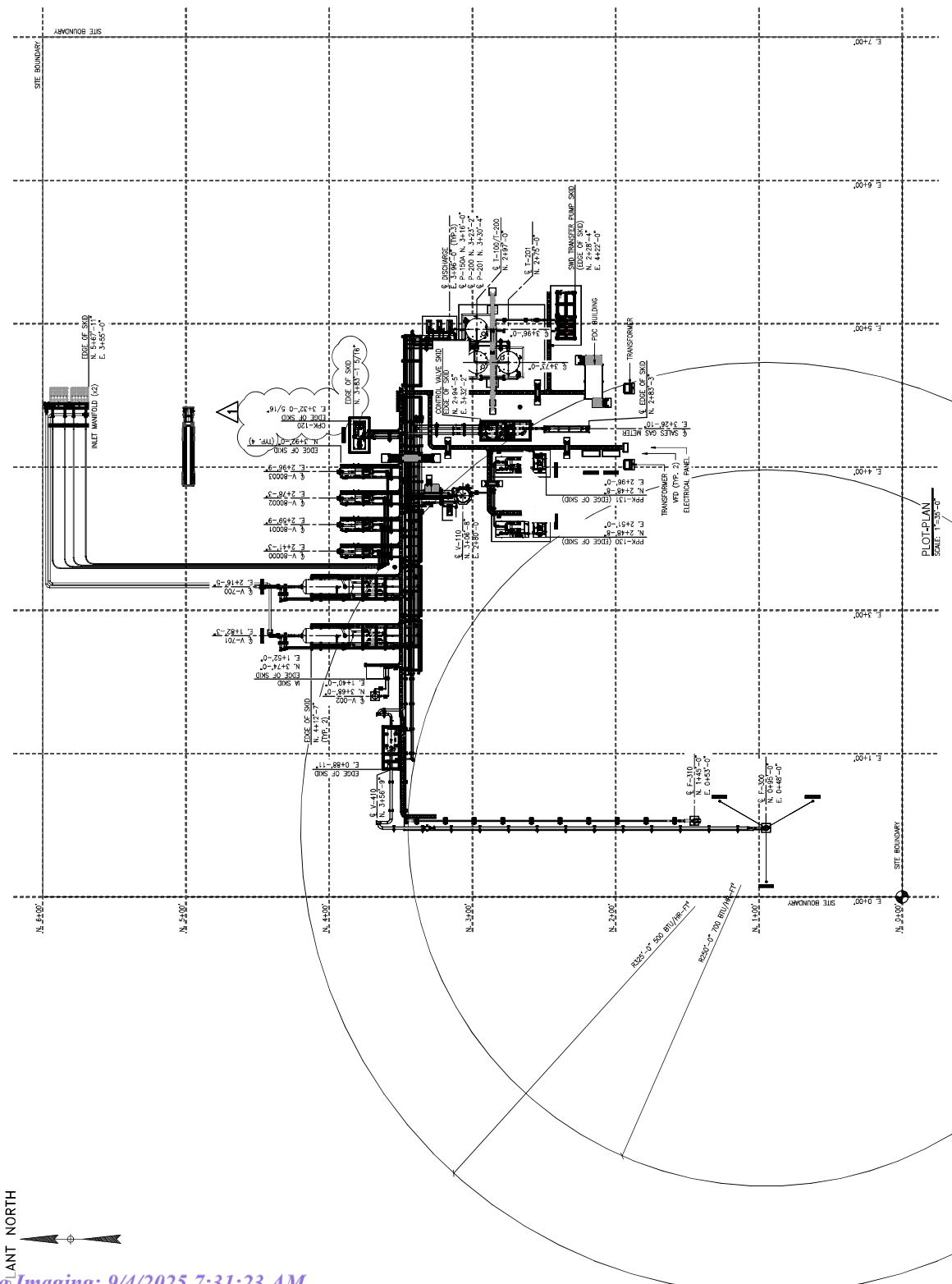
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AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN
OVERHEAD ELECTRIC EASEMENT FOR:
XTO ENERGY, INC.
BRUSHY DRAW 31-7

SITUATED IN
SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE:	SCALE:	PROJECT NO.:	DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET:
DB	9/17/2024	1" = 300'	618.013014.02	AI	RD	NO	2 OF 2

