AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed: 07/30/2025 09:11 AM

APD ID:	10400101684	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:	101H

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)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM102033

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.: NMNM143156

8. Lease Name and Well No.: BRUSHY DRAW 31-7 FEDERAL 101H

2. Name of Operator: XTO PERMIAN OPERATING LLC

9. API Well No.: 30-015-57084

3a. Address: 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970

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

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

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SWNE / 1379 FNL / 1843 FEL / LAT 32.089829 / LONG -103.917983

At proposed prod. zone: LOT 2 / 2477 FNL / 344 FWL / LAT 32.057574 / LONG -103.92812

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 31/T25S/R30E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1379 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 804.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 0 feet

19. Proposed Depth: 11460 feet / 24526 feet

20. BLM/BIA Bond No. in file: FED: COB000050

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3113 feet

22. Approximate date work will start*: 10/01/2025

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

25. Signature: (Electronic Submission)

Name *(Printed/Typed)*: 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.

APPROVED WITH CONDITIONS

(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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Additional Operator Remarks

Location of Well

0. SHL: SWNE / 1379 FNL / 1843 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.089829 / LONG: -103.917983 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 1 / 330 FNL / 787 FWL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.092697 / LONG: -103.926747 (TVD: 11460 feet, MD: 12396 feet)

BHL: LOT 2 / 2477 FNL / 344 FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057574 / LONG: -103.92812 (TVD: 11460 feet, MD: 24526 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: mhughes@blm.gov

Review and Appeal Rights

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

PECOS DISTRICT

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

Approval Date: 07/28/2025

TABLE OF CONTENTS

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 REQUIRENMENTS

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

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 ACESS 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

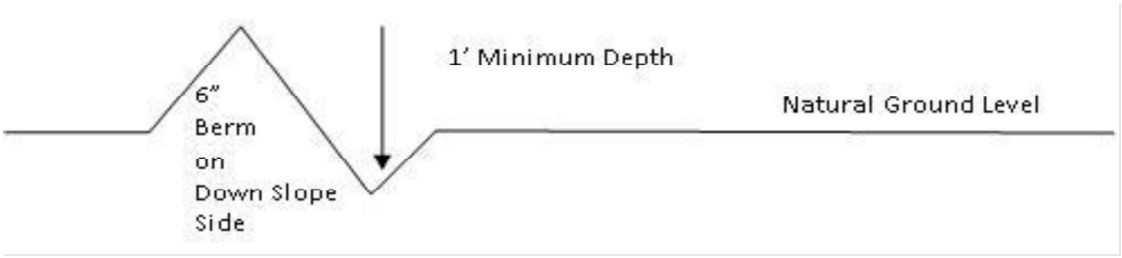
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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 foot road with 4% road slope: $\frac{400'}{4}$ + 100' = 200' 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.

Approval Date: 07/28/2025

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

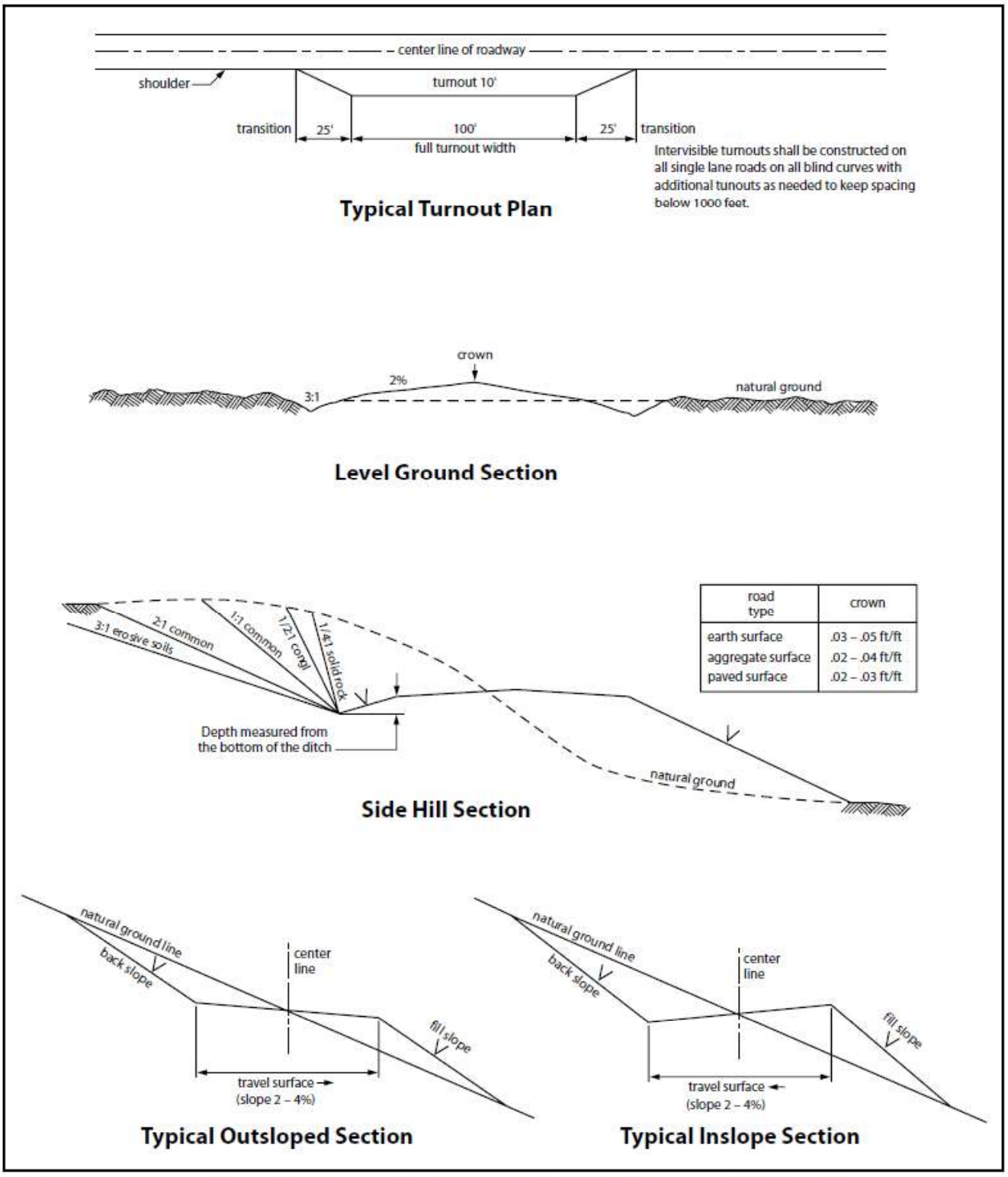


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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/permitee 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:

Species	lb/acre
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
LEASE NO.:	**NMNM102033**
LOCATION:	Sec. 31, T.25 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	**Brushy Draw 31-7 Fed 101H**
SURFACE HOLE FOOTAGE:	1379'/N & 1843'/E
BOTTOM HOLE FOOTAGE:	2477'/N & 344'/W

COA

H_2S	○ No			○ Yes
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
	Choose an option (including blank option.)			
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☑ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☑ Offline Cementing	☑ Fluid-Filled	

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 **1082** 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. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
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 at 6029'.**

b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Operator has proposed to pump down Surface X Intermediate 1 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. 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.

D. SPECIAL REQUIREMENT(S)

BOPE Break Testing Variance

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

Offline Cementing

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**; (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

AFMSS

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: SIVAPRAKASH SELVAM **Signed on:** 10/31/2024

Title: Regulatory Clerk

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX **Zip:** 77389

Phone: (720)539-1673

Email address: SIVAPRAKASH.SELVAM1@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

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

Application Data
07/30/2025

APD ID: 10400101684
Submission Date: 10/31/2024
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: BRUSHY DRAW 31-7 FEDERAL
Well Number: 101H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400101684
Tie to previous NOS? N
Submission Date: 10/31/2024
BLM Office: Carlsbad
User: SIVAPRAKASH SELVAM
Title: Regulatory Clerk
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM102033
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? YES
Federal or Indian agreement: FEDERAL
Agreement number: NMNM143156
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: 101H
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:** 101H

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:** 0 FT **Distance to lease line:** 1379 FT

Reservoir well spacing assigned acres Measurement: 804 Acres

Well plat: BRUSHY_DRAW_31_7_FEDERAL_101H_C102_FINAL_06_23_2025_20250625040544.pdf

Well work start Date: 10/01/2025 **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	1843	FEL	25S	30E	31	Aliquot SWNE	32.089829	-103.917983	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 102033	3113			Y
KOP Leg #1	257	FNL	814	FWL	25S	30E	31	Lot 1	32.092896	-103.926661	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 102033	-7631	11271	10744	Y
PPP Leg #1-1	330	FNL	787	FWL	25S	30E	31	Lot 1	32.092697	-103.926747	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 102033	-8347	12396	11460	Y

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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	2327	FNL	344	FWL	26S	30E	7	Lot 2	32.057986	-103.928121	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 102035	-8347	24376	11460	Y
BHL Leg #1	2477	FNL	344	FWL	26S	30E	7	Lot 2	32.057574	-103.92812	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 102035	-8347	24526	11460	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	Pool Code	Pool Name
30-015-	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	BRUSHY DRAW 31-7 FEDERAL	101H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,113'

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	1,843 FEL	32.089829	-103.917983	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	7	26S	30E	2	2,477 FNL	344 FWL	32.057574	-103.928120	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
803.53	INFILL	30-015-45186	N	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
	31	25S	30E	1	257 FNL	814 FWL	32.092896	-103.926661	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	31	25S	30E	1	330 FNL	787 FWL	32.092697	-103.926747	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	7	26S	30E	2	2,327 FNL	344 FWL	32.057986	-103.928121	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
NMNM143156		3,113'

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 — Certificate Number

6/23/2025 — Date of Survey

DN 618.013014.02-01

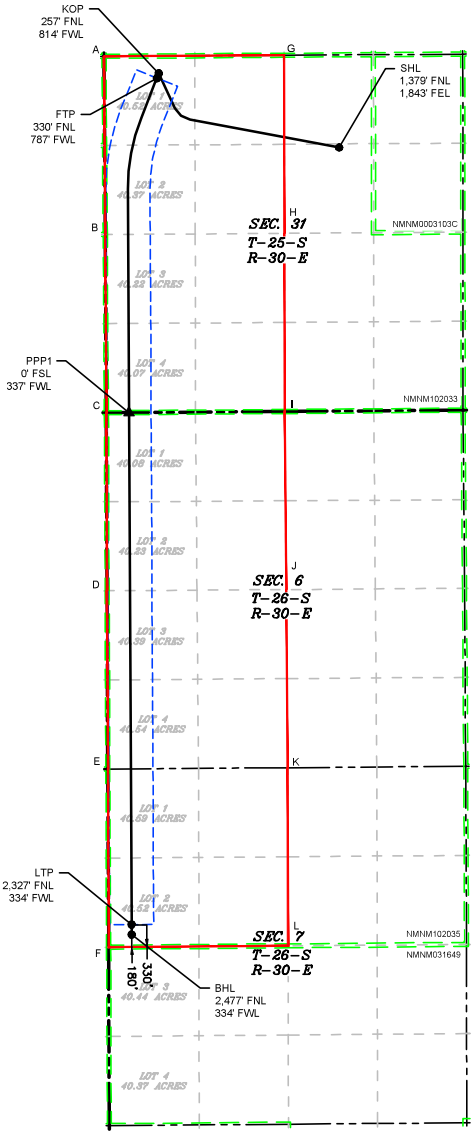
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\Wells\–01 – 101H\DWG\101H C–102.dwg

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

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	669,966.1	396,664.3	32.089829	-103.917983	628,781.1	396,606.2	32.089704	-103.917500
KOP	667,274.3	397,769.8	32.092896	-103.926661	626,089.4	397,711.6	32.092771	-103.926177
FTP	667,247.9	397,697.3	32.092697	-103.926747	626,063.0	397,639.1	32.092572	-103.926263
LTP	666,869.9	385,068.7	32.057986	-103.928121	625,684.6	385,010.9	32.057861	-103.927639
BHL	666,870.6	384,918.7	32.057574	-103.928120	625,685.3	384,860.9	32.057449	-103.927638
PPP 1	666,831.2	392,708.5	32.078987	-103.928153	625,646.1	392,650.4	32.078862	-103.927670

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	666,458.5	398,022.1	625,273.6	397,963.9
B	666,476.1	395,364.1	625,291.1	395,306.0
C	666,493.7	392,706.1	625,308.6	392,648.0
D	666,504.2	390,050.3	625,319.1	389,992.3
E	666,515.8	387,393.2	625,330.6	387,335.3
F	666,527.4	384,736.1	625,342.1	384,678.3
G	669,143.7	398,038.1	627,958.7	397,979.9
H	669,148.4	395,382.1	627,963.3	395,323.9
I	669,153.0	392,724.9	627,967.9	392,666.9
J	669,175.5	390,069.6	627,990.3	390,011.7
K	669,197.9	387,411.9	628,012.6	387,354.0
L	669,204.1	384,756.6	628,018.7	384,698.7

\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\02 – 31-7\Wells\-01 – 101H\DWG\101H C-102.dwg

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

Drilling Plan Data Report
07/30/2025

APD ID: 10400101684
Submission Date: 10/31/2024
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: BRUSHY DRAW 31-7 FEDERAL
Well Number: 101H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16106013	QUATERNARY	3113	0	0	ALLUVIUM	USEABLE WATER	N
16106017	RUSTLER	2371	742	742	ANHYDRITE, SANDSTONE	USEABLE WATER	N
16106018	SALADO	2006	1107	1107	SALT	NONE	N
16106016	BASE OF SALT	-122	3235	3235	SALT	NONE	N
16106019	DELAWARE	-423	3536	3536	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106020	BRUSHY CANYON	-2916	6029	6029	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106021	BONE SPRING	-4129	7242	7242	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106022	BONE SPRING 1ST	-5029	8142	8142	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106023	BONE SPRING 2ND	-5651	8764	8764	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106024	BONE SPRING 3RD	-6911	10024	10024	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
16106026	WOLFCAMP	-8298	11411	11411	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y
16106028		0					

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M
Rating Depth: 11460

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:** 101H

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	1082	0	1082	3113	2031	1082	J-55	40	BUTT	10.97	11.9	DRY	5.09	DRY	5.09
2	INTERMEDIATE	8.75	7.625	NEW	NON API	Y	0	11121	0	10593	3113	-7480	11121	P-110	29.7	OTHER - Tenaris Wedge 511	5.15	2.92	DRY	2.96	DRY	2.96
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24526	0	11460	3113	-8347	24526	P-110	20	OTHER - TPN/Tenaris Wedge 441	2.48	1.18	DRY	2.64	DRY	2.64

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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_20250625124328.pdf

Wedge_511__7.625__29.70_0.375_P110_ICY_20250625124329.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_20250626051429.pdf

Wedge_441__5.500__20.00_0.361_P110_ICY_20250625124528.pdf

Tapered String Spec:

Casing_and_Tapered_Spec_20250408110628.pdf

Casing Design Assumptions and Worksheet(s):

Casing_and_Tapered_Spec_20250408110720.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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		10621	24526	979	1.44	13.2	1409.76	25	Class C	NA
SURFACE	Lead		0	782	232	2.11	12.4	489.52	100	Class C	NA
SURFACE	Tail		782	1082	141	1.33	14.8	187.53	100	Class C	NA
INTERMEDIATE	Lead		0	6029	564	1.45	14.8	817.8	35	Class C	NA
INTERMEDIATE	Tail		6029	11121	476	1.45	14.8	690.2	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	1082	WATER-BASED MUD	8.3	8.7							Fresh Water or Native Water
1082	11121	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:** 101H

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.
11121	24526	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: 7449 **Anticipated Surface Pressure:** 4927

Anticipated Bottom Hole Temperature(F): 198

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

Describe:

Contingency Plans geoharzards 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:** 101H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Brushy_Draw_31_7_Federal_101H_DD_20250625125646.pdf

Brushy_Draw_31_7_Federal_101H_Plan_Views_20250625125647.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_20250409044001.pdf

NGMPForm___BD_31_7_FED___latest_20250625125157.pdf

Brushy_Draw_31_7_Federal_101H_DP_20250625125936.pdf

Other Variance request(s)?: Y

Other Variance attachment:

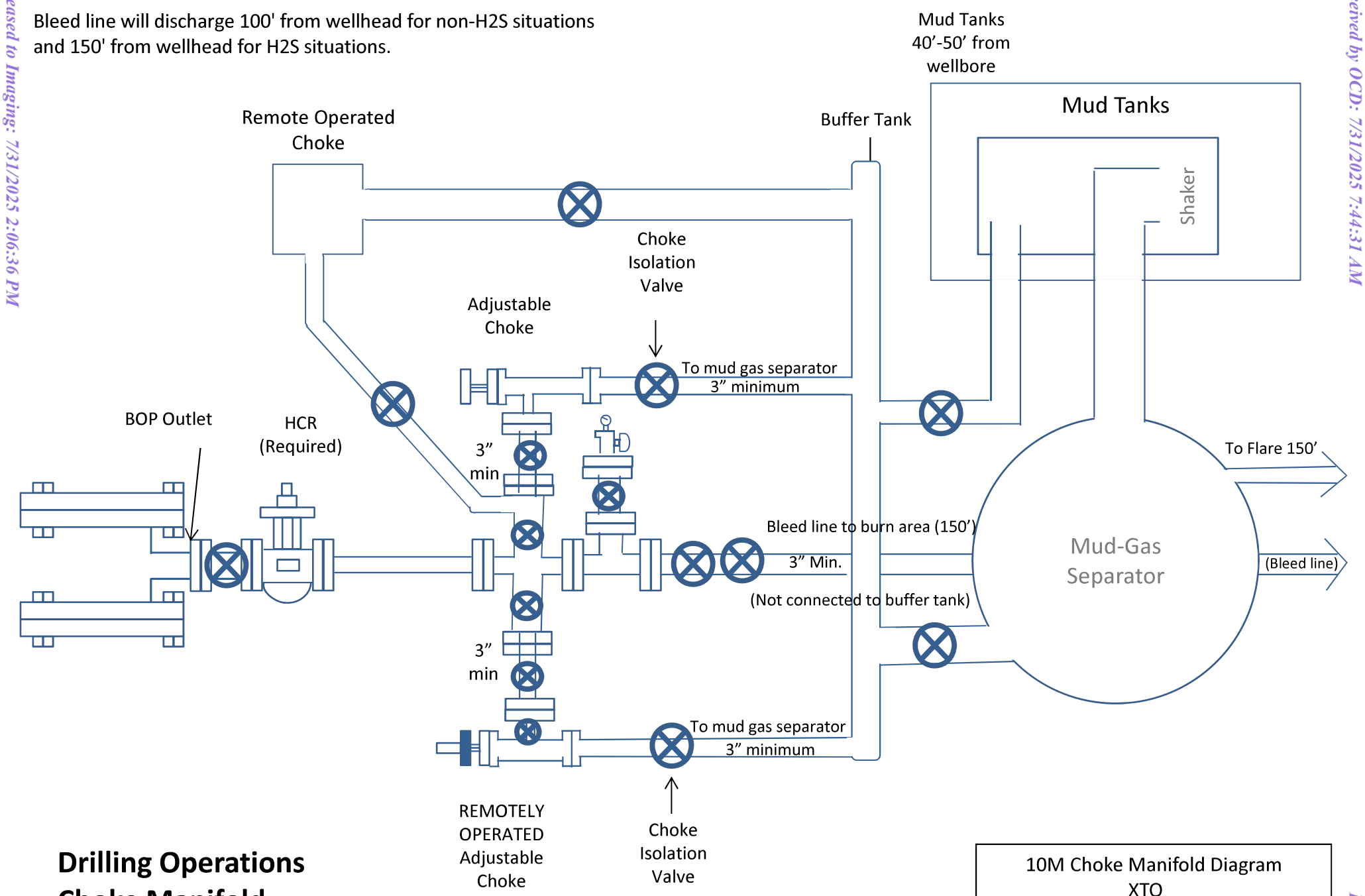
Brush_Draw_31_7__OLCV_20241029064740.pdf