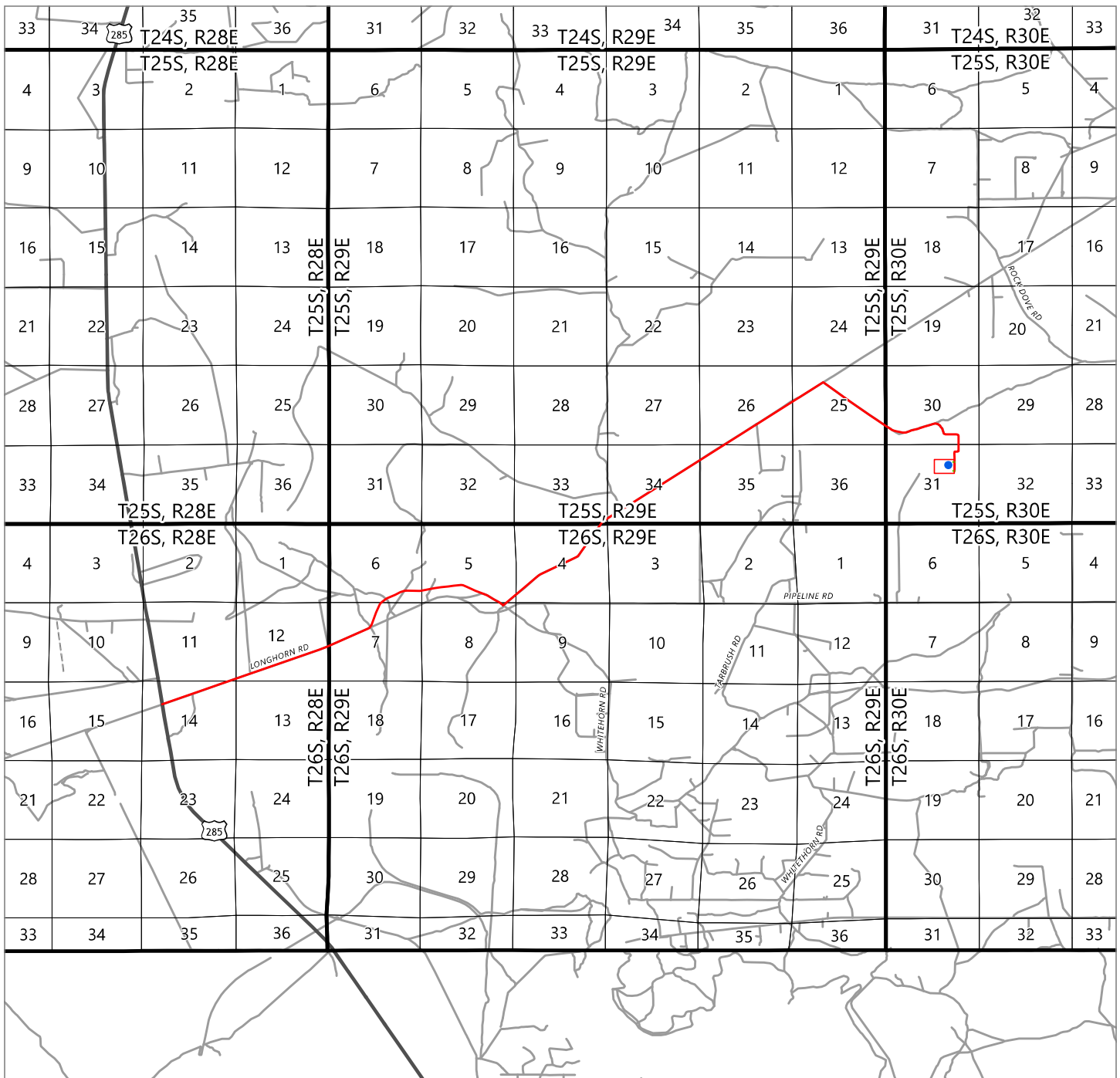


DATE	REV	DESCRIPTION	BY	APP'D	ENG
06/25/2021	1	REVISED ISSUED FOR CONSTRUCTION	CLE	CLE	BD
06/25/2021	0	ISSUED FOR CONSTRUCTION	CLE	JOB	J.G.

PLOT PLAN
DELAWARE BASIN
POKER LAKE
UNIT 30-51

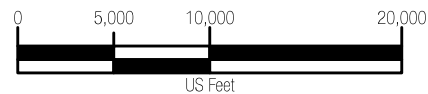
DESIGNED BY	DATE	SCALE	1"
DRWN BY	06/25/2021	PL 30 31-2080-LDEQL-DB-1000	
CHECKED BY			
DATE			

DWG NUMBER	TITLE	NOTES
	REFERENCE DRAWINGS	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. 4.5 MILES. TURN RIGHT (SOUTHEAST) ON LEASE ROAD AND GO APPROX. 1.0 MILES. KEEP LEFT ON SAID LEASE ROAD AND GO APPROX. 1.0 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.1 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE WEST.



LEGEND

- BRUSHY DRAW 31-7 FEDERAL 104H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 135'



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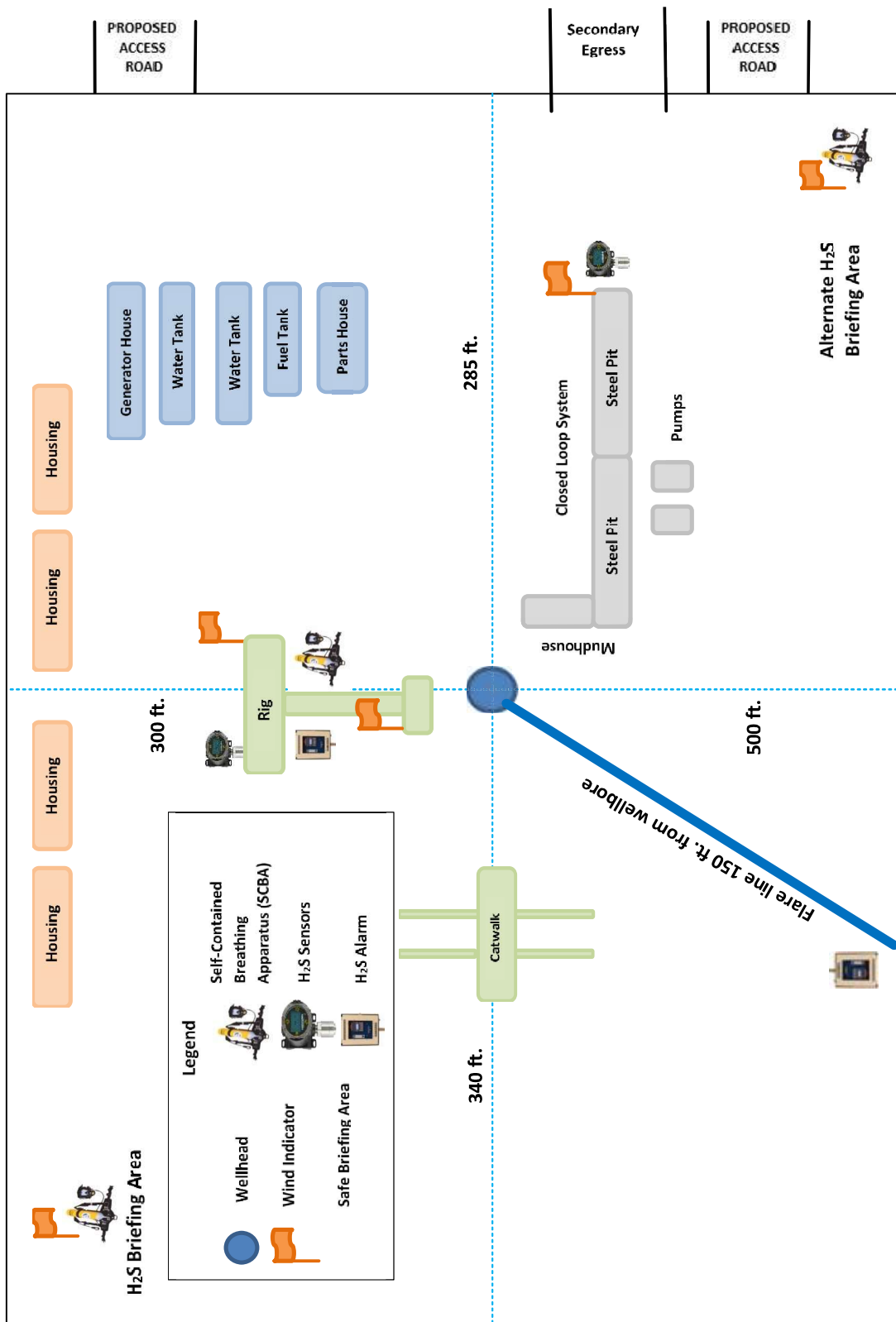
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A VICINITY MAP FOR XTO PERMIAN OPERATING, LLC. BRUSHY DRAW 31-7 FEDERAL 104H

LOCATED 1379 FEET FROM THE NORTH LINE AND 1753 FEET FROM THE EAST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

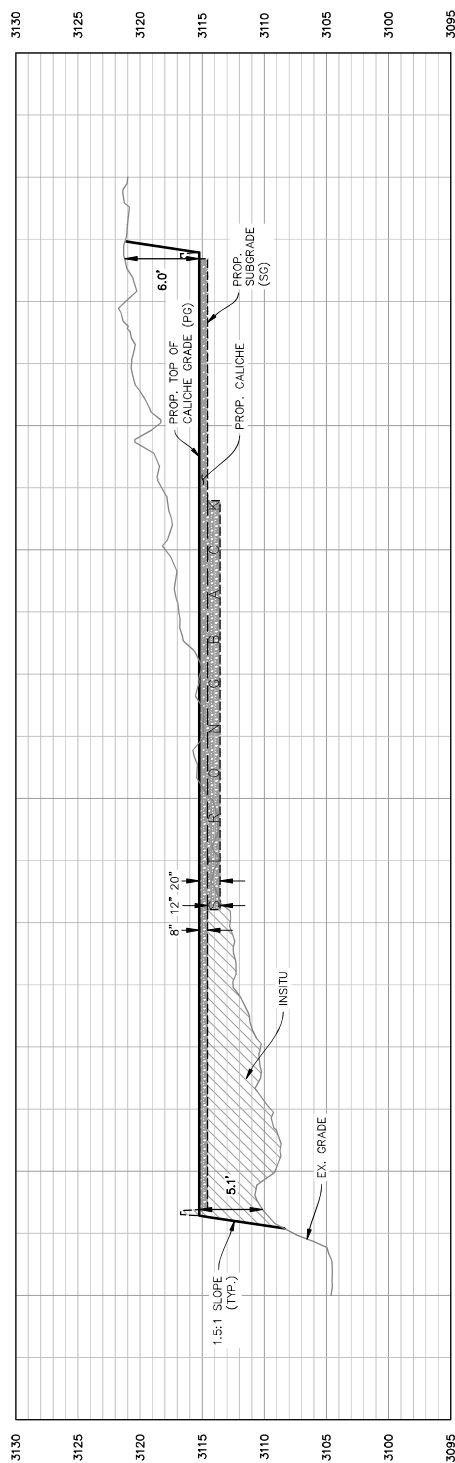
CHECKED BY:	AI	DATE:	10/15/2024	SCALE:	1"=10,000'	PROJECT NUMBER:	618.013014.02-04
DRAWN BY:	RE	FIELD CREW:	RD	REVISION NUMBER:	1	SHEET:	2 OF 3