Spudder_Rig_Request_20241029064809.pdf

Brush_Draw_31_7__Flex_Hose_Updated_20241029064809.pdf

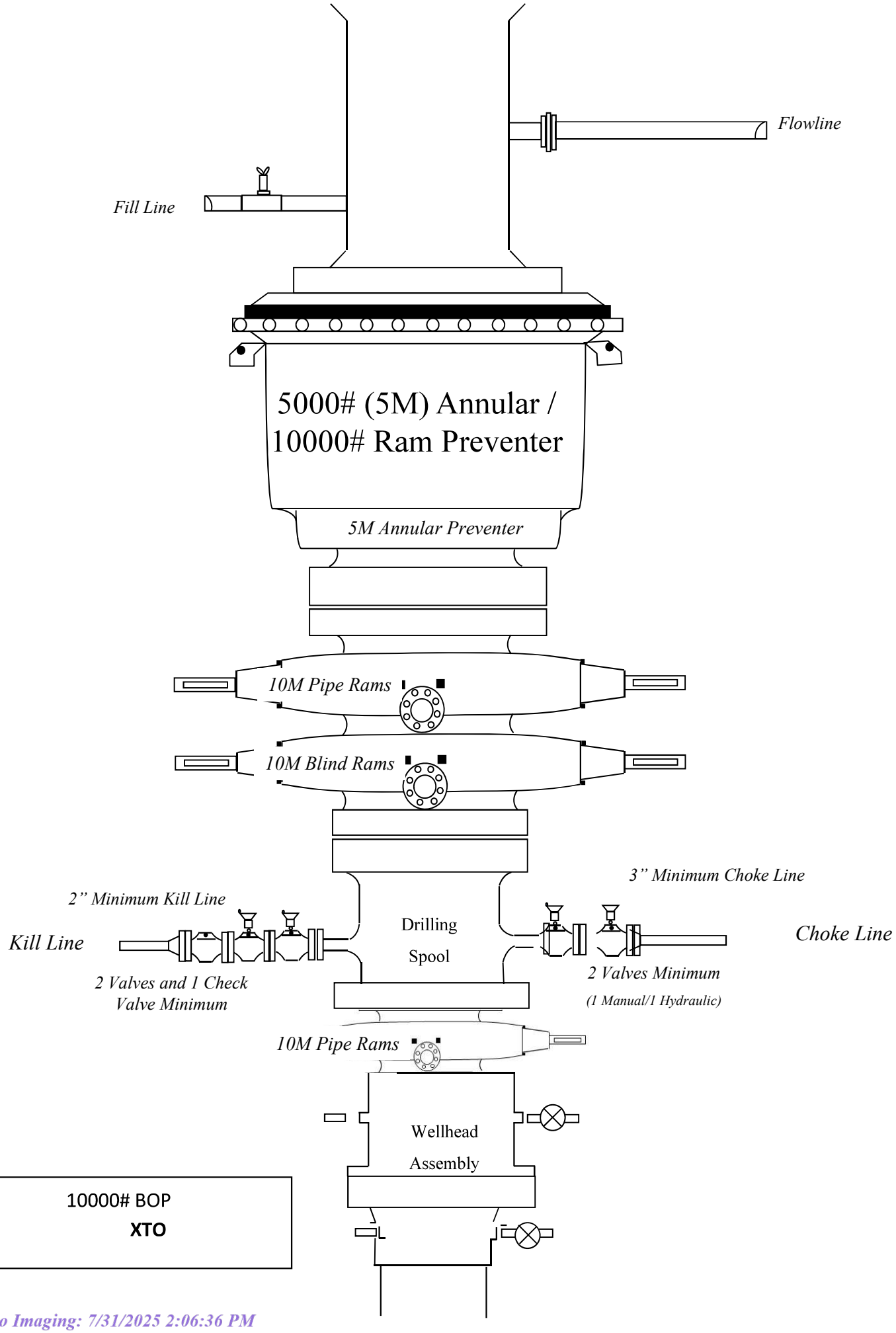
Wild_Well_Control_Plan_20241029064835.pdf

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO



10000# BOP

XTO

Tenaris

TenarisHydril Wedge 441®

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
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-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	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

For the lastest 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

Tenaris

TPN™

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
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.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	**Tension Efficiency**	100 %	**Minimum**	21,100 ft-lb
Coupling Length	8.408 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	22,600 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	24,100 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	104 °/100 ft	**Operating Torque**	29,300 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	32,500 ft-lb

Notes

For the lastest 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

PI-0/CII-3

Tenaris

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.	**Body Yield Strength**	683 x1000 lb
Nominal Weight	29.70 lb/ft	**Plain End Weight**	29.06 lb/ft	**Min. Internal Yield Pressure**	6890 psi
Drift	6.750 in.	**OD Tolerance**	API	**SMYS**	80,000 psi
Nominal ID	6.875 in.			**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 lastest 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

Tenaris

TenarisHydril Wedge 511

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
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-ICY
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.	**Body Yield Strength**	1068 x1000 lb
Nominal Weight	29.70 lb/ft	**Plain End Weight**	29.06 lb/ft	**Min. Internal Yield Pressure**	11,070 psi
Drift	6.750 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	6.875 in.			**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

For the lastest 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

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 H_2S, 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 H_2S 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
  - Detection of H_2S, and
  - Measures for protection against the gas,
  - 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 (SO_2). 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 H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	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
101H

OH

Plan: Plan 0

Standard Planning Report

23 June, 2025

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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	**Latitude:**	32° 5' 22.934 N
From:	Map	**Easting:**	628,781.10 usft	**Longitude:**	103° 55' 2.998 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well 101H

Well Position	**+N/-S**	0.0 usft	**Northing:**	396,606.20 usft	**Latitude:**	32° 5' 22.934 N
	+E/-W	0.0 usft	**Easting:**	628,781.10 usft	**Longitude:**	103° 55' 2.998 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,113.0 usft
Grid Convergence:		0.22 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/27/2025	6.23	59.60	46,971.25028828

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	179.71

Plan Survey Tool Program **Date** 6/23/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	24,525.9	Plan 0 (OH)	XOMR2_OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,020.0	20.40	280.50	1,998.6	32.7	-176.7	2.00	2.00	0.00	280.50	
8,020.0	20.40	280.50	7,622.3	413.9	-2,233.1	0.00	0.00	0.00	0.00	
8,847.7	19.80	330.00	8,405.0	562.6	-2,446.5	2.00	-0.07	5.98	115.30	
9,951.2	19.80	330.00	9,443.2	886.3	-2,633.4	0.00	0.00	0.00	0.00	
10,941.2	0.00	0.00	10,413.7	1,033.0	-2,718.1	2.00	-2.00	0.00	180.00	
11,271.3	0.00	0.00	10,743.8	1,033.0	-2,718.1	0.00	0.00	0.00	0.00	
12,396.3	90.00	200.54	11,460.0	362.3	-2,969.4	8.00	8.00	0.00	200.54	
13,437.6	90.00	179.71	11,460.0	-657.1	-3,151.4	2.00	0.00	-2.00	-90.00	
16,736.3	90.00	179.71	11,460.0	-3,955.8	-3,135.0	0.00	0.00	0.00	0.00	PPP1 101H v1
24,375.9	90.00	179.71	11,460.0	-11,595.3	-3,096.5	0.00	0.00	0.00	-89.25	LTP 101H v1
24,525.9	90.00	179.71	11,460.0	-11,745.3	-3,095.7	0.00	0.00	0.00	0.00	BHL 101H v1