Rig Plat Layout

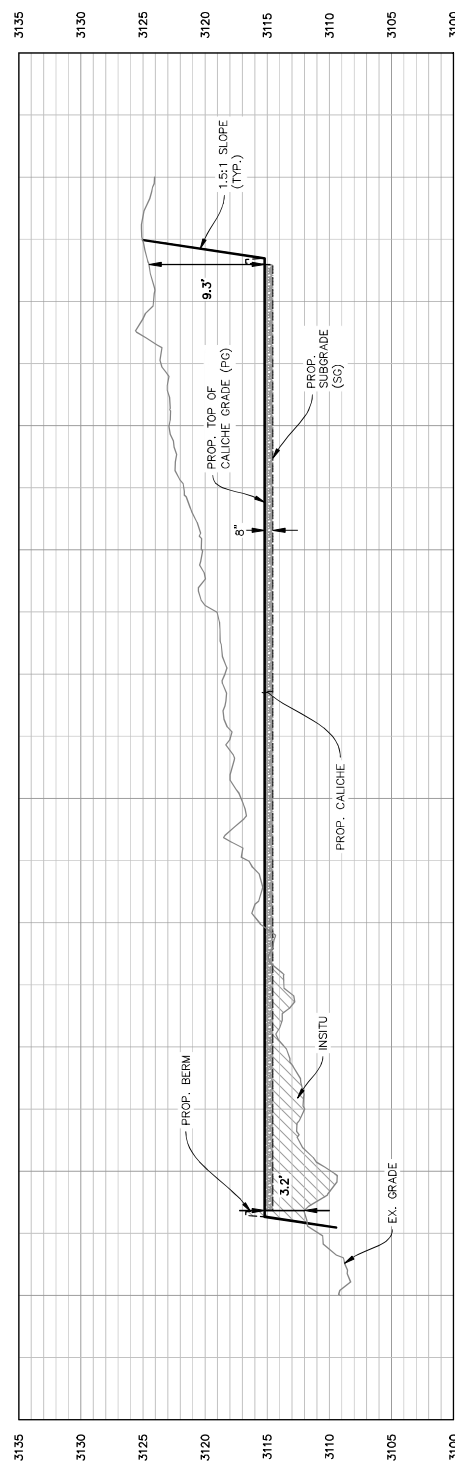


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AL	RELEASE DATE:	SCALE:	CODE:
06/24/2025	00'	538.013014.02	06/24/2025



CROSS SECTION "A"
H: 1" = 100'
V: 1" = 10'



CROSS SECTION "B"
H: 1" = 100'
V: 1" = 10'

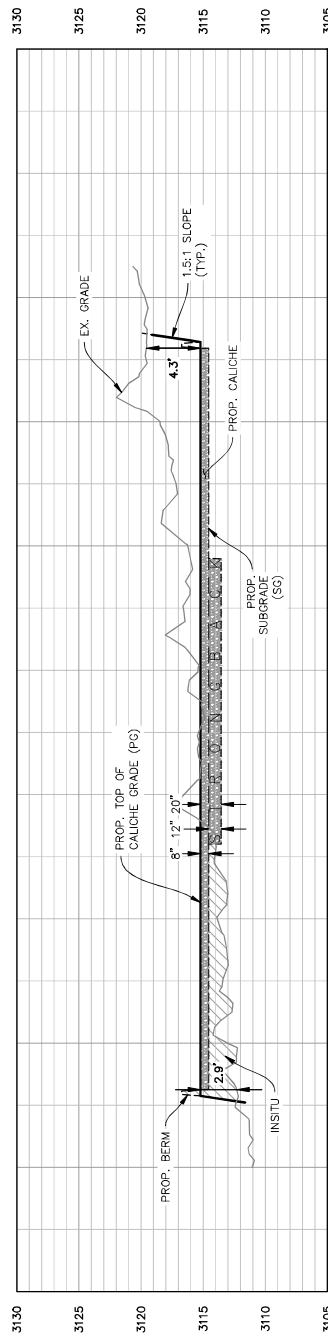
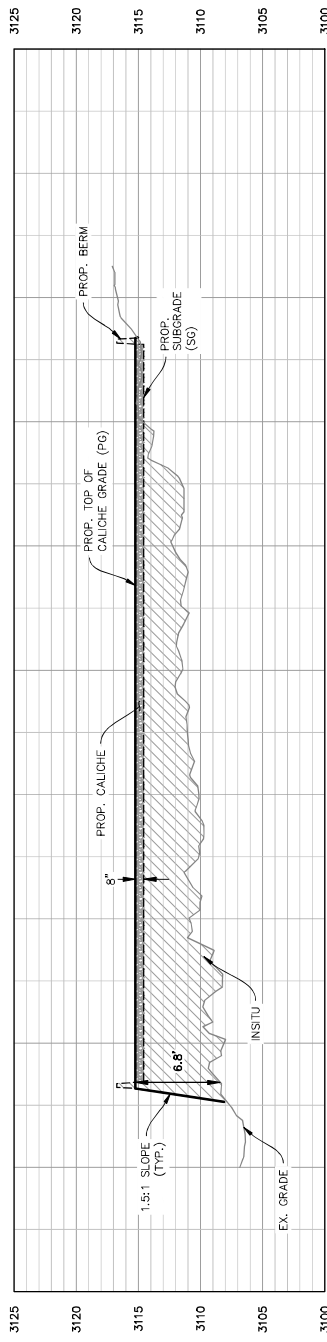
PAD CUT AND FILL EXHIBIT BRUSHY DRAW UNIT 31-7 PAD A	
XTO PERMIAN OPERATING, LLC.	
SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO	
DRAWN BY: AI	RELEASE DATE: 06/24/2025
SCALE: 1" = 100'	CODE: 648.013014.02



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Civil Engineers | Surveyors | Water Resource Engineers | Water & Waste Water Engineers
Construction Managers | Environmental Scientists | Landscape Architects | Planners

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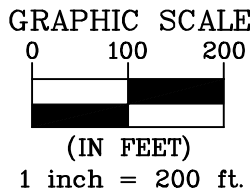


SECTION 31

OWNER: B.L.M.



TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.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. 4.5 MILES. TURN RIGHT (SOUTHEAST) ON LEASE ROAD AND GO APPROX. 1.0 MILES. KEEP LEFT ON SAID LEASE ROAD AND GO APPROX. 1.0 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.1 MILES. ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

GENERAL NOTES

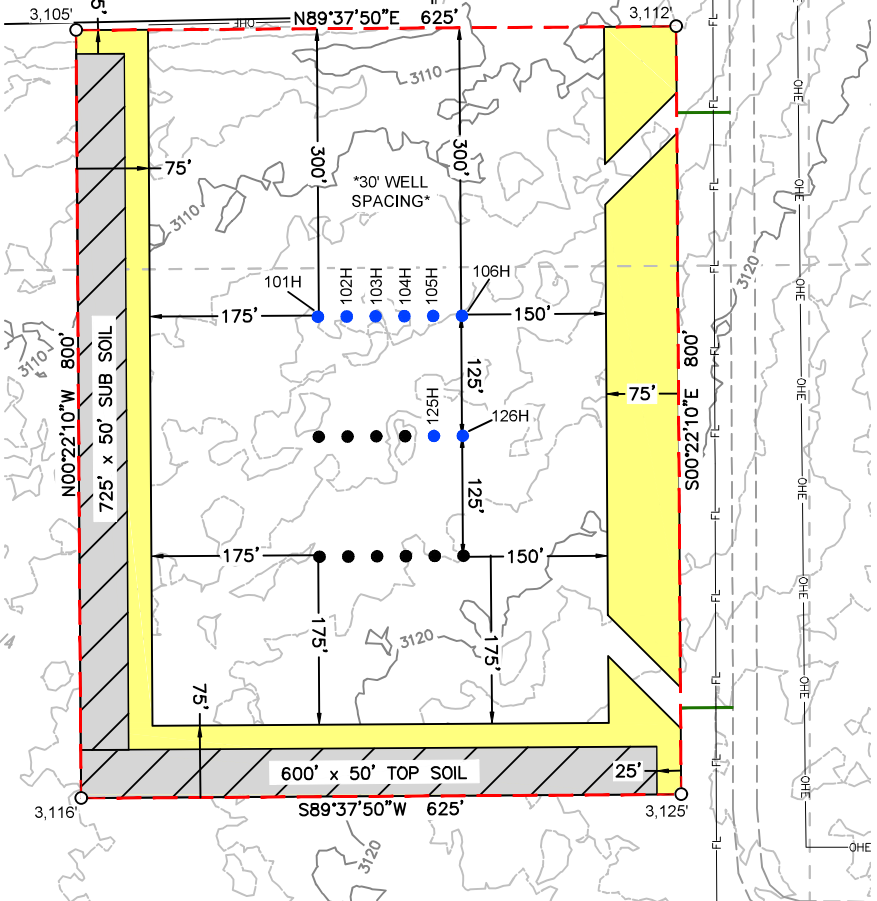
1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).