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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	2.00	280.50	1,100.0	0.3	-1.7	-0.3	2.00	2.00	0.00
1,200.0	4.00	280.50	1,199.8	1.3	-6.9	-1.3	2.00	2.00	0.00
1,300.0	6.00	280.50	1,299.5	2.9	-15.4	-2.9	2.00	2.00	0.00
1,400.0	8.00	280.50	1,398.7	5.1	-27.4	-5.2	2.00	2.00	0.00
1,500.0	10.00	280.50	1,497.5	7.9	-42.8	-8.2	2.00	2.00	0.00
1,600.0	12.00	280.50	1,595.6	11.4	-61.6	-11.7	2.00	2.00	0.00
1,700.0	14.00	280.50	1,693.1	15.5	-83.7	-15.9	2.00	2.00	0.00
1,800.0	16.00	280.50	1,789.6	20.2	-109.1	-20.8	2.00	2.00	0.00
1,900.0	18.00	280.50	1,885.3	25.6	-137.9	-26.3	2.00	2.00	0.00
2,000.0	20.00	280.50	1,979.8	31.5	-169.9	-32.4	2.00	2.00	0.00
2,020.0	20.40	280.50	1,998.6	32.7	-176.7	-33.6	2.00	2.00	0.00
2,100.0	20.40	280.50	2,073.6	37.8	-204.1	-38.9	0.00	0.00	0.00
2,200.0	20.40	280.50	2,167.3	44.2	-238.4	-45.4	0.00	0.00	0.00
2,300.0	20.40	280.50	2,261.0	50.5	-272.6	-51.9	0.00	0.00	0.00
2,400.0	20.40	280.50	2,354.8	56.9	-306.9	-58.5	0.00	0.00	0.00
2,500.0	20.40	280.50	2,448.5	63.2	-341.2	-65.0	0.00	0.00	0.00
2,600.0	20.40	280.50	2,542.2	69.6	-375.5	-71.5	0.00	0.00	0.00
2,700.0	20.40	280.50	2,635.9	75.9	-409.7	-78.0	0.00	0.00	0.00
2,800.0	20.40	280.50	2,729.7	82.3	-444.0	-84.6	0.00	0.00	0.00
2,900.0	20.40	280.50	2,823.4	88.6	-478.3	-91.1	0.00	0.00	0.00
3,000.0	20.40	280.50	2,917.1	95.0	-512.5	-97.6	0.00	0.00	0.00
3,100.0	20.40	280.50	3,010.8	101.3	-546.8	-104.2	0.00	0.00	0.00
3,200.0	20.40	280.50	3,104.6	107.7	-581.1	-110.7	0.00	0.00	0.00
3,300.0	20.40	280.50	3,198.3	114.1	-615.4	-117.2	0.00	0.00	0.00
3,400.0	20.40	280.50	3,292.0	120.4	-649.6	-123.7	0.00	0.00	0.00
3,500.0	20.40	280.50	3,385.8	126.8	-683.9	-130.3	0.00	0.00	0.00
3,600.0	20.40	280.50	3,479.5	133.1	-718.2	-136.8	0.00	0.00	0.00
3,700.0	20.40	280.50	3,573.2	139.5	-752.5	-143.3	0.00	0.00	0.00
3,800.0	20.40	280.50	3,666.9	145.8	-786.7	-149.9	0.00	0.00	0.00
3,900.0	20.40	280.50	3,760.7	152.2	-821.0	-156.4	0.00	0.00	0.00
4,000.0	20.40	280.50	3,854.4	158.5	-855.3	-162.9	0.00	0.00	0.00
4,100.0	20.40	280.50	3,948.1	164.9	-889.6	-169.4	0.00	0.00	0.00
4,200.0	20.40	280.50	4,041.9	171.2	-923.8	-176.0	0.00	0.00	0.00
4,300.0	20.40	280.50	4,135.6	177.6	-958.1	-182.5	0.00	0.00	0.00
4,400.0	20.40	280.50	4,229.3	183.9	-992.4	-189.0	0.00	0.00	0.00
4,500.0	20.40	280.50	4,323.0	190.3	-1,026.6	-195.5	0.00	0.00	0.00
4,600.0	20.40	280.50	4,416.8	196.6	-1,060.9	-202.1	0.00	0.00	0.00
4,700.0	20.40	280.50	4,510.5	203.0	-1,095.2	-208.6	0.00	0.00	0.00
4,800.0	20.40	280.50	4,604.2	209.3	-1,129.5	-215.1	0.00	0.00	0.00
4,900.0	20.40	280.50	4,698.0	215.7	-1,163.7	-221.7	0.00	0.00	0.00
5,000.0	20.40	280.50	4,791.7	222.0	-1,198.0	-228.2	0.00	0.00	0.00
5,100.0	20.40	280.50	4,885.4	228.4	-1,232.3	-234.7	0.00	0.00	0.00
5,200.0	20.40	280.50	4,979.1	234.7	-1,266.6	-241.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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	20.40	280.50	5,072.9	241.1	-1,300.8	-247.8	0.00	0.00	0.00
5,400.0	20.40	280.50	5,166.6	247.4	-1,335.1	-254.3	0.00	0.00	0.00
5,500.0	20.40	280.50	5,260.3	253.8	-1,369.4	-260.8	0.00	0.00	0.00
5,600.0	20.40	280.50	5,354.1	260.2	-1,403.7	-267.4	0.00	0.00	0.00
5,700.0	20.40	280.50	5,447.8	266.5	-1,437.9	-273.9	0.00	0.00	0.00
5,800.0	20.40	280.50	5,541.5	272.9	-1,472.2	-280.4	0.00	0.00	0.00
5,900.0	20.40	280.50	5,635.2	279.2	-1,506.5	-286.9	0.00	0.00	0.00
6,000.0	20.40	280.50	5,729.0	285.6	-1,540.8	-293.5	0.00	0.00	0.00
6,100.0	20.40	280.50	5,822.7	291.9	-1,575.0	-300.0	0.00	0.00	0.00
6,200.0	20.40	280.50	5,916.4	298.3	-1,609.3	-306.5	0.00	0.00	0.00
6,300.0	20.40	280.50	6,010.2	304.6	-1,643.6	-313.1	0.00	0.00	0.00
6,400.0	20.40	280.50	6,103.9	311.0	-1,677.8	-319.6	0.00	0.00	0.00
6,500.0	20.40	280.50	6,197.6	317.3	-1,712.1	-326.1	0.00	0.00	0.00
6,600.0	20.40	280.50	6,291.3	323.7	-1,746.4	-332.6	0.00	0.00	0.00
6,700.0	20.40	280.50	6,385.1	330.0	-1,780.7	-339.2	0.00	0.00	0.00
6,800.0	20.40	280.50	6,478.8	336.4	-1,814.9	-345.7	0.00	0.00	0.00
6,900.0	20.40	280.50	6,572.5	342.7	-1,849.2	-352.2	0.00	0.00	0.00
7,000.0	20.40	280.50	6,666.2	349.1	-1,883.5	-358.8	0.00	0.00	0.00
7,100.0	20.40	280.50	6,760.0	355.4	-1,917.8	-365.3	0.00	0.00	0.00
7,200.0	20.40	280.50	6,853.7	361.8	-1,952.0	-371.8	0.00	0.00	0.00
7,300.0	20.40	280.50	6,947.4	368.1	-1,986.3	-378.3	0.00	0.00	0.00
7,400.0	20.40	280.50	7,041.2	374.5	-2,020.6	-384.9	0.00	0.00	0.00
7,500.0	20.40	280.50	7,134.9	380.8	-2,054.9	-391.4	0.00	0.00	0.00
7,600.0	20.40	280.50	7,228.6	387.2	-2,089.1	-397.9	0.00	0.00	0.00
7,700.0	20.40	280.50	7,322.3	393.5	-2,123.4	-404.4	0.00	0.00	0.00
7,800.0	20.40	280.50	7,416.1	399.9	-2,157.7	-411.0	0.00	0.00	0.00
7,900.0	20.40	280.50	7,509.8	406.3	-2,191.9	-417.5	0.00	0.00	0.00
8,000.0	20.40	280.50	7,603.5	412.6	-2,226.2	-424.0	0.00	0.00	0.00
8,020.0	20.40	280.50	7,622.3	413.9	-2,233.1	-425.3	0.00	0.00	0.00
8,100.0	19.77	284.78	7,697.4	419.9	-2,259.9	-431.5	2.00	-0.79	5.35
8,200.0	19.13	290.48	7,791.7	429.9	-2,291.6	-441.7	2.00	-0.64	5.70
8,300.0	18.68	296.49	7,886.3	442.8	-2,321.3	-454.7	2.00	-0.45	6.02
8,400.0	18.42	302.73	7,981.1	458.5	-2,348.9	-470.5	2.00	-0.25	6.24
8,500.0	18.38	309.07	8,076.0	477.0	-2,374.4	-489.1	2.00	-0.05	6.34
8,600.0	18.54	315.37	8,170.9	498.2	-2,397.8	-510.5	2.00	0.16	6.30
8,700.0	18.91	321.49	8,265.6	522.2	-2,419.1	-534.6	2.00	0.37	6.13
8,800.0	19.47	327.34	8,360.1	548.9	-2,438.2	-561.4	2.00	0.56	5.84
8,847.7	19.80	330.00	8,405.0	562.6	-2,446.5	-575.2	2.00	0.69	5.58
8,900.0	19.80	330.00	8,454.2	578.0	-2,455.4	-590.6	0.00	0.00	0.00
9,000.0	19.80	330.00	8,548.3	607.3	-2,472.3	-620.0	0.00	0.00	0.00
9,100.0	19.80	330.00	8,642.4	636.6	-2,489.2	-649.4	0.00	0.00	0.00
9,200.0	19.80	330.00	8,736.5	666.0	-2,506.2	-678.8	0.00	0.00	0.00
9,300.0	19.80	330.00	8,830.6	695.3	-2,523.1	-708.2	0.00	0.00	0.00
9,400.0	19.80	330.00	8,924.7	724.6	-2,540.0	-737.7	0.00	0.00	0.00
9,500.0	19.80	330.00	9,018.7	754.0	-2,557.0	-767.1	0.00	0.00	0.00
9,600.0	19.80	330.00	9,112.8	783.3	-2,573.9	-796.5	0.00	0.00	0.00
9,700.0	19.80	330.00	9,206.9	812.6	-2,590.8	-825.9	0.00	0.00	0.00
9,800.0	19.80	330.00	9,301.0	842.0	-2,607.8	-855.4	0.00	0.00	0.00
9,900.0	19.80	330.00	9,395.1	871.3	-2,624.7	-884.8	0.00	0.00	0.00
9,951.2	19.80	330.00	9,443.2	886.3	-2,633.4	-899.8	0.00	0.00	0.00
10,000.0	18.82	330.00	9,489.3	900.3	-2,641.5	-913.9	2.00	-2.00	0.00
10,100.0	16.82	330.00	9,584.5	926.8	-2,656.8	-940.4	2.00	-2.00	0.00
10,200.0	14.82	330.00	9,680.7	950.4	-2,670.4	-964.1	2.00	-2.00	0.00
10,300.0	12.82	330.00	9,777.8	971.1	-2,682.3	-984.9	2.00	-2.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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)
10,400.0	10.82	330.00	9,875.7	988.9	-2,692.6	-1,002.7	2.00	-2.00	0.00
10,500.0	8.82	330.00	9,974.2	1,003.6	-2,701.1	-1,017.5	2.00	-2.00	0.00
10,600.0	6.82	330.00	10,073.3	1,015.4	-2,707.9	-1,029.3	2.00	-2.00	0.00
10,700.0	4.82	330.00	10,172.8	1,024.2	-2,713.0	-1,038.1	2.00	-2.00	0.00
10,800.0	2.82	330.00	10,272.5	1,030.0	-2,716.3	-1,043.9	2.00	-2.00	0.00
10,900.0	0.82	330.00	10,372.5	1,032.7	-2,717.9	-1,046.7	2.00	-2.00	0.00
10,941.2	0.00	0.00	10,413.7	1,033.0	-2,718.1	-1,046.9	2.00	-2.00	0.00
11,000.0	0.00	0.00	10,472.5	1,033.0	-2,718.1	-1,046.9	0.00	0.00	0.00
11,100.0	0.00	0.00	10,572.5	1,033.0	-2,718.1	-1,046.9	0.00	0.00	0.00
11,200.0	0.00	0.00	10,672.5	1,033.0	-2,718.1	-1,046.9	0.00	0.00	0.00
11,271.3	0.00	0.00	10,743.8	1,033.0	-2,718.1	-1,046.9	0.00	0.00	0.00
11,300.0	2.29	200.54	10,772.5	1,032.5	-2,718.3	-1,046.4	8.00	8.00	0.00
11,400.0	10.29	200.54	10,871.8	1,022.2	-2,722.1	-1,036.2	8.00	8.00	0.00
11,500.0	18.29	200.54	10,968.6	999.1	-2,730.8	-1,013.1	8.00	8.00	0.00
11,600.0	26.29	200.54	11,061.1	963.6	-2,744.1	-977.7	8.00	8.00	0.00
11,700.0	34.29	200.54	11,147.3	916.4	-2,761.8	-930.6	8.00	8.00	0.00
11,800.0	42.29	200.54	11,225.8	858.4	-2,783.5	-872.7	8.00	8.00	0.00
11,900.0	50.29	200.54	11,294.8	790.8	-2,808.8	-805.2	8.00	8.00	0.00
12,000.0	58.29	200.54	11,353.1	714.8	-2,837.3	-729.4	8.00	8.00	0.00
12,100.0	66.29	200.54	11,399.6	632.0	-2,868.3	-646.7	8.00	8.00	0.00
12,200.0	74.29	200.54	11,433.3	543.9	-2,901.3	-558.8	8.00	8.00	0.00
12,300.0	82.29	200.54	11,453.5	452.2	-2,935.7	-467.3	8.00	8.00	0.00
12,396.3	90.00	200.54	11,460.0	362.3	-2,969.4	-377.6	8.00	8.00	0.00
12,400.0	90.00	200.47	11,460.0	358.9	-2,970.6	-374.1	2.00	0.00	-2.00
12,500.0	90.00	198.47	11,460.0	264.6	-3,004.0	-280.0	2.00	0.00	-2.00
12,600.0	90.00	196.47	11,460.0	169.2	-3,034.0	-184.8	2.00	0.00	-2.00
12,700.0	90.00	194.47	11,460.0	72.8	-3,060.7	-88.6	2.00	0.00	-2.00
12,800.0	90.00	192.47	11,460.0	-24.4	-3,083.9	8.6	2.00	0.00	-2.00
12,900.0	90.00	190.47	11,460.0	-122.4	-3,103.8	106.5	2.00	0.00	-2.00
13,000.0	90.00	188.47	11,460.0	-221.0	-3,120.3	205.0	2.00	0.00	-2.00
13,100.0	90.00	186.47	11,460.0	-320.2	-3,133.3	304.1	2.00	0.00	-2.00
13,200.0	90.00	184.47	11,460.0	-419.7	-3,142.8	403.6	2.00	0.00	-2.00
13,300.0	90.00	182.47	11,460.0	-519.5	-3,148.8	503.4	2.00	0.00	-2.00
13,400.0	90.00	180.47	11,460.0	-619.5	-3,151.4	603.3	2.00	0.00	-2.00
13,437.6	90.00	179.71	11,460.0	-657.1	-3,151.4	640.9	2.00	0.00	-2.00
13,500.0	90.00	179.71	11,460.0	-719.5	-3,151.1	703.3	0.00	0.00	0.00
13,600.0	90.00	179.71	11,460.0	-819.5	-3,150.6	803.3	0.00	0.00	0.00
13,700.0	90.00	179.71	11,460.0	-919.5	-3,150.1	903.3	0.00	0.00	0.00
13,800.0	90.00	179.71	11,460.0	-1,019.5	-3,149.6	1,003.3	0.00	0.00	0.00
13,900.0	90.00	179.71	11,460.0	-1,119.5	-3,149.1	1,103.3	0.00	0.00	0.00
14,000.0	90.00	179.71	11,460.0	-1,219.5	-3,148.6	1,203.3	0.00	0.00	0.00
14,100.0	90.00	179.71	11,460.0	-1,319.5	-3,148.1	1,303.3	0.00	0.00	0.00
14,200.0	90.00	179.71	11,460.0	-1,419.5	-3,147.6	1,403.3	0.00	0.00	0.00
14,300.0	90.00	179.71	11,460.0	-1,519.5	-3,147.1	1,503.3	0.00	0.00	0.00
14,400.0	90.00	179.71	11,460.0	-1,619.5	-3,146.6	1,603.3	0.00	0.00	0.00
14,500.0	90.00	179.71	11,460.0	-1,719.5	-3,146.1	1,703.3	0.00	0.00	0.00
14,600.0	90.00	179.71	11,460.0	-1,819.5	-3,145.6	1,803.3	0.00	0.00	0.00
14,700.0	90.00	179.71	11,460.0	-1,919.5	-3,145.2	1,903.3	0.00	0.00	0.00
14,800.0	90.00	179.71	11,460.0	-2,019.5	-3,144.7	2,003.3	0.00	0.00	0.00
14,900.0	90.00	179.71	11,460.0	-2,119.5	-3,144.2	2,103.3	0.00	0.00	0.00
15,000.0	90.00	179.71	11,460.0	-2,219.5	-3,143.7	2,203.3	0.00	0.00	0.00
15,100.0	90.00	179.71	11,460.0	-2,319.5	-3,143.2	2,303.3	0.00	0.00	0.00
15,200.0	90.00	179.71	11,460.0	-2,419.5	-3,142.7	2,403.3	0.00	0.00	0.00
15,300.0	90.00	179.71	11,460.0	-2,519.5	-3,142.2	2,503.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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	179.71	11,460.0	-2,619.5	-3,141.7	2,603.3	0.00	0.00	0.00
15,500.0	90.00	179.71	11,460.0	-2,719.5	-3,141.2	2,703.3	0.00	0.00	0.00
15,600.0	90.00	179.71	11,460.0	-2,819.5	-3,140.7	2,803.3	0.00	0.00	0.00
15,700.0	90.00	179.71	11,460.0	-2,919.5	-3,140.2	2,903.3	0.00	0.00	0.00
15,800.0	90.00	179.71	11,460.0	-3,019.5	-3,139.7	3,003.3	0.00	0.00	0.00
15,900.0	90.00	179.71	11,460.0	-3,119.5	-3,139.2	3,103.3	0.00	0.00	0.00
16,000.0	90.00	179.71	11,460.0	-3,219.5	-3,138.7	3,203.3	0.00	0.00	0.00
16,100.0	90.00	179.71	11,460.0	-3,319.5	-3,138.2	3,303.3	0.00	0.00	0.00
16,200.0	90.00	179.71	11,460.0	-3,419.5	-3,137.7	3,403.3	0.00	0.00	0.00
16,300.0	90.00	179.71	11,460.0	-3,519.5	-3,137.2	3,503.3	0.00	0.00	0.00
16,400.0	90.00	179.71	11,460.0	-3,619.5	-3,136.7	3,603.3	0.00	0.00	0.00
16,500.0	90.00	179.71	11,460.0	-3,719.5	-3,136.2	3,703.3	0.00	0.00	0.00
16,600.0	90.00	179.71	11,460.0	-3,819.5	-3,135.7	3,803.3	0.00	0.00	0.00
16,700.0	90.00	179.71	11,460.0	-3,919.5	-3,135.2	3,903.3	0.00	0.00	0.00
16,736.3	90.00	179.71	11,460.0	-3,955.8	-3,135.0	3,939.6	0.00	0.00	0.00
16,800.0	90.00	179.71	11,460.0	-4,019.5	-3,134.7	4,003.3	0.00	0.00	0.00
16,900.0	90.00	179.71	11,460.0	-4,119.5	-3,134.2	4,103.3	0.00	0.00	0.00
17,000.0	90.00	179.71	11,460.0	-4,219.5	-3,133.7	4,203.3	0.00	0.00	0.00
17,100.0	90.00	179.71	11,460.0	-4,319.5	-3,133.2	4,303.3	0.00	0.00	0.00
17,200.0	90.00	179.71	11,460.0	-4,419.5	-3,132.7	4,403.3	0.00	0.00	0.00
17,300.0	90.00	179.71	11,460.0	-4,519.5	-3,132.2	4,503.3	0.00	0.00	0.00
17,400.0	90.00	179.71	11,460.0	-4,619.5	-3,131.7	4,603.3	0.00	0.00	0.00
17,500.0	90.00	179.71	11,460.0	-4,719.4	-3,131.2	4,703.3	0.00	0.00	0.00
17,600.0	90.00	179.71	11,460.0	-4,819.4	-3,130.7	4,803.3	0.00	0.00	0.00
17,700.0	90.00	179.71	11,460.0	-4,919.4	-3,130.2	4,903.3	0.00	0.00	0.00
17,800.0	90.00	179.71	11,460.0	-5,019.4	-3,129.7	5,003.3	0.00	0.00	0.00
17,900.0	90.00	179.71	11,460.0	-5,119.4	-3,129.2	5,103.3	0.00	0.00	0.00
18,000.0	90.00	179.71	11,460.0	-5,219.4	-3,128.7	5,203.3	0.00	0.00	0.00
18,100.0	90.00	179.71	11,460.0	-5,319.4	-3,128.2	5,303.3	0.00	0.00	0.00
18,200.0	90.00	179.71	11,460.0	-5,419.4	-3,127.7	5,403.3	0.00	0.00	0.00
18,300.0	90.00	179.71	11,460.0	-5,519.4	-3,127.2	5,503.3	0.00	0.00	0.00
18,400.0	90.00	179.71	11,460.0	-5,619.4	-3,126.7	5,603.3	0.00	0.00	0.00
18,500.0	90.00	179.71	11,460.0	-5,719.4	-3,126.2	5,703.3	0.00	0.00	0.00
18,600.0	90.00	179.71	11,460.0	-5,819.4	-3,125.7	5,803.3	0.00	0.00	0.00
18,700.0	90.00	179.71	11,460.0	-5,919.4	-3,125.2	5,903.3	0.00	0.00	0.00
18,800.0	90.00	179.71	11,460.0	-6,019.4	-3,124.7	6,003.3	0.00	0.00	0.00
18,900.0	90.00	179.71	11,460.0	-6,119.4	-3,124.2	6,103.3	0.00	0.00	0.00
19,000.0	90.00	179.71	11,460.0	-6,219.4	-3,123.7	6,203.3	0.00	0.00	0.00
19,100.0	90.00	179.71	11,460.0	-6,319.4	-3,123.2	6,303.3	0.00	0.00	0.00
19,200.0	90.00	179.71	11,460.0	-6,419.4	-3,122.7	6,403.3	0.00	0.00	0.00
19,300.0	90.00	179.71	11,460.0	-6,519.4	-3,122.2	6,503.3	0.00	0.00	0.00
19,400.0	90.00	179.71	11,460.0	-6,619.4	-3,121.7	6,603.3	0.00	0.00	0.00
19,500.0	90.00	179.71	11,460.0	-6,719.4	-3,121.2	6,703.3	0.00	0.00	0.00
19,600.0	90.00	179.71	11,460.0	-6,819.4	-3,120.7	6,803.3	0.00	0.00	0.00
19,700.0	90.00	179.71	11,460.0	-6,919.4	-3,120.2	6,903.3	0.00	0.00	0.00
19,800.0	90.00	179.71	11,460.0	-7,019.4	-3,119.7	7,003.3	0.00	0.00	0.00
19,900.0	90.00	179.71	11,460.0	-7,119.4	-3,119.2	7,103.3	0.00	0.00	0.00
20,000.0	90.00	179.71	11,460.0	-7,219.4	-3,118.7	7,203.3	0.00	0.00	0.00
20,100.0	90.00	179.71	11,460.0	-7,319.4	-3,118.2	7,303.3	0.00	0.00	0.00
20,200.0	90.00	179.71	11,460.0	-7,419.4	-3,117.6	7,403.3	0.00	0.00	0.00
20,300.0	90.00	179.71	11,460.0	-7,519.4	-3,117.1	7,503.3	0.00	0.00	0.00
20,400.0	90.00	179.71	11,460.0	-7,619.4	-3,116.6	7,603.3	0.00	0.00	0.00
20,500.0	90.00	179.71	11,460.0	-7,719.4	-3,116.1	7,703.3	0.00	0.00	0.00
20,600.0	90.00	179.71	11,460.0	-7,819.4	-3,115.6	7,803.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**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	11,460.0	-7,919.4	-3,115.1	7,903.3	0.00	0.00	0.00
20,800.0	90.00	179.71	11,460.0	-8,019.4	-3,114.6	8,003.3	0.00	0.00	0.00
20,900.0	90.00	179.71	11,460.0	-8,119.4	-3,114.1	8,103.3	0.00	0.00	0.00
21,000.0	90.00	179.71	11,460.0	-8,219.4	-3,113.6	8,203.3	0.00	0.00	0.00
21,100.0	90.00	179.71	11,460.0	-8,319.4	-3,113.1	8,303.3	0.00	0.00	0.00
21,200.0	90.00	179.71	11,460.0	-8,419.4	-3,112.6	8,403.3	0.00	0.00	0.00
21,300.0	90.00	179.71	11,460.0	-8,519.4	-3,112.1	8,503.3	0.00	0.00	0.00
21,400.0	90.00	179.71	11,460.0	-8,619.4	-3,111.6	8,603.3	0.00	0.00	0.00
21,500.0	90.00	179.71	11,460.0	-8,719.4	-3,111.1	8,703.3	0.00	0.00	0.00
21,600.0	90.00	179.71	11,460.0	-8,819.4	-3,110.6	8,803.3	0.00	0.00	0.00
21,700.0	90.00	179.71	11,460.0	-8,919.4	-3,110.1	8,903.3	0.00	0.00	0.00
21,800.0	90.00	179.71	11,460.0	-9,019.4	-3,109.6	9,003.3	0.00	0.00	0.00
21,900.0	90.00	179.71	11,460.0	-9,119.4	-3,109.1	9,103.3	0.00	0.00	0.00
22,000.0	90.00	179.71	11,460.0	-9,219.4	-3,108.6	9,203.3	0.00	0.00	0.00
22,100.0	90.00	179.71	11,460.0	-9,319.4	-3,108.1	9,303.3	0.00	0.00	0.00
22,200.0	90.00	179.71	11,460.0	-9,419.4	-3,107.6	9,403.3	0.00	0.00	0.00
22,300.0	90.00	179.71	11,460.0	-9,519.4	-3,107.0	9,503.3	0.00	0.00	0.00
22,400.0	90.00	179.71	11,460.0	-9,619.4	-3,106.5	9,603.3	0.00	0.00	0.00
22,500.0	90.00	179.71	11,460.0	-9,719.4	-3,106.0	9,703.3	0.00	0.00	0.00
22,600.0	90.00	179.71	11,460.0	-9,819.4	-3,105.5	9,803.3	0.00	0.00	0.00
22,700.0	90.00	179.71	11,460.0	-9,919.4	-3,105.0	9,903.3	0.00	0.00	0.00
22,800.0	90.00	179.71	11,460.0	-10,019.4	-3,104.5	10,003.3	0.00	0.00	0.00
22,900.0	90.00	179.71	11,460.0	-10,119.4	-3,104.0	10,103.3	0.00	0.00	0.00
23,000.0	90.00	179.71	11,460.0	-10,219.4	-3,103.5	10,203.3	0.00	0.00	0.00
23,100.0	90.00	179.71	11,460.0	-10,319.4	-3,103.0	10,303.3	0.00	0.00	0.00
23,200.0	90.00	179.71	11,460.0	-10,419.4	-3,102.5	10,403.3	0.00	0.00	0.00
23,300.0	90.00	179.71	11,460.0	-10,519.4	-3,102.0	10,503.3	0.00	0.00	0.00
23,400.0	90.00	179.71	11,460.0	-10,619.4	-3,101.5	10,603.3	0.00	0.00	0.00
23,500.0	90.00	179.71	11,460.0	-10,719.4	-3,101.0	10,703.3	0.00	0.00	0.00
23,600.0	90.00	179.71	11,460.0	-10,819.4	-3,100.4	10,803.3	0.00	0.00	0.00
23,700.0	90.00	179.71	11,460.0	-10,919.4	-3,099.9	10,903.3	0.00	0.00	0.00
23,800.0	90.00	179.71	11,460.0	-11,019.4	-3,099.4	11,003.3	0.00	0.00	0.00
23,900.0	90.00	179.71	11,460.0	-11,119.4	-3,098.9	11,103.3	0.00	0.00	0.00
24,000.0	90.00	179.71	11,460.0	-11,219.4	-3,098.4	11,203.3	0.00	0.00	0.00
24,100.0	90.00	179.71	11,460.0	-11,319.4	-3,097.9	11,303.3	0.00	0.00	0.00
24,200.0	90.00	179.71	11,460.0	-11,419.4	-3,097.4	11,403.3	0.00	0.00	0.00
24,300.0	90.00	179.71	11,460.0	-11,519.4	-3,096.9	11,503.3	0.00	0.00	0.00
24,375.9	90.00	179.71	11,460.0	-11,595.3	-3,096.5	11,579.2	0.00	0.00	0.00
24,400.0	90.00	179.71	11,460.0	-11,619.4	-3,096.4	11,603.3	0.00	0.00	0.00
24,500.0	90.00	179.71	11,460.0	-11,719.4	-3,095.9	11,703.3	0.00	0.00	0.00
24,525.9	90.00	179.71	11,460.0	-11,745.3	-3,095.7	11,729.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well 101H
Company:	ROC	**TVD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Project:	Long Lead - PLU 31-7	**MD Reference:**	Elev: 3113' @ 3145.0usft (WBP)
Site:	Brushy Draw 31-7 Federal	**North Reference:**	Grid
Well:	101H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