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



EXISTING BRUSHY DRAW 31
FACILITY PAD

**ACREAGE INFORMATION**

INITIAL DISTURBED AREA	= 11.478 ACRES
INTERIM RECLAMATION	= 3.426 ACRES
TOTAL PAD ACREAGE AFTER IR	= 8.052 ACRES

LEGEND

	SECTION LINE
	EXISTING ROAD
	PROPOSED PAD
	TBD WELL LOCATION
	PERMITTED WELL LOCATION
	PROPOSED ACCESS ROAD
	EXISTING OVERHEAD ELECTRIC
	EXISTING FLOWLINE
	EXISTING PAD
	INTERIM RECLAMATION AREA

A PAD LAYOUT FOR:

XTO PERMIAN OPERATING, LLC.
BRUSHY DRAW 31-7 PROPOSED PAD "A"

PAD CENTER IS LOCATED 1,479 FEET FROM THE NORTH LINE AND 1,980 FEET FROM THE EAST LINE OF SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 10/07/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013014.02
DRAWN BY: AI	FIELD CREW: RD	REVISION NO.: NO	SHEET: 1 OF 1



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Poker Lake Unit 31 - 7 Brushy Draw
S31-T25S-R30E

Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
Brushy Draw 31-7 Federal 101H	1379	FNL	1843	FEL
Brushy Draw 31-7 Federal 102H	1379	FNL	1813	FEL
Brushy Draw 31-7 Federal 103H	1379	FNL	1783	FEL
Brushy Draw 31-7 Federal 104H	1379	FNL	1753	FEL
Brushy Draw 31-7 Federal 105H	1379	FNL	1723	FEL
Brushy Draw 31-7 Federal 106H	1379	FNL	1693	FEL

Well Site Locations

The results of the Poker Lake Unit 31 - 7 Brushy Draw Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 31 - 7 Brushy Draw' area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

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

Surface Use Plan

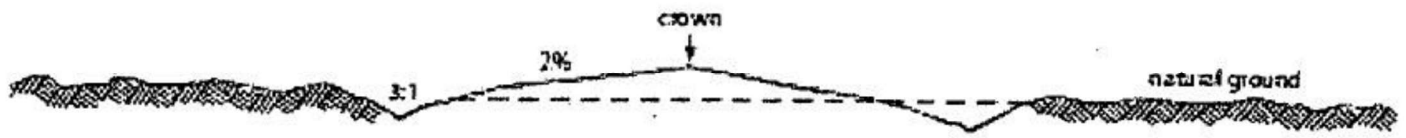
1. Existing Roads

- A. The Poker Lake Unit 31 - 7 BD area is accessed 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. 4.5 miles. Turn right (southeast) on lease road and go approx. 1.0 miles. Keep left on said lease road and go approx. 1.0 miles. Turn left (south) on lease road and go approx. 0.1 miles arriving at the proposed road and the location is to the west. Transportation Plan identifying existing roads that will be used to access the project area is included from Professional Surveyor. marked as, 'Topographical and Access Road Map.'
- B. There are existing access roads to the proposed Poker Lake Unit 31 - 7 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by Professional Surveyor. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.
- C. The project is located approximately 31 - 7 miles to the town of Loving, New Mexico.

2. New or Upgraded Access Roads

- A. **New Roads.** There is a total of approximately 110.12 feet or 0.02 miles of proposed and staked access roads in the Poker Lake Unit 31 - 7 BD lease area.
Surface Disturbance= 0.008 of an ACRE

- 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.** One lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the Topographical and Access Road Map provided by Professional Surveyor unless otherwise approved by the BLM and applied for by XTO Permian Operating, LLC.
- 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 6" rolled and compacted caliche.



Level Ground Section

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

3. Location of Existing Wells

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

4. Ancillary Facilities

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

5. Location of Proposed Production Facilities

- A. **Production Facilities.** Existing facility pad plat for the Central Vessel Battery, as per the 43 CFR requirements have been attached under SUPO section 4.
- B. **Flowlines.** No new surface disturbance is requested.
- C. **Gas & Oil Pipeline.** No additional pipelines are required for the Poker Lake Unit 31-7 BD.
- D. **Disposal Facilities.** Produced water will be piped from location to a disposal facility as needed.
- E. **Aboveground Structures.** All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' such as BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment.
- F. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- G. **Electrical.** All electrical poles and lines will be placed within existing and proposed lease roads corridors. All electrical lines will be primary 115 Kv volt to properly run expected production equipment. Approximately 256.21 ft of electrical will be run from the anticipated tie-in point following existing and proposed road corridors with a request for 30' ROW construction and maintenance buffer. A plat of the proposed electrical is attached.