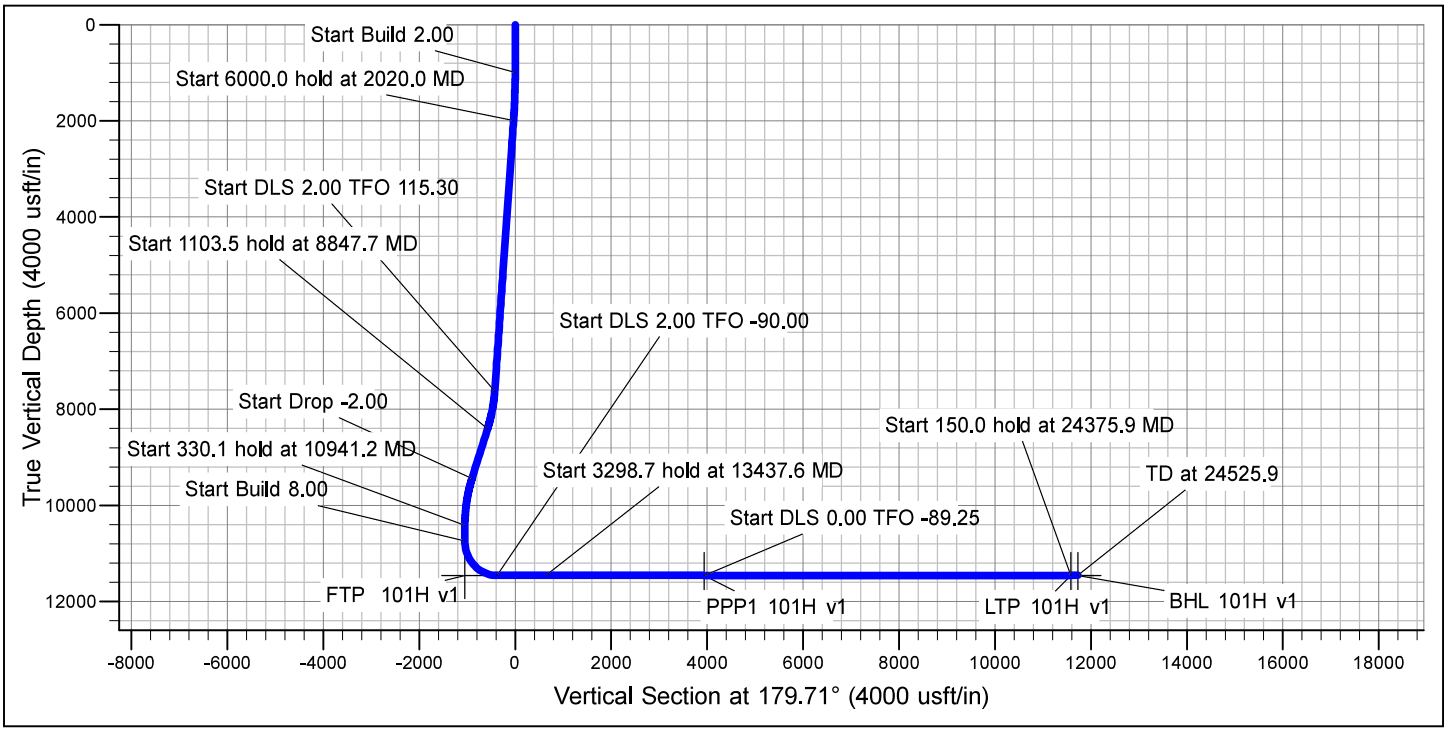
Design Targets

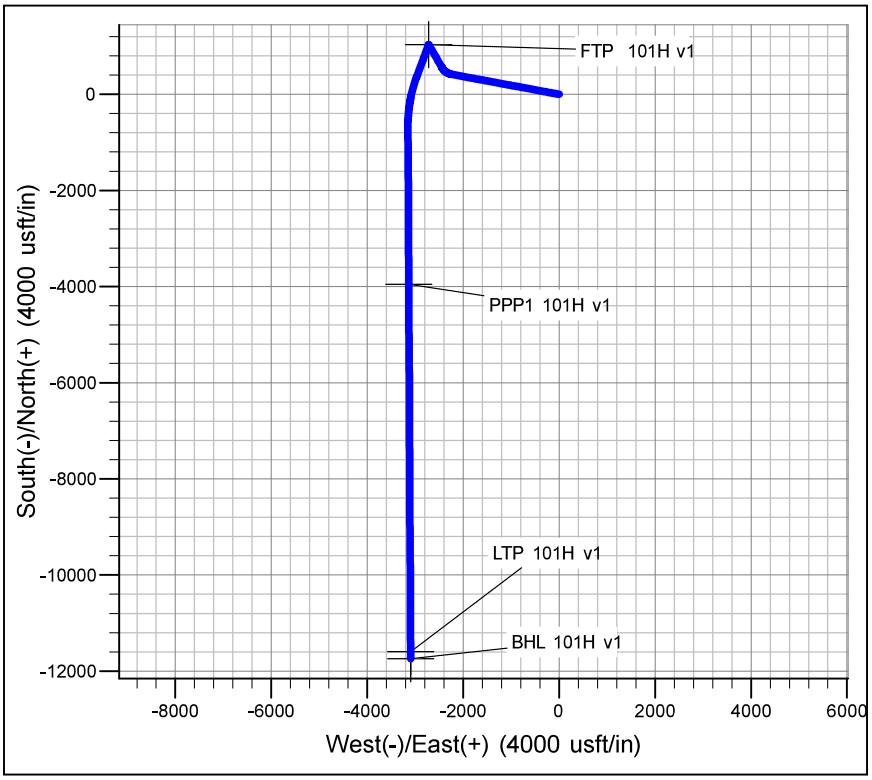
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PPP1 101H v1 - plan hits target center - Point	0.00	0.00	11,460.0	-3,955.8	-3,135.0	392,650.40	625,646.10	32° 4' 43.904 N	103° 55' 39.613 W
LTP 101H v1 - plan hits target center - Point	0.00	360.00	11,460.0	-11,595.3	-3,096.5	385,010.90	625,684.60	32° 3' 28.299 N	103° 55' 39.499 W
BHL 101H v1 - plan misses target center by 0.1usft at 24525.9usft MD (11460.0 TVD, -11745.3 N, -3095.7 E) - Point	0.00	360.00	11,460.0	-11,745.3	-3,095.8	384,860.90	625,685.30	32° 3' 26.815 N	103° 55' 39.498 W
FTP 101H v1 - plan misses target center by 296.7usft at 11827.2usft MD (11245.5 TVD, 840.9 N, -2790.0 E) - Point	0.00	360.00	11,460.0	1,032.9	-2,718.1	397,639.10	626,063.00	32° 5' 33.258 N	103° 55' 34.549 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
741.9	741.9	Rustler			
1,107.0	1,107.0	Salado			
3,339.3	3,235.1	Base of Salt			
3,660.8	3,536.5	Delaware			
4,628.8	4,443.8	Cherry Canyon			
6,319.9	6,028.8	Brushy Canyon			
7,416.7	7,056.8	Basal Brushy Canyon			
7,614.5	7,242.2	Bone Spring Lm.			
7,817.4	7,432.4	Avalon			
8,206.9	7,798.2	Lower Avalon			
8,570.0	8,142.4	1st Bone Spring Sand			
9,077.4	8,621.1	2nd Bone Spring Lime			
9,228.9	8,763.7	2nd Bone Spring Sand			
9,954.9	9,446.8	3rd Bone Spring Lime			
10,112.9	9,596.9	Harkey			
10,550.0	10,023.6	3rd Bone Spring Shale			
10,978.8	10,451.3	Wolfcamp			
11,117.8	10,590.3	Wolfcamp A			
11,517.4	10,985.1	Wolfcamp B			
11,828.3	11,246.3	Wolfcamp C			
12,129.9	11,411.0	Wolfcamp D			
12,396.3	11,460.0	Wolfcamp D Landing			

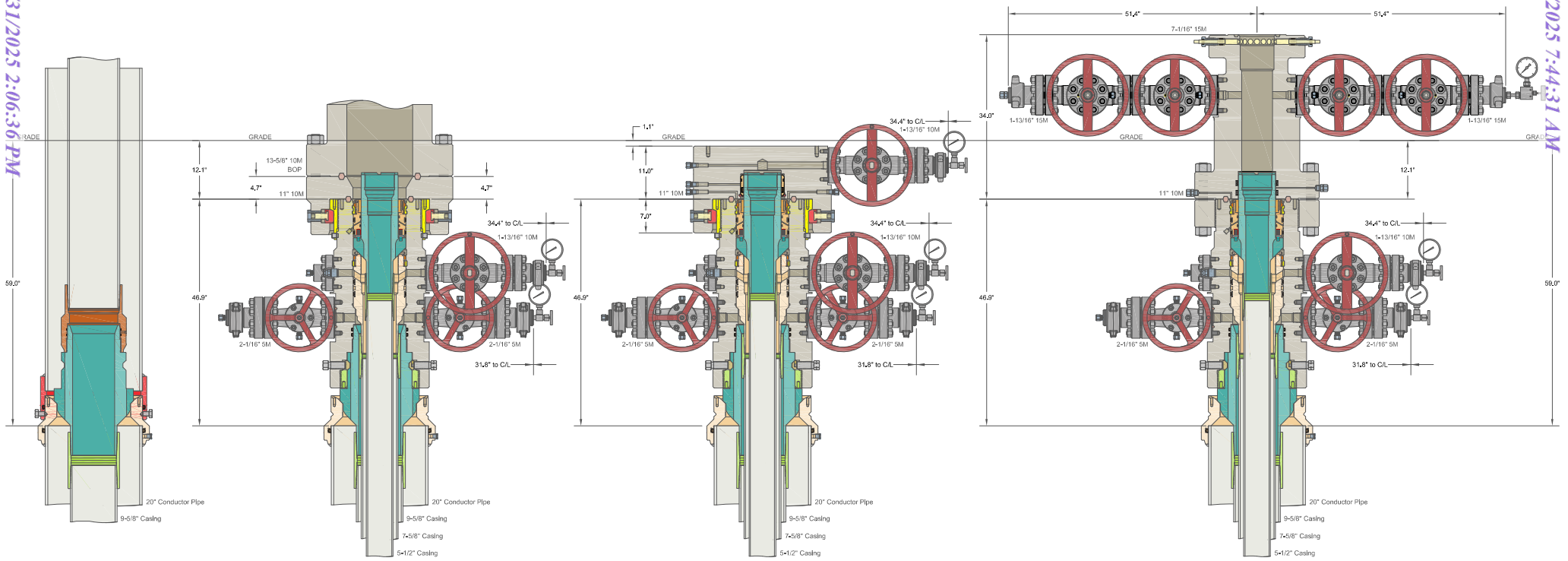
Site: Brushy Draw 31-7 Federal
Well: 101H
Wellbore: OH
Design: Plan 0





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
741.9	741.9	Rustler
1107.0	1107.0	Salado
3235.1	3339.3	Base of Salt
3536.5	3660.8	Delaware
4443.8	4628.8	Cherry Canyon
6028.8	6319.9	Brushy Canyon
7056.8	7416.7	Basal Brushy Canyon
7242.2	7614.5	Bone Spring Lm.
7432.4	7817.4	Avalon
7798.2	8206.9	Lower Avalon
8142.4	8570.0	1st Bone Spring Sand
8621.1	9077.4	2nd Bone Spring Lime
8763.7	9228.9	2nd Bone Spring Sand
9446.8	9954.9	3rd Bone Spring Lime
9596.9	10112.9	Harkey
10023.6	10550.0	3rd Bone Spring Shale
10451.3	10978.8	Wolfcamp
10590.3	11117.8	Wolfcamp A
10985.1	11517.4	Wolfcamp B
11246.3	11828.3	Wolfcamp C
11411.0	12129.9	Wolfcamp D
11460.0	12396.3	Wolfcamp D Landing



ALL DIMENSIONS APPROXIMATE

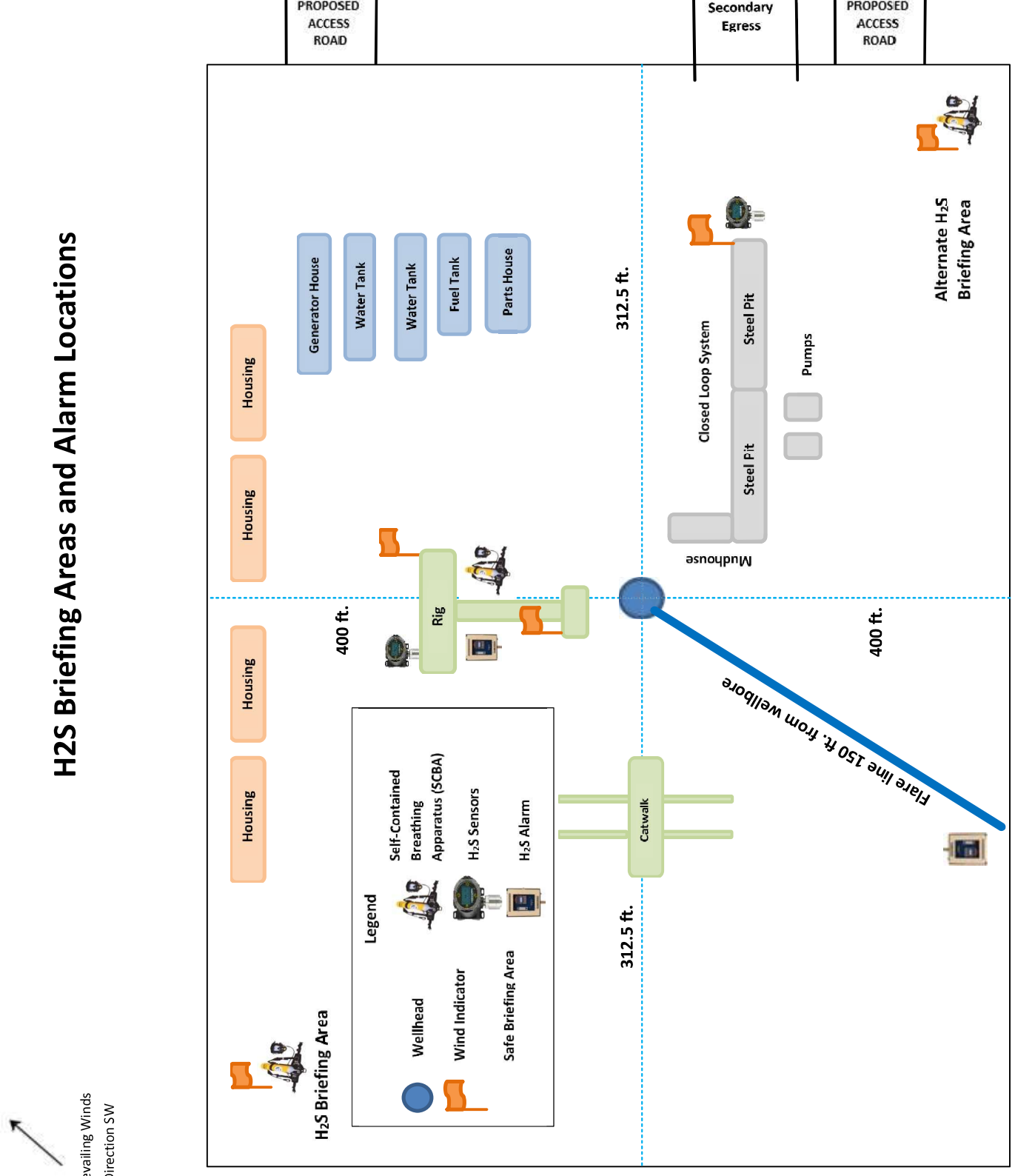
CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

H2S Briefing Areas and Alarm Locations



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	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated Decline oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated 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.

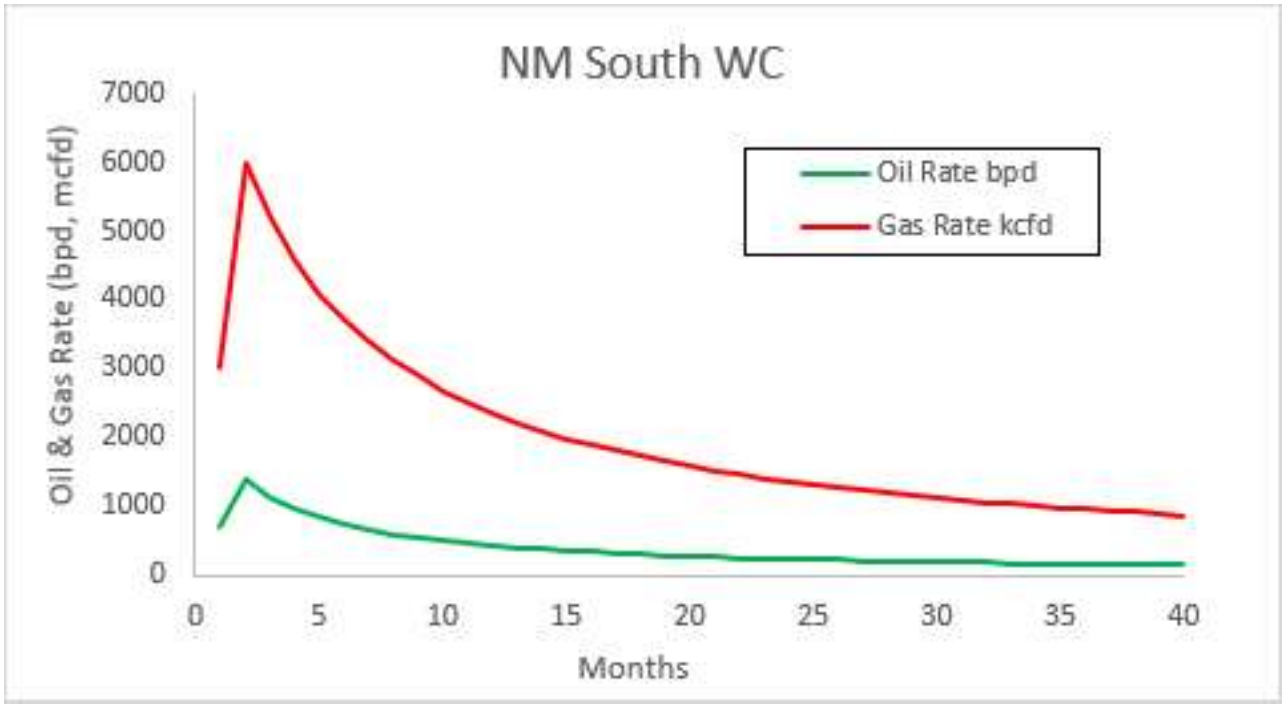
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLC will turn operations to onsite separation vessels and flow to the gathering pipeline.

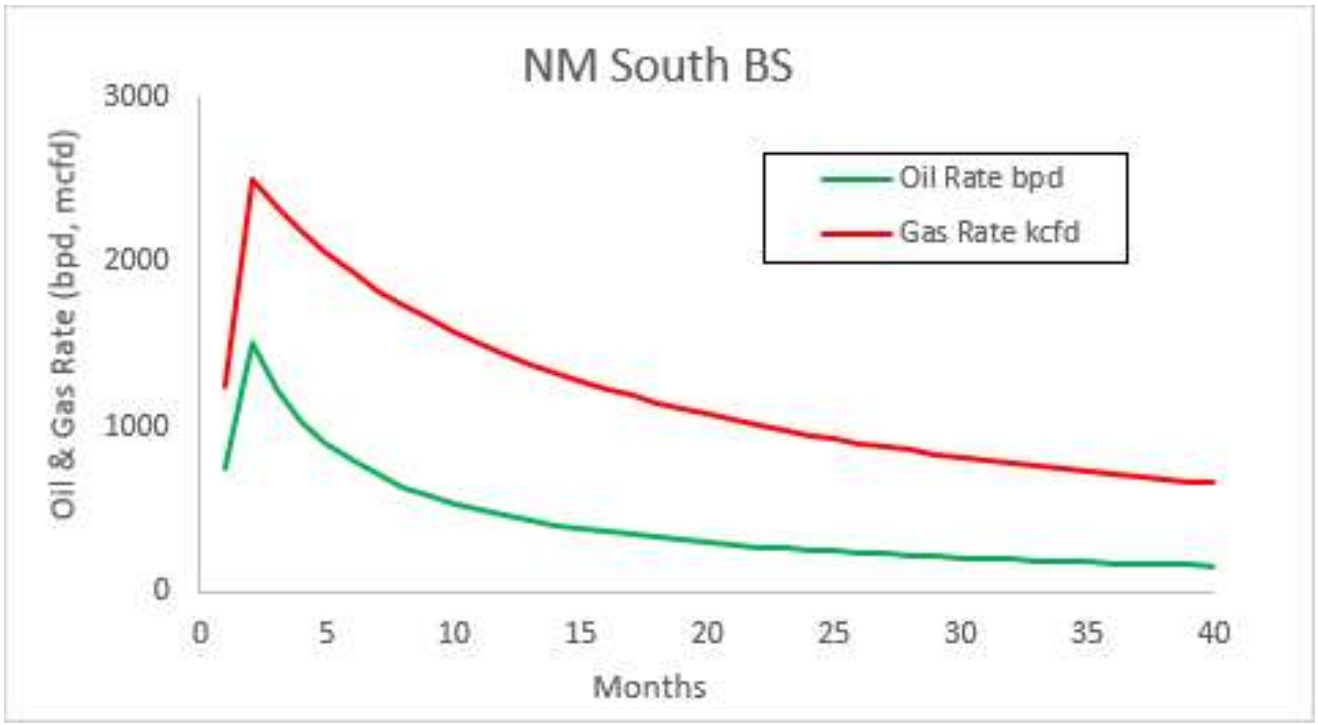
- During production operations, XTO Permian Operating LLC will take every practical e ort to minimize waste of natural gas through venting and flaring by:

  - 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.


NM South WC
Oil & Gas Rate (bpd, mcfd)
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd


NM South BS
Oil & Gas Rate (bpd, mcfd)
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd

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

ExxonMobil
Brushy Draw 31-7 Federal 101H
Projected TD: 24526' MD / 11460' TVD
SHL: 1379' FNL & 1843' FEL , Section 31, T25S, R30E
BHL: 2477' FNL & 344' FWL , 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	742'	Water
Salado	1107'	Water
Base of Salt	3235'	Water
Delaware	3536'	Water
Cherry Canyon	4444'	Water/Oil/Gas
Brushy Canyon	6029'	Water/Oil/Gas
Basal Brushy Canyon	7057'	Water/Oil/Gas
Bone Spring Lm.	7242'	Water/Oil/Gas
Avalon	7432'	Water/Oil/Gas
Lower Avalon	7798'	Water/Oil/Gas
1st Bone Spring Sand	8142'	Water/Oil/Gas
2nd Bone Spring Lime	8621'	Water/Oil/Gas
2nd Bone Spring Sand	8764'	Water/Oil/Gas
3rd Bone Spring Lime	9447'	Water/Oil/Gas
Harkey	9597'	Water/Oil/Gas
3rd Bone Spring Shale	10024'	Water/Oil/Gas
Wolfcamp	10451'	Water/Oil/Gas
Wolfcamp A	10590'	Water/Oil/Gas
Wolfcamp B	10985'	Water/Oil/Gas
Wolfcamp C	11246'	Water/Oil/Gas
Wolfcamp D	11411'	Water/Oil/Gas
Landing	11460'	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 surface casing at 1082' 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' – 1082'	1082'	9-5/8"	40	J55	BTC	New	11.90	10.97	5.09
8.75"	0' – 4000'	3854'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.76	7.07	2.10
8.75"	4000' – 11121'	10593'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	2.92	5.15	2.96
6.75"	0' – 11021'	10493'	5-1/2"	20	P110-ICY	TPN	New	1.18	2.71	2.54
6.75"	11021' – 24526'	11460'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	2.48	2.64

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 11271' MD / 10744' 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	232	12.4	2.11	0	1,082	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	782	1,082	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	476	14.8	1.45	6029	11,121	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	979	13.2	1.44	10621	24,526	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	564	14.8	1.45	0 - 6029'	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 (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' – 1082'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1082' – 11121'	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.
11121' – 24526'	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.

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.

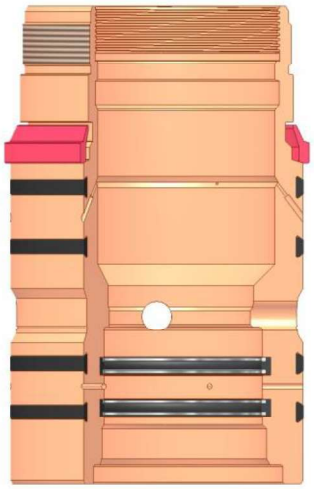
1. Cement Program

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

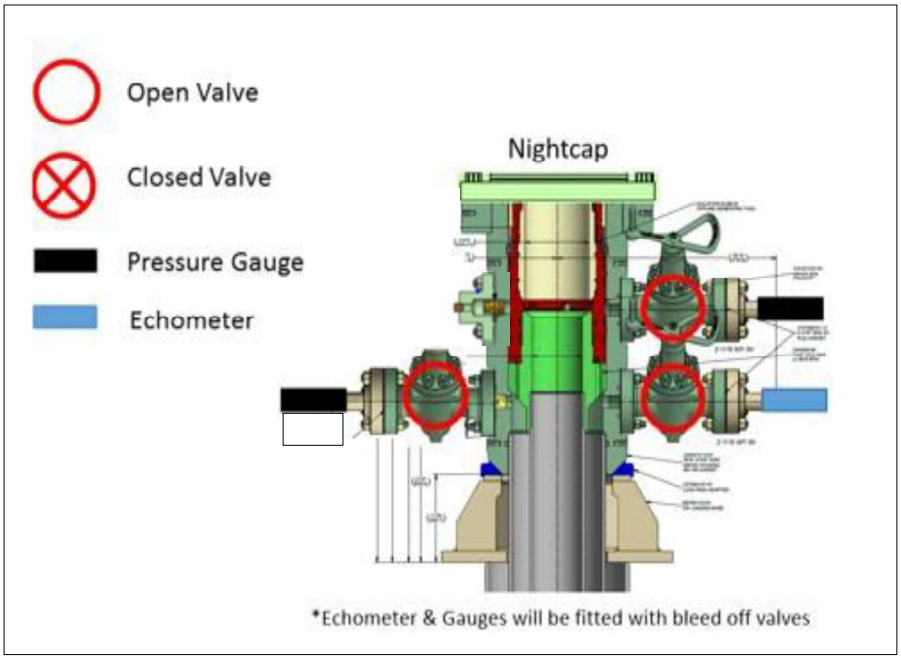
2. Offline Cementing Procedure

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 nippled 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.



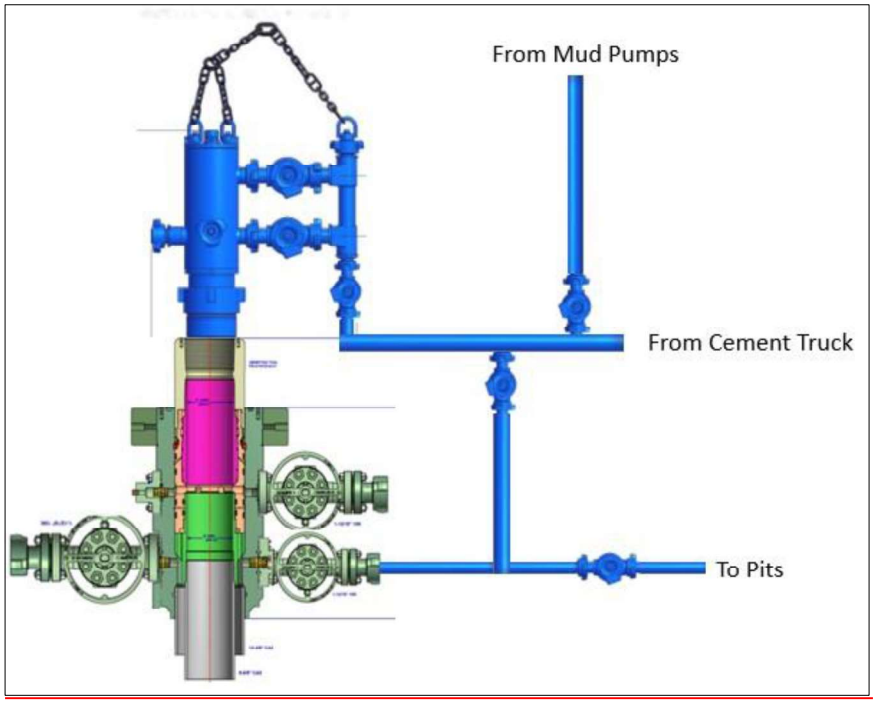
Annular packoff with both external and internal seals



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 nippling 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 nippled 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.

BLACK GOLD®

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

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

NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N:	IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	529480
QUANTITY:	1
SERIAL #:	74621 H3-012524-1

SIGNATURE: F. OSMOS

TITLE: QUALITY ASSURANCE

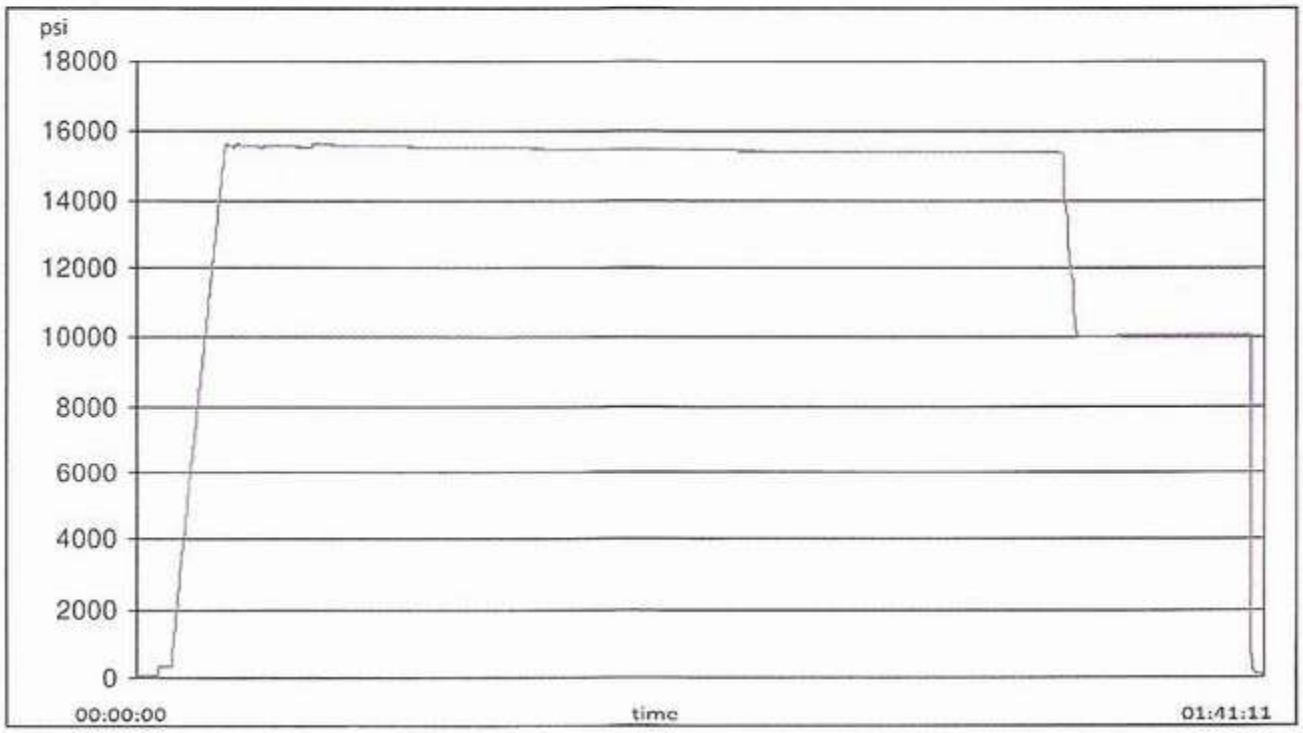
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



H3-15716

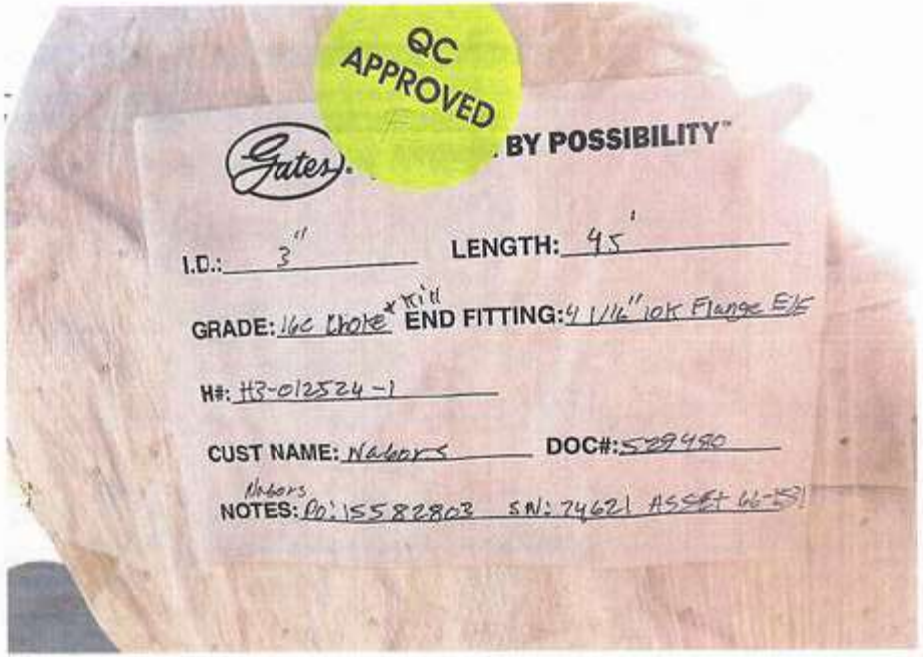
1/25/2024 11:48:06 AM

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



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

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

SUPO Data Report
07/30/2025

APD ID: 10400101684
Submission Date: 10/31/2024
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: BRUSHY DRAW 31-7 FEDERAL
Well Number: 101H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BRUSHY_DRAW_31_7_101H_ROAD_MAP_20250625131743.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 gullying, 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:** 101H

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:** 101H

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 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 115Kv 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:** 101H

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_101H_VICINITY_MAP_20250625131857.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:** 101H

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:** 101H

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: 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:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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

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

Waste type: GARBAGE

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

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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_101H_RL_20250410044344.pdf

BRUSHY_DRAW_31_7_101H_WELL_SITE_20250625132138.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_20250408121137.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 gullying, 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:** 101H

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, nave (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-nave plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.
Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation at the well pad

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

Existing Vegetation Community at the road

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

Existing Vegetation Community at the pipeline

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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:** 101H

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: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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:**

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

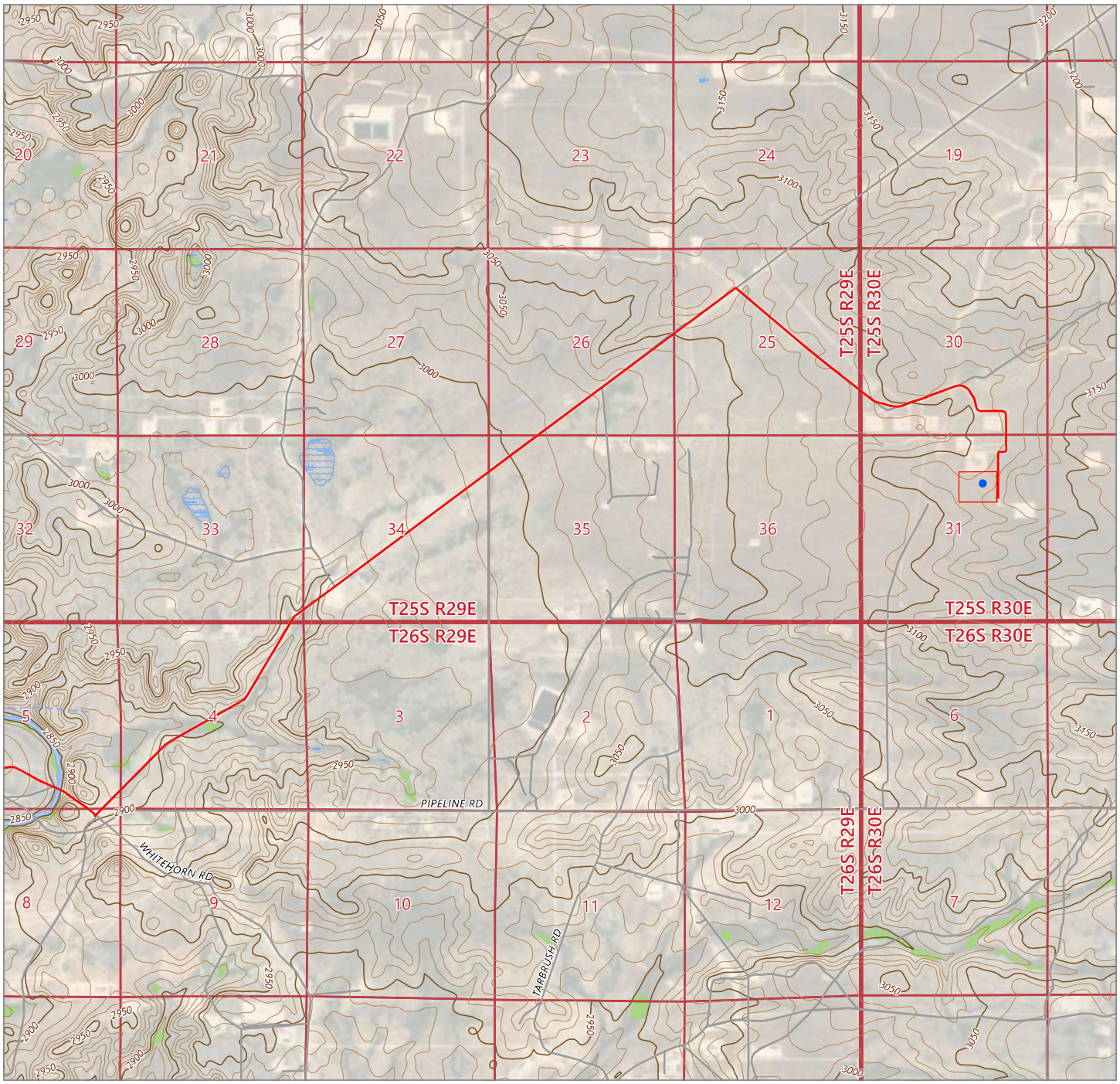
SUPO Additional Information: SUPO written for all wells in section/project area.

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_20250626091756.pdf



DRIVING DIRECTIONS TO LOCATION

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.

0 2,500 5,000 10,000
US Feet

N

LEGEND

- BRUSHY DRAW 31-7 FEDERAL 101H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 135'

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

A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO PERMIAN OPERATING, LLC.
BRUSHY DRAW 31-7 FEDERAL 101H

LOCATED 1379 FEET FROM THE NORTH LINE AND 1843 FEET FROM THE EAST LINE OF SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE:	SCALE:	PROJECT NUMBER:
AI	10/15/2024	1":5,000'	618.013014.02-01
DRAWN BY:	FIELD CREW:	REVISION NUMBER:	SHEET:
RE	RD	1	3 OF 3

P: 618.013 XTO Energy - NM\014 Brushy Draw Unit - Eddy\02 - 31-7\05\DRIVING DIRECTIONS\NM_WELL PLAT_PACKAGE\NM_WELL PLAT_PACKAGE.aprx

LEGEND

	SECTION LINE
	PROPOSED PAD
	PROPOSED ACCESS ROAD
	EXISTING ROAD
	EXISTING PAD
OHE OHE	EXISTING OVERHEAD ELECTRIC
FL FL	EXISTING FLOW LINE
◎	FOUND MONUMENT AS NOTED
FIP	FOUND IRON PIPE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS

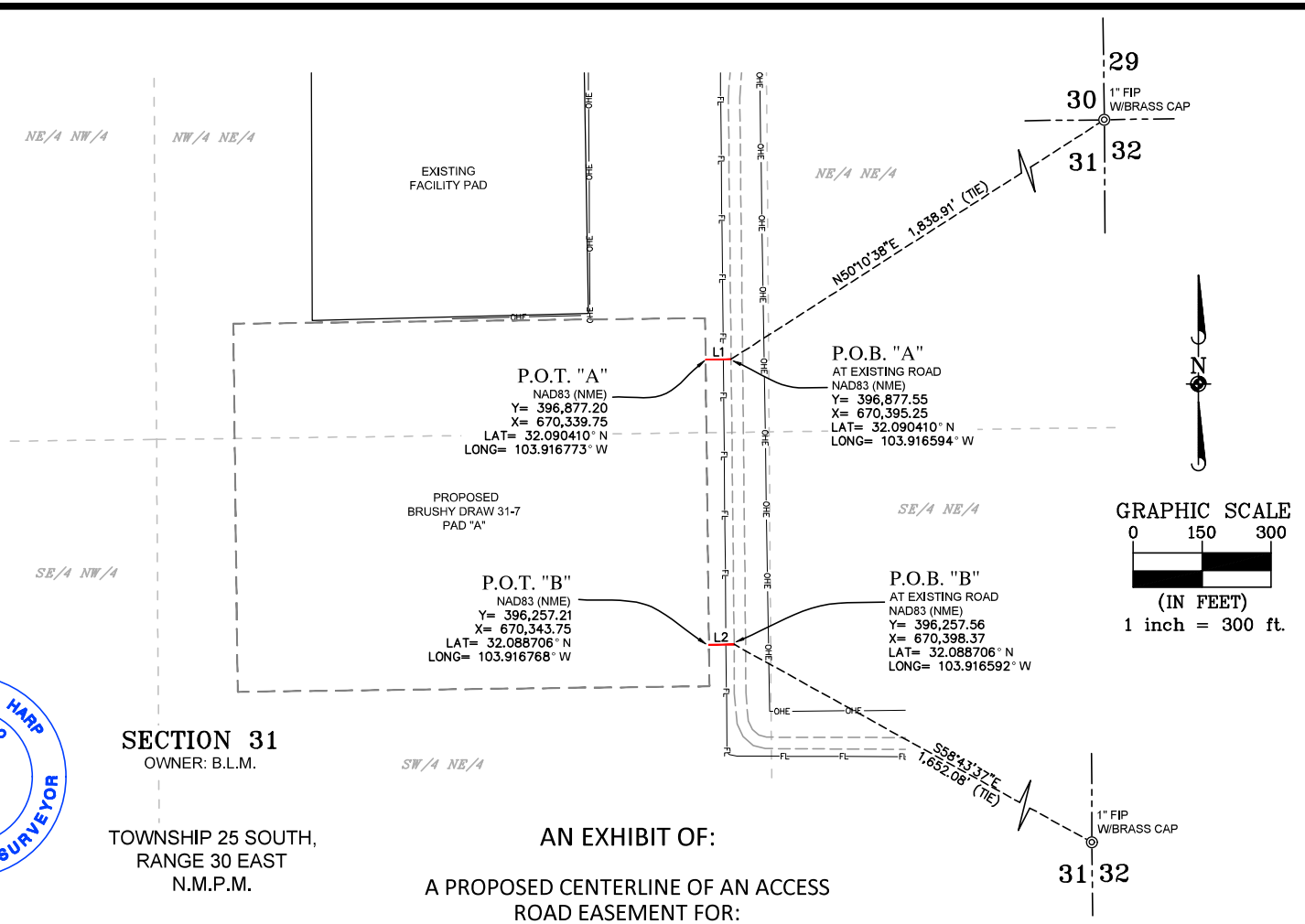
GENERAL NOTES

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 PREFORMED 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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR



SECTION 31
OWNER: B.L.M.