6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. 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 or raw produced water that is all piped from either a pipeline or a pond (32.1483028, -103.922338) 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 ~1.5bbbls 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.

7. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur 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 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations: 32.09194, -103.83850

8. Methods for Handling Waste

- **Cuttings.** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids.** These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- **Produced Fluids.** Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage.** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris.** Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
 - i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
 - ii. XTO Permian Operating, LLC. and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, about any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
 - iii. No hazardous substances or wastes will be stored on the location after completion of the well.
 - iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
 - v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

9. Well Site Layout

- A. **Rig Plat Diagrams:** One pads in the Poker Lake Unit 31 - 7 Brushy Draw lease. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:

1. Pad A is a 24-well pad expected to be 800'x625'.

Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

- B. **V-Door Orientation:** West agreed upon with Kendra Davis, BLM Natural Resource Specialist, present at on-site inspection.
- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

10. Plans for Surface Reclamation:

XTO Permian Operating, LLC. 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 Permian Operating, LLC. 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 gulying, 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 in order to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. Surface Ownership

- Within the Poker Lake Unit 31 - 7 Brushy Draw project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- The surface is multiple use with the primary uses of the region for grazing and to produce oil and gas.

12. Other Information

Changes from Notice of Staking / Onsite 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 Kendra Davis, Bureau of Land Management Natural Resource Specialist in attendance.
- **Cultural Resources – Archaeology**: A cultural Survey will be done on the mentioned project area.

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 plains 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.

Operator's Representatives:

The XTO Permian Operating, LLC. representatives for ensuring compliance of the surface use plan are listed below:

Andrew Mowles
Commercial & Land Advisor – New Mexico Delaware
XTO Energy, Incorporated
6401 Holiday Hill Road Midland, Texas 79707
andrew.b.mowles@exxonmobil.com Phone: (432) 999-8069

Onsite: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 09/11/2024.



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

PWD Data Report

07/30/2025

APD ID: 10400101709

Submission Date: 10/31/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

Well Type: CONVENTIONAL GAS 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:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**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:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**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: BRUSHY DRAW 31-7 FEDERAL

Well Number: 104H

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

07/30/2025

APD ID: 10400101709**Submission Date:** 10/31/2024**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** BRUSHY DRAW 31-7 FEDERAL**Well Number:** 104H**Well Type:** CONVENTIONAL GAS 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: BRUSHY DRAW 31-7
FEDERAL**Well Location:** T25S / R30E / SEC 31 /
SWNE / 32.089831 / -103.917692**County or Parish/State:** EDDY /
NM**Well Number:** 104H**Type of Well:** CONVENTIONAL GAS
WELL**Allottee or Tribe Name:****Lease Number:** NMNM102033**Unit or CA Name:****Unit or CA Number:**
NMNM144140**US Well Number:****Operator:** XTO PERMIAN OPERATING
LLC**Notice of Intent****Sundry ID:** 2866102**Type of Submission:** Notice of Intent**Type of Action:** APD Change**Date Sundry Submitted:** 07/30/2025**Time Sundry Submitted:** 10:08**Date proposed operation will begin:** 07/30/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to change the name of this well from "BRUSHY DRAW 31-7 FEDERAL 104H" to "BRUSHY DRAW 31-7 FED COM 104H". C102 reflecting the newly proposed name is attached. The APD ID for this well is 10400101709.

NOI Attachments**Procedure Description**

Brusy_Draw_31_7_Fed_Com_104H_20250730100745.pdf

Well Name: BRUSHY DRAW 31-7
FEDERAL

Well Location: T25S / R30E / SEC 31 /
SWNE / 32.089831 / -103.917692

County or Parish/State: EDDY /
NM

Well Number: 104H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMNM102033

Unit or CA Name:

Unit or CA Number:
NMNM144140

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 30, 2025 10:08 AM

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: 07/30/2025

Signature: Cody Layton Assistant Field Manager

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

5. Lease Serial No.
NMNM102033

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

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 31/T25S/R30E/NMP

7. If Unit of CA/Agreement, Name and/or No.
NMNM144140

8. Well Name and No.
BRUSHY DRAW 31-7 FEDERAL/104H

9. API Well No.

10. Field and Pool or Exploratory Area
PURPLE SAGE/WOLFCAMP (GAS)

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleate 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 perfonned 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 recompletion 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.)

XTO Permian Operating, LLC. respectfully requests approval to change the name of this well from "BRUSHY DRAW 31-7 FEDERAL 104H" to "BRUSHY DRAW 31-7 FED COM 104H".

C102 reflecting the newly proposed name is attached.

The APD ID for this well is 10400101709.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
MANOJ VENKATESH / Ph: (720) 539-1673

Regulatory Analyst

(Electronic Submission)

Signature

Date

07/30/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

Land Law Examiner

07/30/2025

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

Location of Well

0. SHL: SWNE / 1379 FNL / 1753 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.089831 / LONG: -103.917692 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 2054 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.092711 / LONG: -103.918655 (TVD: 11491 feet, MD: 12069 feet)

BHL: SWNE / 2476 FNL / 2171 FEL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057604 / LONG: -103.919014 (TVD: 11491 feet, MD: 24658 feet)

CONFIDENTIAL

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	C-102 Revised July, 09 2024 Submit Electronically via OCD permitting
	Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-57198	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code 337545	Property Name BRUSHY DRAW 31-7 FED COM	Well Number 104H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,114'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	31	25S	30E		1,379 FNL	1,753 FEL	32.089831	-103.917692	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	7	26S	30E		2,476 FNL	2,171 FEL	32.057604	-103.919014	EDDY

Dedicated Acres 720.00	Infill or Defining Well INFILL	Defining Well API 30-015-45188	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers.			Well Setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	30	25S	30E		180 FSL	1,931 FEL	32.094114	-103.918255	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	31	25S	30E		330 FNL	2,054 FEL	32.092711	-103.918655	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	7	26S	30E		2,326 FNL	2,171 FEL	32.058016	-103.919014	EDDY

Unitized Area or Area of Interest NMNM-144140	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Elevation 3,114'
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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.

Samantha Weis 7/30/2025
Signature Date

Samantha Weis
Printed Name
samantha.r.bartnik@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]
Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 **6/23/2025**
Certificate Number Date of Survey

DN

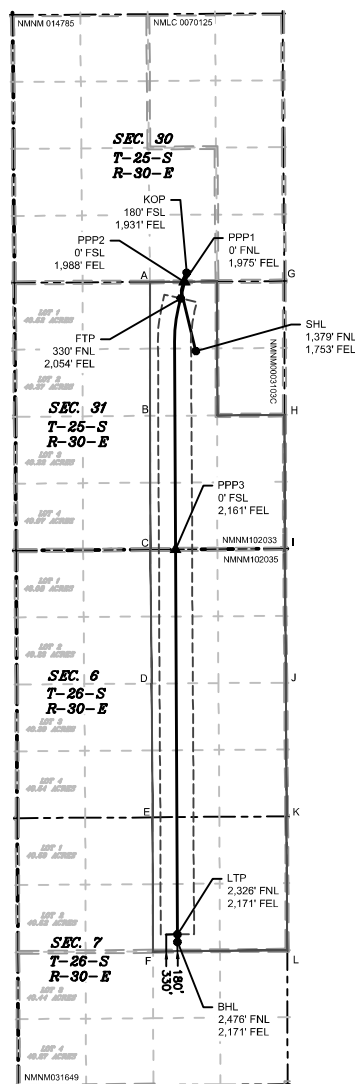
618.013014.02-04

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 areage in a red box, clearly show the well surface location and bottom hole location, if it is 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 or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors 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 accepted.



LEGEND

	SECTION LINE		330' BUFFER		PPP
	TOWNSHIP LINE		MINERAL LEASE		WELL
	DEDICATED ACREAGE		WELL BORE		

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL	670,056.1	396,665.4	32.089831	-103.917692	628,871.1	396,607.2	32.089706	-103.917209
KOP	669,875.7	398,223.0	32.094114	-103.918255	628,690.8	396,164.8	32.093989	-103.917772
FTP	669,753.9	397,712.0	32.092711	-103.918655	628,569.0	397,653.8	32.092586	-103.918171
LTP	669,691.2	385,090.3	32.058016	-103.919014	628,505.9	385,032.5	32.057891	-103.918532
BHL	669,691.7	384,940.3	32.057604	-103.919014	628,506.4	384,882.5	32.057478	-103.918532
PPP 1	669,819.1	398,042.4	32.093619	-103.918440	628,634.2	397,984.2	32.093494	-103.917957
PPP 2	669,832.8	398,042.5	32.093619	-103.918396	628,647.8	397,984.3	32.093494	-103.917913
PPP 3	669,652.8	392,728.7	32.079014	-103.919043	628,467.6	392,670.7	32.078889	-103.918561

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	669,143.7	398,038.1	627,958.7	397,979.9
B	669,148.4	395,382.1	627,963.3	395,323.9
C	669,153.0	392,724.9	627,967.9	392,666.9
D	669,175.5	390,069.6	627,990.3	390,011.7
E	669,197.9	387,411.9	628,012.6	387,354.0
F	669,204.1	384,756.6	628,018.7	384,698.7
G	671,807.6	398,055.2	630,622.6	397,997.0
H	671,810.4	395,399.9	630,625.3	395,341.8
I	671,814.0	392,745.3	630,628.8	392,687.2
J	671,835.0	390,088.9	630,649.7	390,030.9
K	671,853.2	387,433.3	630,667.8	387,375.4
L	671,863.4	384,776.9	630,678.0	384,719.1

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 490703

ACKNOWLEDGMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 490703
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☐	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
--------------------------	--

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 490703

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 490703
	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.	7/31/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/31/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/4/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/4/2025
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.	9/4/2025
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.	9/4/2025
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/4/2025