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

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

Manhard CONSULTING
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)

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	1 OF 1

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\DWG\Exhibits\ACCESS ROAD.dwg

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:

NW/4 NE/4 OF SECTION 31 = 55.50 FEET = 3.36 RODS = 0.04 OF AN ACRE
SW/4 NE/4 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 PREFORMED 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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR

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

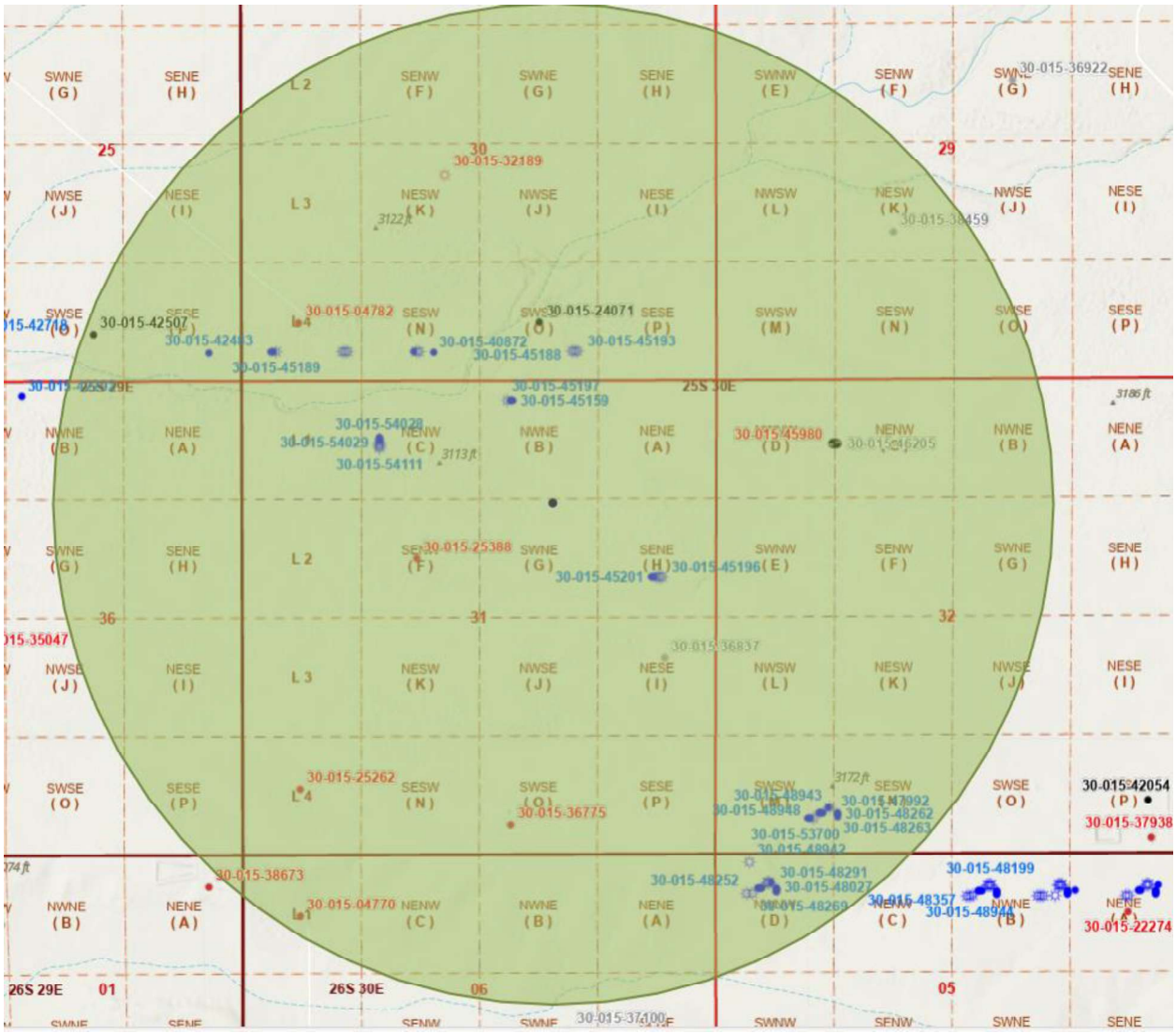
Manhard CONSULTING
505 Pecan Street, Ste 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors
Reg. No. F-10194754 (Surv), F-22053(Eng)

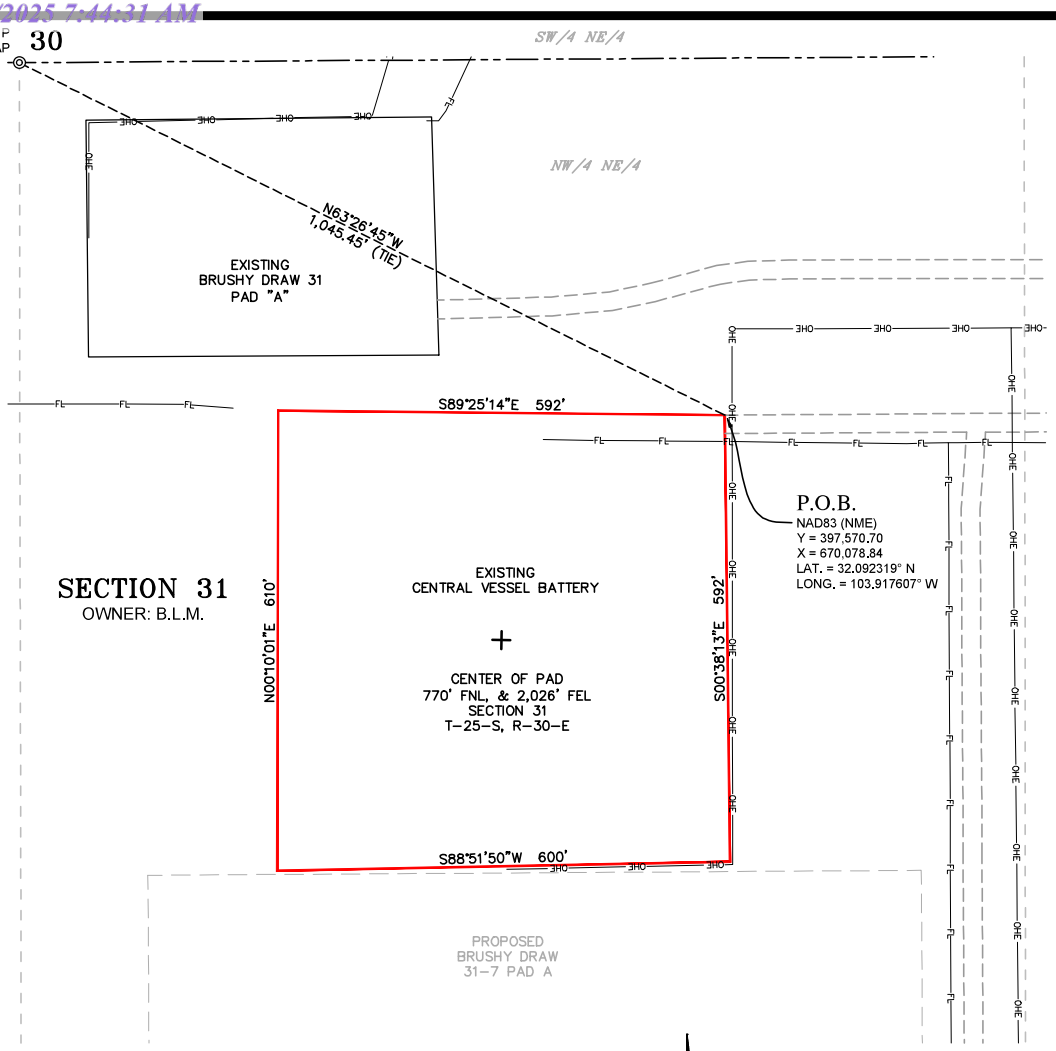
CHECKED BY:	DATE:	SCALE:	PROJECT NO.:	DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET:
DB	9/17/2024	1" = 300'	618.013014.02	AI	RD	NO	2 OF 2

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\DWG\Exhibits\ACCESS ROAD.dwg

Poker Lake Unit 31-7 BD

1-Mile Radius Map





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

N

GRAPHIC SCALE
0 100 200
(IN FEET)
1 inch = 200 ft.

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).

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

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 PREFORMED 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

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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

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

\618.013_XTO Energy - NM\014 Brushy Draw Unit - Eddy_01 - 30-31 Fed\DWG\Exhibits\EXISTING FACILITY PAD.dwg

LEGEND

	SECTION LINE
	PROPOSED PAD
	PROPOSED ACCESS ROAD
	EXISTING ROAD
	EXISTING PAD
OHE	EXISTING OVERHEAD ELECTRIC
FL	EXISTING FLOW LINE
◎	FOUND MONUMENT AS NOTED
FIP	FOUND IRON PIPE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS

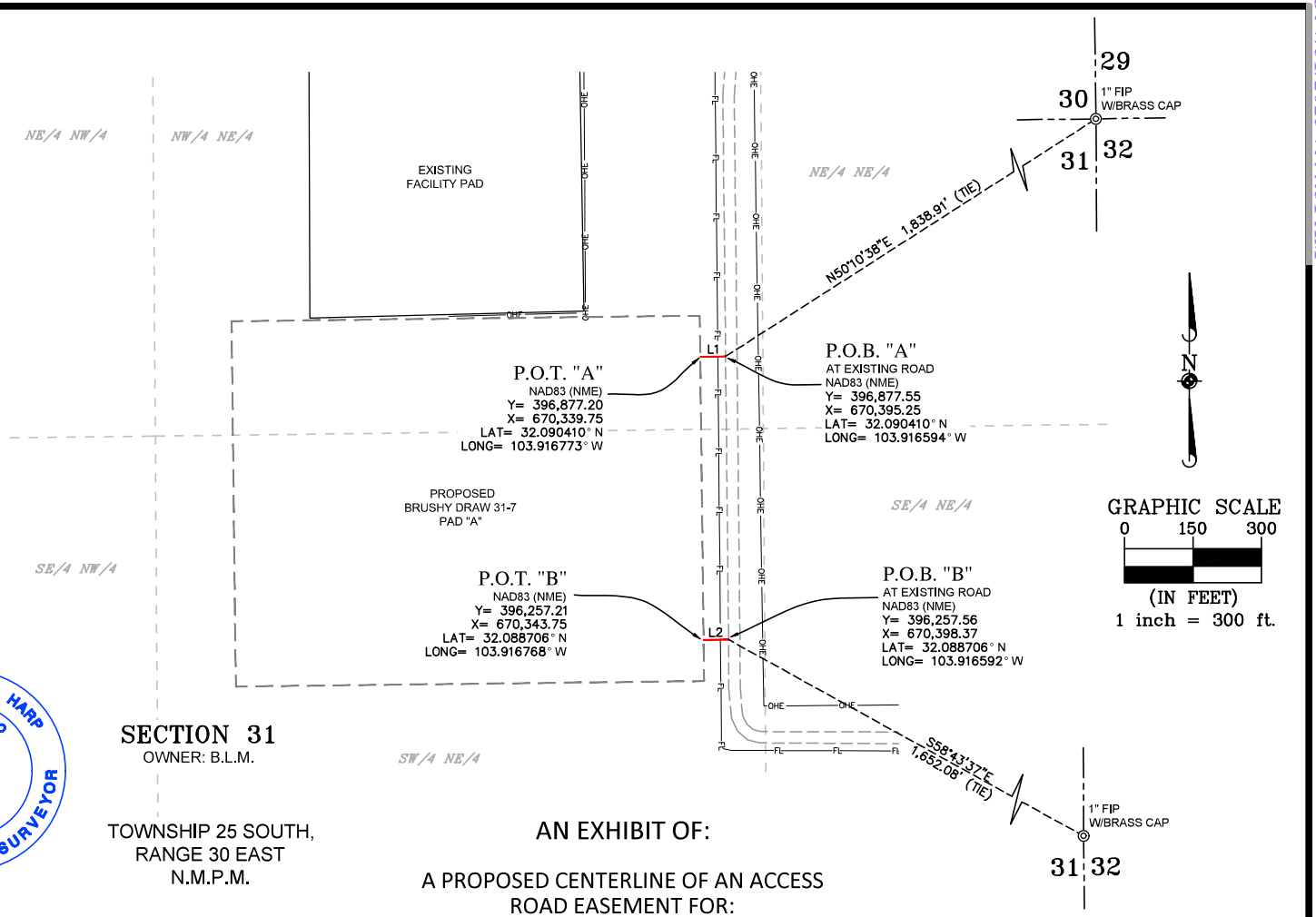
GENERAL NOTES

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 PREFORMED 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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR



SECTION 31
OWNER: B.L.M.

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

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

Manhard CONSULTING
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)

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	1 OF 1

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\DWG\Exhibits\ACCESS ROAD.dwg

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:

NW/4 NE/4 OF SECTION 31 = 55.50 FEET = 3.36 RODS = 0.04 OF AN ACRE
SW/4 NE/4 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 PREFORMED 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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR

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

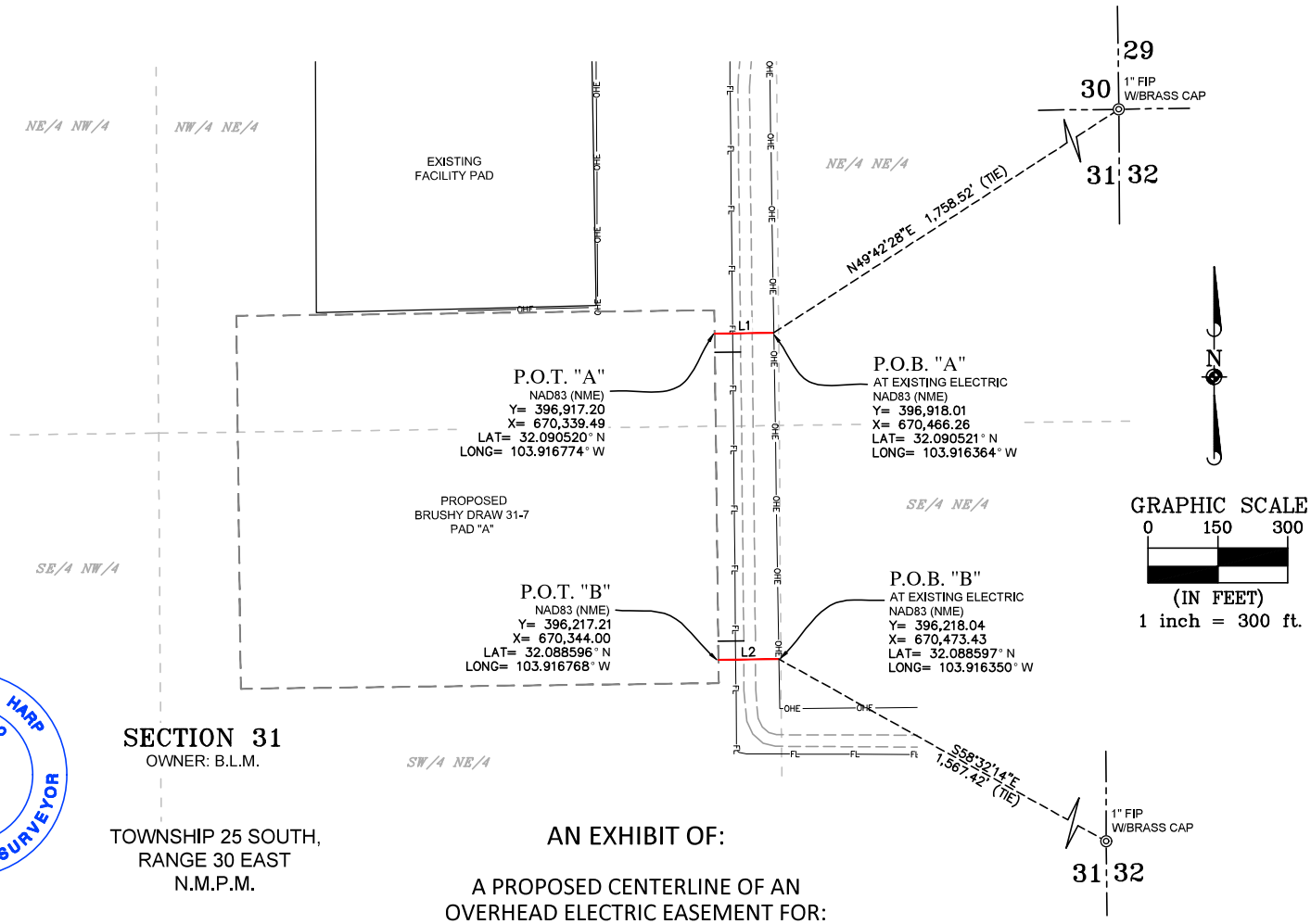
Manhard CONSULTING
505 Pecan Street, Ste 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors
Reg. No. F-10194754 (Surv), F-22053(Eng)

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

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\DWG\Exhibits\ACCESS ROAD.dwg

LEGEND

	SECTION LINE
	PROPOSED PAD
	PROPOSED ACCESS ROAD
	PROPOSED OVERHEAD ELECTRIC
	EXISTING ROAD
	EXISTING PAD
OHE OHE	EXISTING OVERHEAD ELECTRIC
FL FL	EXISTING FLOW LINE
◎	FOUND MONUMENT AS NOTED
FIP	FOUND IRON PIPE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS



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 PREFORMED 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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR

SECTION 31
OWNER: B.L.M.

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

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

Manhard CONSULTING
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)

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	1 OF 1

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\DWG\Exhibits\OVERHEAD ELECTRIC.dwg

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:

NW/4 NE/4 OF SECTION 31 = 126.78 FEET = 7.68 RODS = 0.15 OF AN ACRE
SW/4 NE/4 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 PREFORMED 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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR

AN EXHIBIT OF:

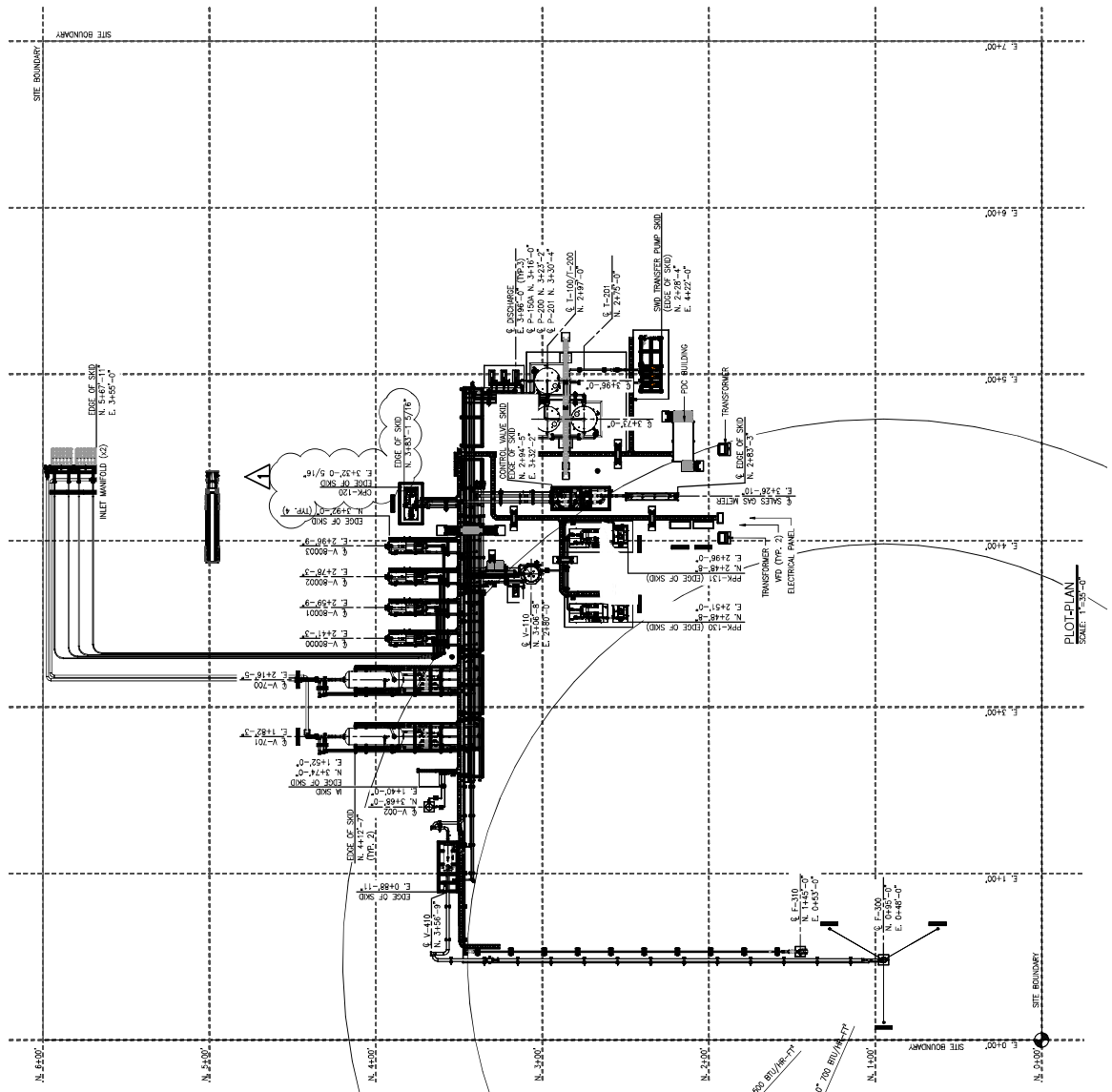
A PROPOSED CENTERLINE OF AN
OVERHEAD ELECTRIC EASEMENT FOR:
XTO ENERGY, INC.
BRUSHY DRAW 31-7

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

Manhard CONSULTING
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)

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

P:\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31–7\DWG\Exhibits\OVERHEAD ELECTRIC.dwg



PLOT-PLAN
SCALE: 1"=35'-0"

PLOT PLAN
DELAWARE BASIN
POKER LAKE
UNIT 30-31

ENGINEER:	TETRA TECH/LDS	DATE:	06/25/2021
PROJ. MGR:	CHRIS CUNNINGHAM	DWG NO.	PL30 31-20BD-LDEQL-DB-1000
DRAFTED BY:	CORY EVANS	CAD FILE NO.	PL30 31-20BD-LDEQL-DB-1000
DOC TYPE:	-		

XTO ENERGY
An Exxon Mobil Subsidiary

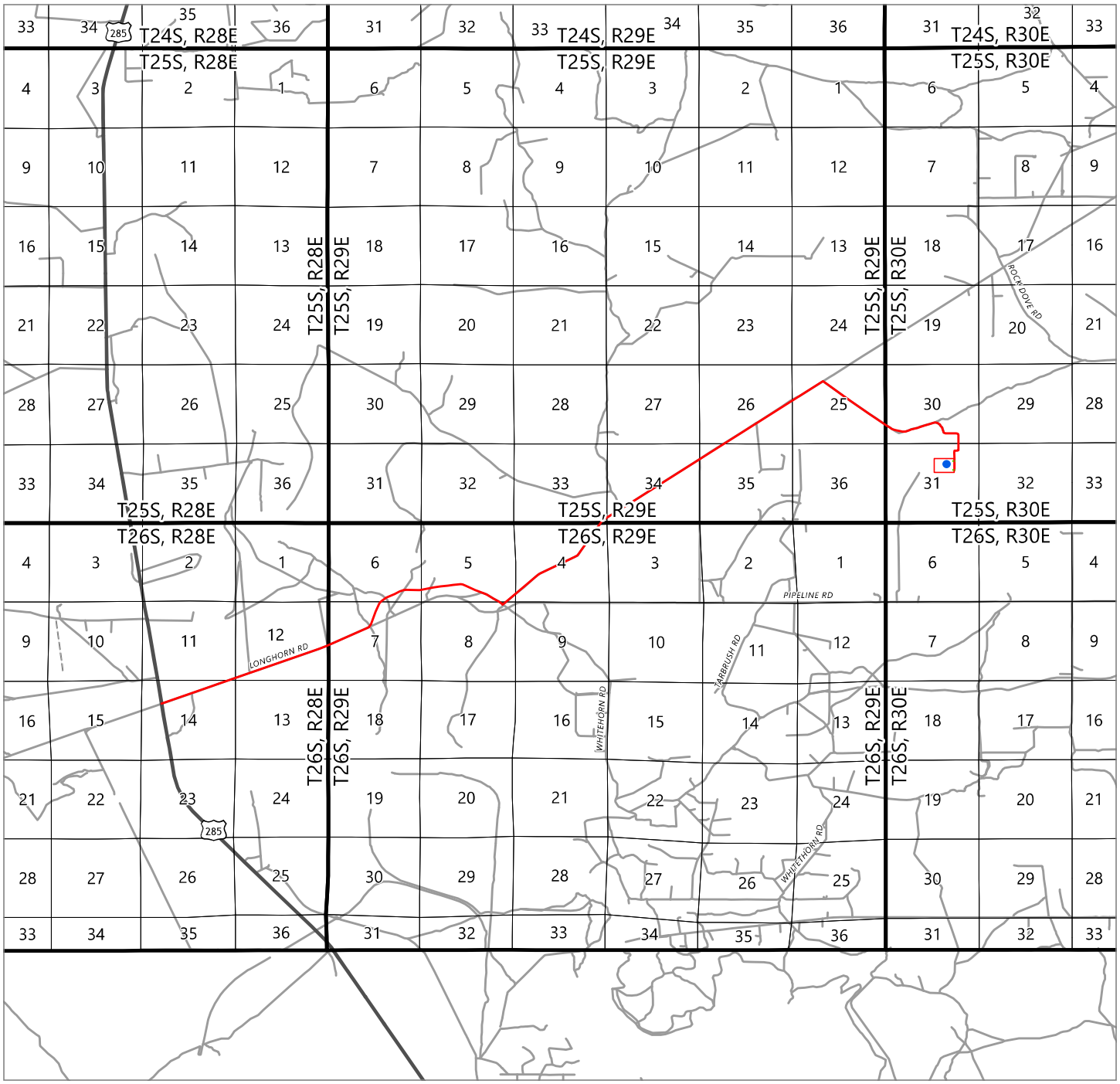
DATE	REV	DESCRIPTION	BY	APPR	ENG
06/25/2021	1	REVISED ISSUED FOR CONSTRUCTION	CLE	CLE	RFD
06/25/2021	0	ISSUED FOR CONSTRUCTION	CLE	JJB	JLG

DWG NUMBER	TITLE
-	REFERENCE DRAWINGS

NOTES:
1.

PLANT NORTH

IES ENGINEERING C:\Users\CORY.EVANS\Desktop\XTO_30-31\Piping\PL30 31-20BD-LDEQL-DB-1000.dwg



DRIVING DIRECTIONS TO LOCATION

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.

0 5,000 10,000 20,000
US Feet

N

LEGEND

- BRUSHY DRAW 31-7 FEDERAL 101H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 135'

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

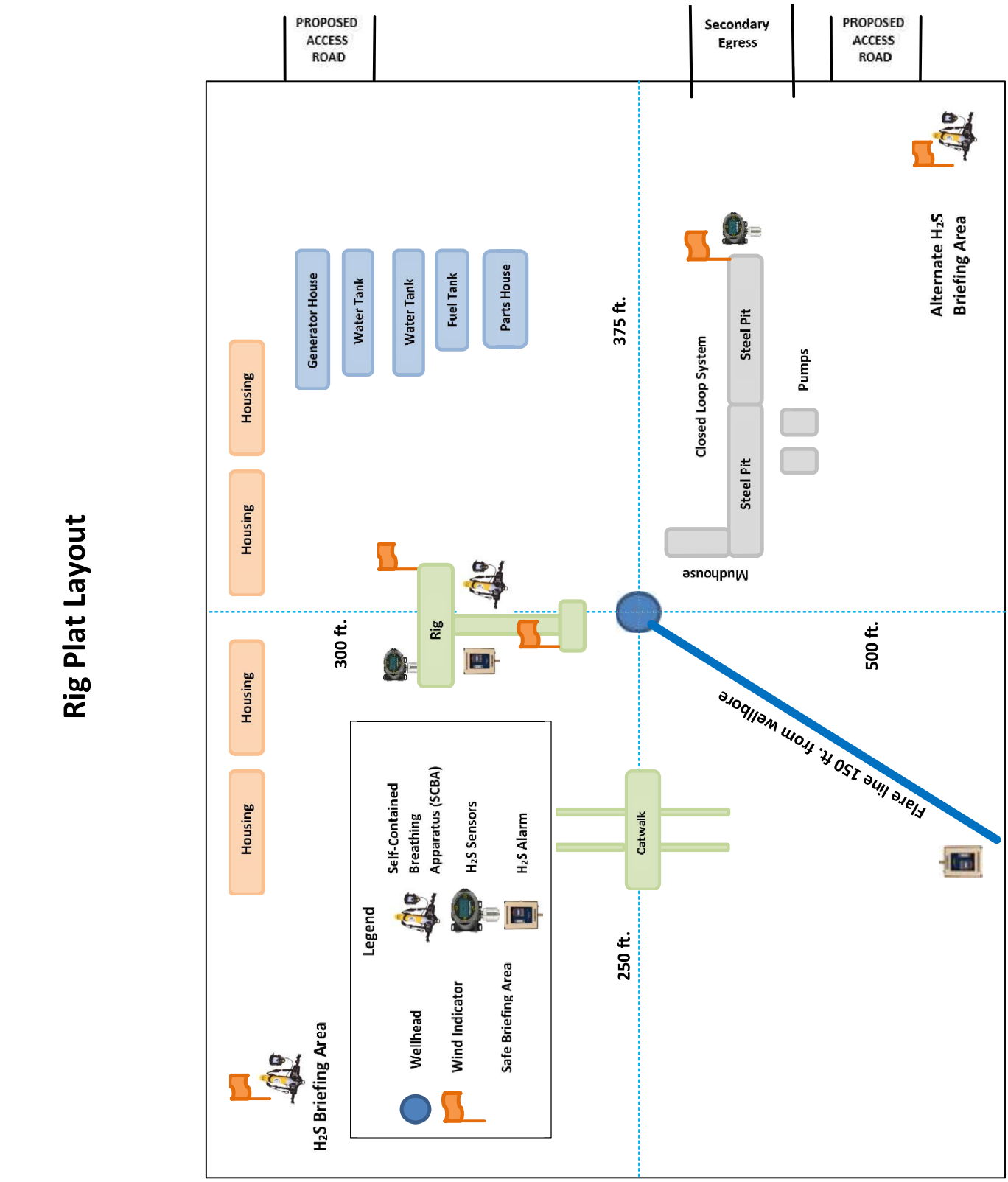
A VICINITY MAP FOR XTO PERMIAN OPERATING, LLC.
BRUSHY DRAW 31-7 FEDERAL 101H

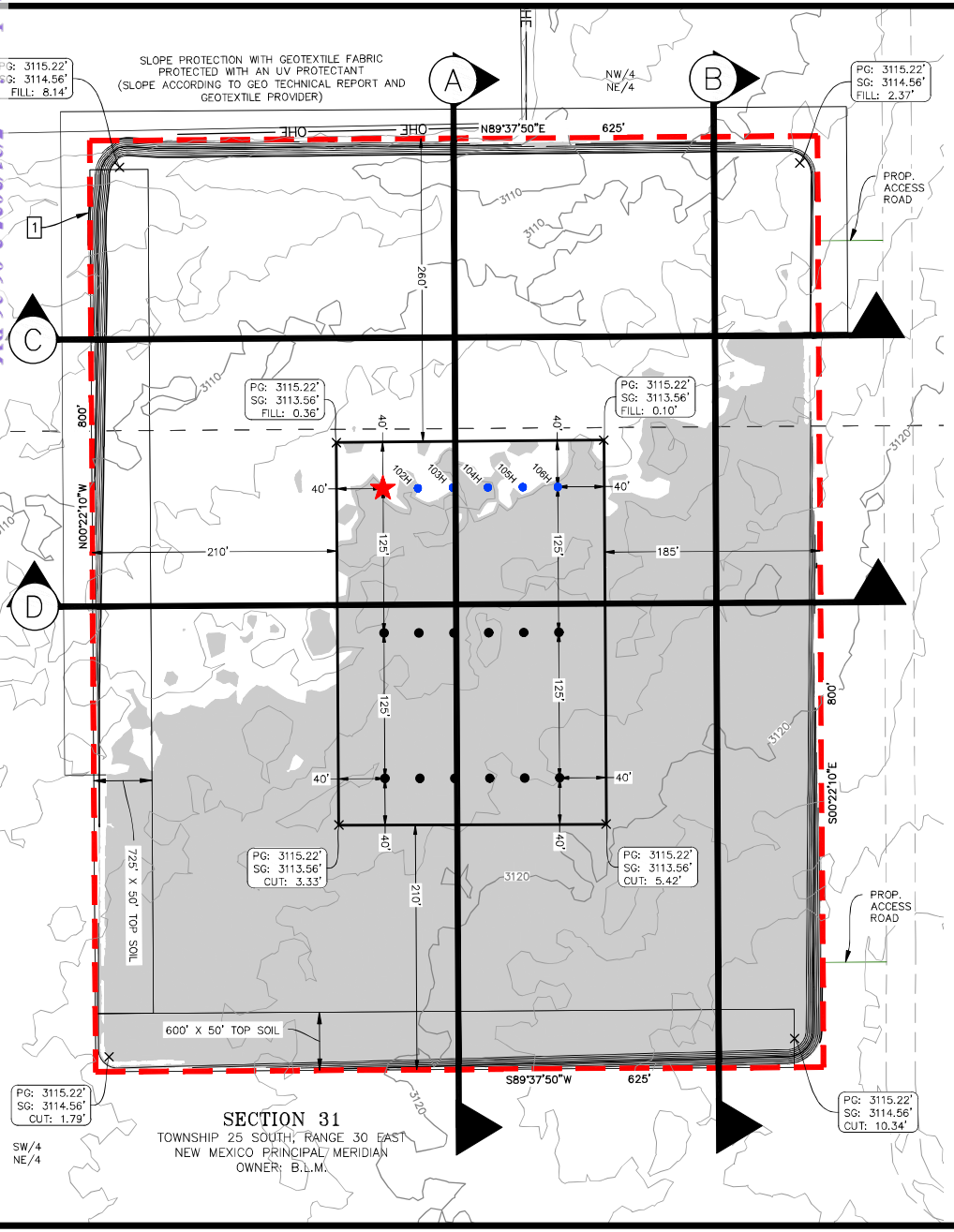
LOCATED 1379 FEET FROM THE NORTH LINE AND 1843 FEET FROM THE EAST LINE OF SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

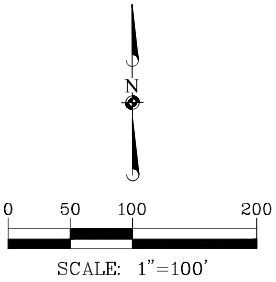
CHECKED BY:	DATE:	SCALE:	PROJECT NUMBER:
AI	10/15/2024	1":10,000'	618.013014.02-01
DRAWN BY:	FIELD CREW:	REVISION NUMBER:	SHEET:
RE	RD	1	2 OF 3

P:\618.013014.02-01 XTO Eddy - NM\014 Brushy Draw Unit - Eddy\A02 - 31-7\DRIVING DIRECTIONS\NM_WELL PLAT_PACKAGE\NM_WELL PLAT_PACKAGE.mxd

Rig Plat Layout







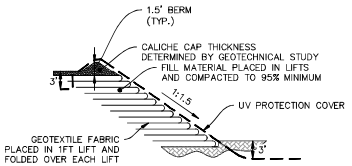
GENERAL NOTES:

1. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED BY AASHTO METHOD T-99. COMPACTION TESTING SHALL BE DONE EVERY 10" ON ALL STRONGBACK AREAS.
2. STRONGBACK AREA SHALL BE EXCAVATED 12" BELOW SUBGRADE AND BACKFILLED TO FINAL GRADE WITH 20" OF COMPACTED CALICHE.
3. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
4. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
5. REFER TO TOPOGRAPHICAL AND ACCESS ROAD MAP FOR PROPOSED ROAD LOCATION.

LEGEND

- CUT AREA
- STRONGBACK AREA
- PROPOSED PAD
- PERMITTED WELL LOCATION
- TBD WELL
- FEATURE WELL LOCATION
- 1 BIGGEST FILL POINT
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING ROAD

XTO Exhibit - Mega Pad	
Cut:	32,500 CY
Fill:	32,500 CY
Excess:	0 CY
Topsoil/Stockpile (6"):	9,300 CY
Subsoil/Stockpile (6"):	9,300 CY
Allowable Topsoil:	8,200 CY
Allowable Subsoil:	6,800 CY
Total Caliche:	14,100 CY
Cut/Fill Factor:	1.00
Max Disturbance:	11.28 ACRES
Pad Area:	11.48 ACRES
% Disturbed	98.27 %



REINFORCED SOIL SLOPE WALL
N.T.S.
x12 LIFT AT LARGEST FILL AREA

FEATURE WELL LOCATION DETAIL

BRUSHY DRAW 31-7 FEDERAL #101H
1,379' FNL & 1,843' FEL
ELEV.= 3,113'
NAD 83 (NME)
Y=396,664.3
X=669,966.1
LAT.=32.089829°N
LONG.=103.917983°W
NAD 27 (NME)
Y=396,606.2
X=628,781.1
LAT.=32.089704°N
LONG.=103.917500°W

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

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 PREFORMED 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.

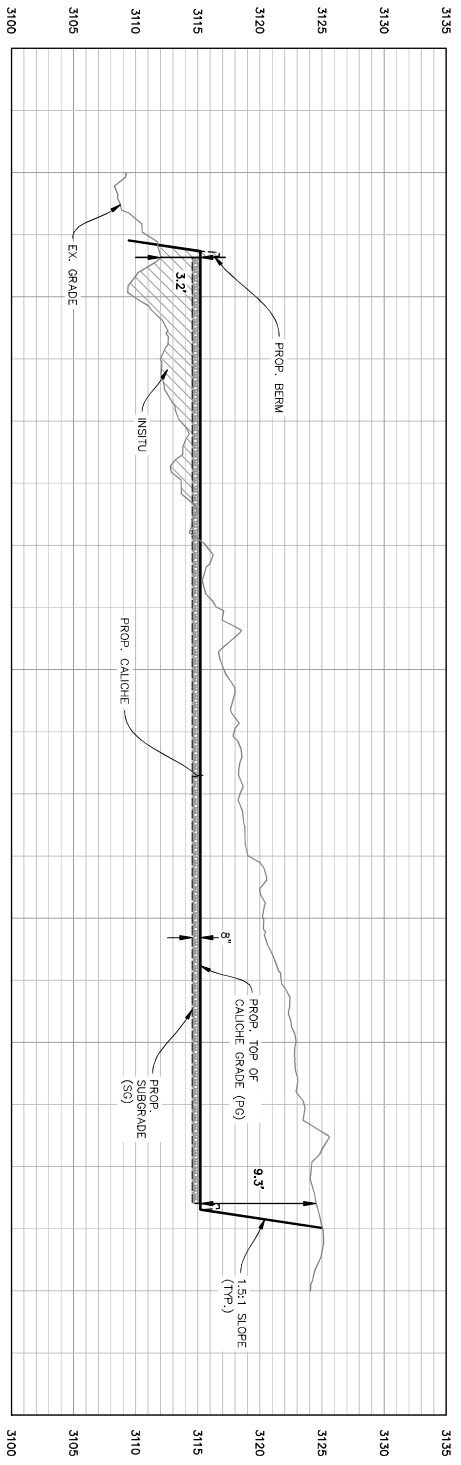
MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786

PAD CUT AND FILL EXHIBIT
BRUSHY DRAW 31-7 FEDERAL #101H
XTO PERMIAN OPERATING, LLC.
SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

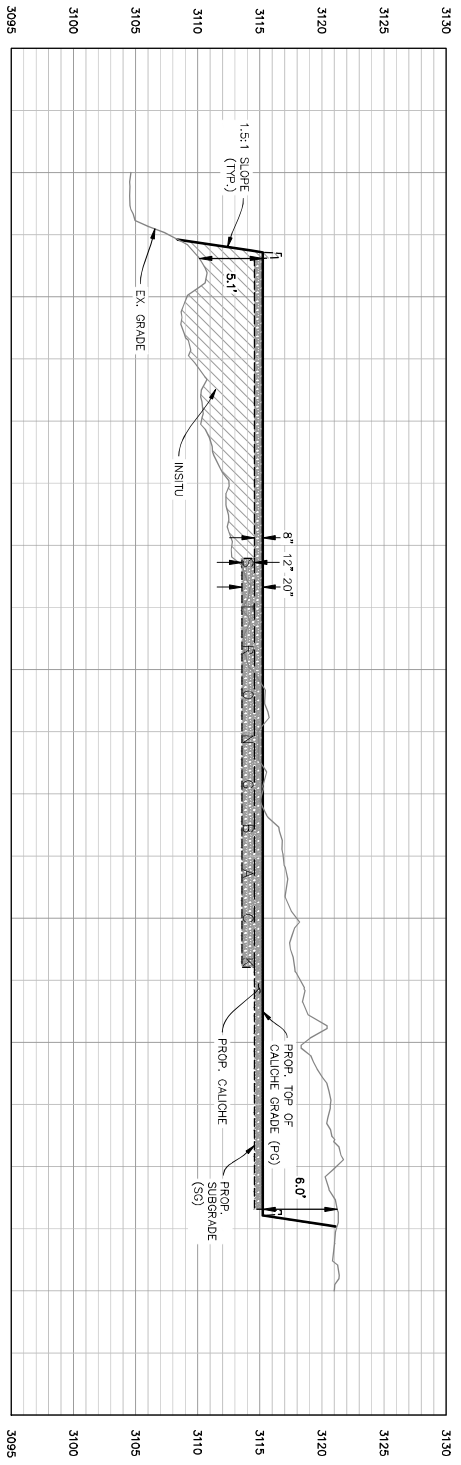
DRAWN BY:	RELEASE DATE:	SCALE:	CODE:
AI	06/25/2025		

JESSEREND CONRAD NEW MEXICO 27345 PROFESSIONAL ENGINEER

Manhard CONSULTING
505 Pecan Street, Suite 201, Fort Worth, TX 76102 ph.817.885.5344 manhard.com
Civil Engineers | Surveyors | Water Resource Engineers | Water & Waste Water Engineers
Construction Managers | Environmental Scientists | Landscape Architects | Planners



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



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

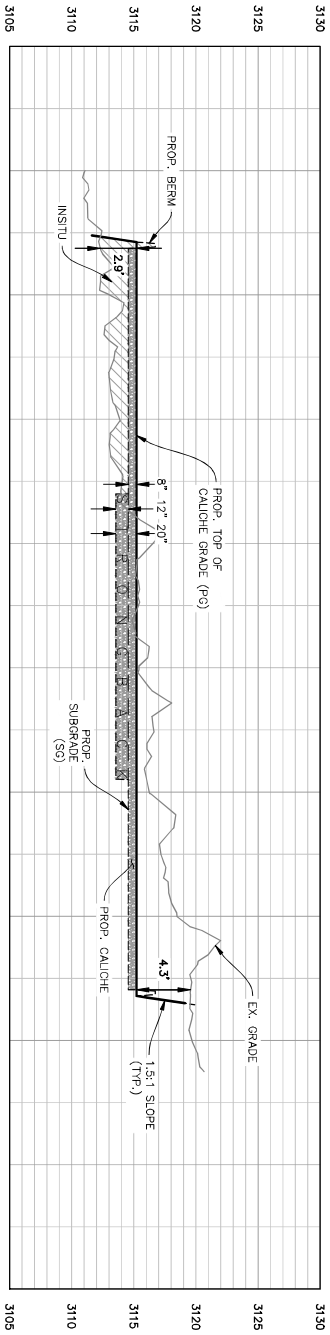
Manhard CONSULTING
505 Pecan Street, Suite 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com
Civil Engineers | Surveyors | Water Resource Engineers | Water & Waste Water Engineers
Construction Managers | Environmental Scientists | Landscape Architects | Planners

PAD CUT AND FILL EXHIBIT
BRUSHY DRAW UNIT 31-7 PAD A

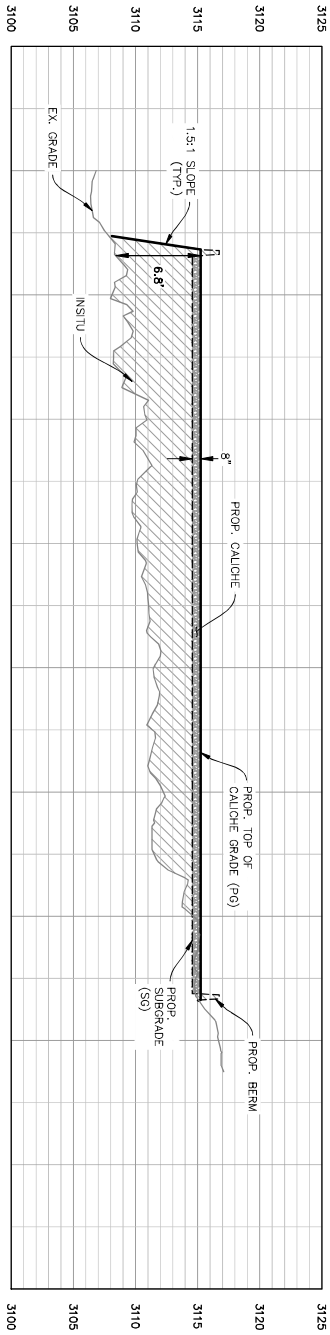
XTO PERMIAN OPERATING, LLC.

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

DRAWN BY:	RELEASE DATE:	SCALE:	CODE:
AI	06/24/2025	1" = 100'	618.013014.02



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



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

Manhard CONSULTING
505 Pecan Street, Suite 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com
Civil Engineers | Surveyors | Water Resource Engineers | Water & Waste Water Engineers
Construction Managers | Environmental Scientists | Landscape Architects | Planners

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:	RELEASE DATE:	SCALE:	CODE:
AI	06/24/2025	1" = 100'	618.013014.02

SECTION 31
OWNER: B.L.M.

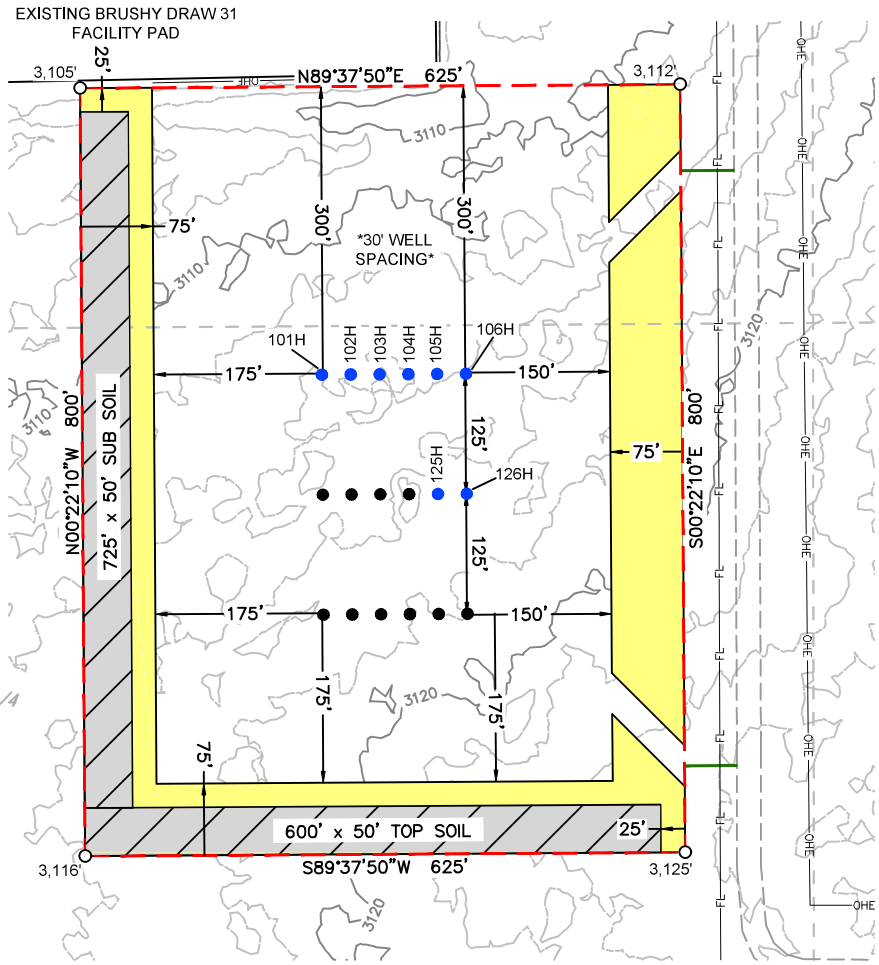
NW/4 NE/4

SW/4 NE/4

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

N

GRAPHIC SCALE
0 100 200
(IN FEET)
1 inch = 200 ft.



DRIVING DIRECTION TO LOCATION

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.

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

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).

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

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 PREFORMED 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

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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

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

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

P:\618.013 XTO Energy - NM\014 Brushy Draw Unit - Eddy\.02 - 31-7\DWG\To-Client\BD 31-7 PAD A INTERIM REC.dwg

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.

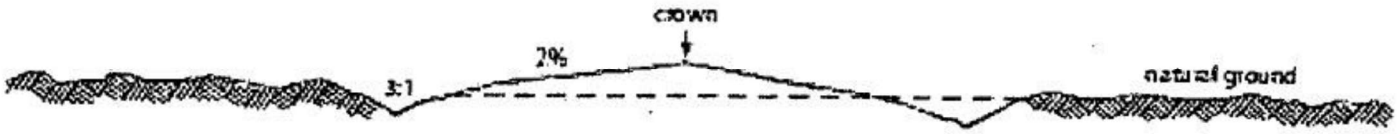
If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

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 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 ~1.5bbls 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.

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 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.
- **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 CERLCA includes any ‘hazardous waste” as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
    iii. No hazardous substances or wastes will be stored on the location after completion of the well.
    iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
    v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. “Other than Major Events” will be reported in writing within 15 days.

9. Well Site Layout

A. **Rig Plat Diagrams**: 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) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

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

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

Seeding:

- Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will

be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. Surface Ownership

A. Within the Poker Lake Unit 31 - 7 Brushy Draw project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.

B. The surface is multiple use with the primary uses of the region for grazing and to produce oil and gas.

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

- **Traffic**. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

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.comPhone: (432) 999-8069

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

AFMSS

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

PWD Data Report
07/30/2025

APD ID: 10400101684 **Submission Date:** 10/31/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL **Well Number:** 101H

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:

Decribe 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:** 101H

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:

Decribe 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:** 101H

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:** 101H

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

AFMSS

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

Bond Info Data

07/30/2025

APD ID: 10400101684

Submission Date: 10/31/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BRUSHY DRAW 31-7 FEDERAL

Well Number: 101H

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 / 32.089829 / -103.917983

County or Parish/State: EDDY / NM

Well Number: 101H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM102033

Unit or CA Name:

Unit or CA Number: NMNM143156

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2866092

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 07/30/2025

Time Sundry Submitted: 09:55

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 101H" to "BRUSHY DRAW 31-7 FED COM 101H". C102 reflecting the newly proposed name is attached. The APD ID for this well is 10400101684.

NOI Attachments

Procedure Description

Brusy_Draw_31_7_Fed_Com_101H_20250730095355.pdf

Well Name: BRUSHY DRAW 31-7 FEDERAL	**Well Location:** T25S / R30E / SEC 31 / SWNE / 32.089829 / -103.917983	**County or Parish/State:** EDDY / NM
Well Number: 101H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM102033	**Unit or CA Name:**	**Unit or CA Number:** NMNM143156
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 09:54 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

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM102033

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. NMNM143156

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No. BRUSHY DRAW 31-7 FEDERAL/101H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No.

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

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

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

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

11. Country or Parish, State EDDY/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 101H" to "BRUSHY DRAW 31-7 FED COM 101H".
C102 reflecting the newly proposed name is attached.
The APD ID for this well is 10400101684.

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

Title Regulatory Analyst

Signature (Electronic Submission)

Date 07/30/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Land Law Examiner

Date 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 / 1843 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.089829 / LONG: -103.917983 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 1 / 330 FNL / 787 FWL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.092697 / LONG: -103.926747 (TVD: 11460 feet, MD: 12396 feet)

BHL: LOT 2 / 2477 FNL / 344 FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057574 / LONG: -103.92812 (TVD: 11460 feet, MD: 24526 feet)

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	Pool Code	Pool Name
30-015-57084	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
337545	BRUSHY DRAW 31-7 FED COM	101H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,113'

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	1,843 FEL	32.089829	-103.917983	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	7	26S	30E	2	2,477 FNL	344 FWL	32.057574	-103.928120	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
803.53	INFILL	30-015-45186	N	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
	31	25S	30E	1	257 FNL	814 FWL	32.092896	-103.926661	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	31	25S	30E	1	330 FNL	787 FWL	32.092697	-103.926747	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	7	26S	30E	2	2,327 FNL	344 FWL	32.057986	-103.928121	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒Horizontal ☐Vertical	Ground Elevation
NMNM143156		3,113'

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 and Seal of Professional Surveyor

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

DN 618.013014.02-01

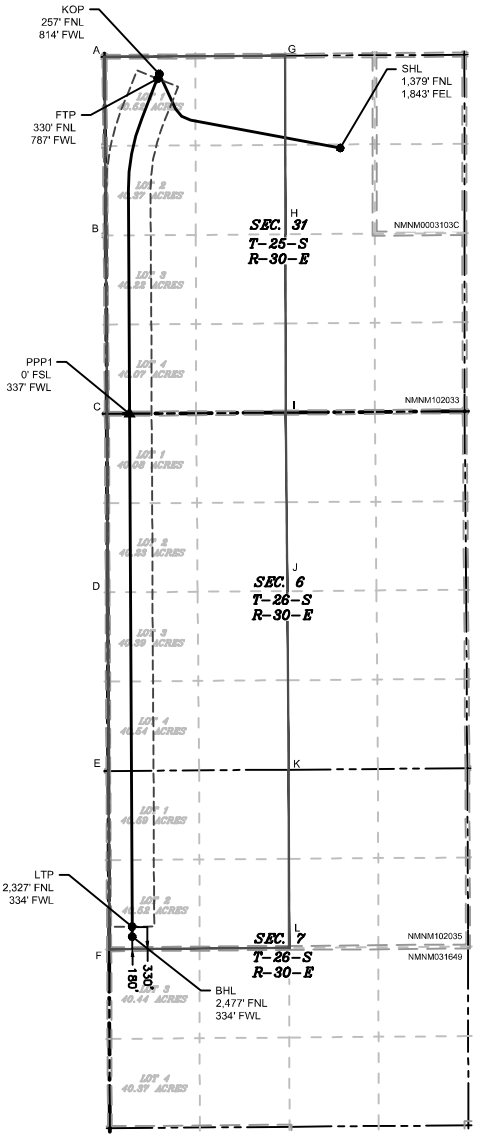
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

\618.013 XTO Energy - NM\014 Brushy Draw Unit - Eddy\02 - 31-7\Wells\-01 - 101H\DWG\101H C-102.dwg

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	669,966.1	396,664.3	32.089829	-103.917983	628,781.1	396,606.2	32.089704	-103.917500
KOP	667,274.3	397,769.8	32.092896	-103.926661	626,089.4	397,711.6	32.092771	-103.926177
FTP	667,247.9	397,697.3	32.092697	-103.926747	626,063.0	397,639.1	32.092572	-103.926263
LTP	666,869.9	385,068.7	32.057986	-103.928121	625,684.6	385,010.9	32.057861	-103.927639
BHL	666,870.6	384,918.7	32.057574	-103.928120	625,685.3	384,860.9	32.057449	-103.927638
PPP 1	666,831.2	392,708.5	32.078987	-103.928153	625,646.1	392,650.4	32.078862	-103.927670

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	666,458.5	398,022.1	625,273.6	397,963.9
B	666,476.1	395,364.1	625,291.1	395,306.0
C	666,493.7	392,706.1	625,308.6	392,648.0
D	666,504.2	390,050.3	625,319.1	389,992.3
E	666,515.8	387,393.2	625,330.6	387,335.3
F	666,527.4	384,736.1	625,342.1	384,678.3
G	669,143.7	398,038.1	627,958.7	397,979.9
H	669,148.4	395,382.1	627,963.3	395,323.9
I	669,153.0	392,724.9	627,967.9	392,666.9
J	669,175.5	390,069.6	627,990.3	390,011.7
K	669,197.9	387,411.9	628,012.6	387,354.0
L	669,204.1	384,756.6	628,018.7	384,698.7

\618.013 XTO Energy – NM\014 Brushy Draw Unit – Eddy\.02 – 31-7\Wells\-01 – 101H\DWG\101H C-102.dwg

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

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 480691
	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.	7/31/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/31/2025
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.	7/31/2025
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.	7/31/2025