AFMSS

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

Application for Permit to Drill

# APD Package Report

Date Printed:

| | |
|---|---|
| APD ID: | Well Status: |
| APD Received Date: | Well Name: |
| Operator: | Well Number: |

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  -- Casing Spec Documents: 2 file(s)
  -- Casing Taperd String Specs: 1 file(s)
  -- Casing Design Assumptions and Worksheet(s): 1 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 4 file(s)
  -- Other Variances: 4 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- New Road Map: 1 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 4 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Well Site Layout Diagram: 2 file(s)
  -- Recontouring attachment: 2 file(s)
  -- Other SUPO Attachment: 1 file(s)

- PWD Report
- PWD Attachments

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-- None

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

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.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-58125

| 3a. Address | 3b. Phone No. *(include area code)* | 10. Field and Pool, or Exploratory |
|---|---|---|
| | | |

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

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

| 14. Distance in miles and direction from nearest town or post office* | 12. County or Parish | 13. State |
|---|---|---|
| | | |

| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of acres in lease | 17. Spacing Unit dedicated to this well |
|---|---|---|
| | | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. in file |
| | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will start* | 23. Estimated duration |
| | | |

## 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 | Name *(Printed/Typed)* | Date |
|---|---|---|
| | | |

Title

| Approved by *(Signature)* | Name *(Printed/Typed)* | Date |
|---|---|---|
| | | |
| Title | 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: 09/08/2025**

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## 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.



Released to Imaging: 4/27/2026 7:03:45 AM

**Approval Date: 09/08/2025**

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## Additional Operator Remarks

### Location of Well

0. SHL: SWNW / 1815 FNL / 420 FWL / TWSP: 25S / RANGE: 30E / SECTION: 15 / LAT: 32.132701 / LONG: -103.876233 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 360 FWL / TWSP: 25S / RANGE: 30E / SECTION: 10 / LAT: 32.137964 / LONG: -103.876425 ( TVD: 11047 feet, MD: 11700 feet )

BHL: NWSW / 2627 FSL / 360 FWL / TWSP: 24S / RANGE: 30E / SECTION: 34 / LAT: 32.174236 / LONG: -103.876346 ( TVD: 11047 feet, MD: 24808 feet )

## BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: MHUGHES@BLM.GOV

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**PECOS DISTRICT**

**SURFACE USE**

**CONDITIONS OF APPROVAL**

| | |
|---|---|
| OPERATOR'S NAME: | XTO Permian Operating, LLC |
| LEASE NO.: | NMNM071016X |
| COUNTY: | Eddy County, New Mexico |

Wells:

Poker Lake Unit 14-35 BD #101H
Poker Lake Unit 14-35 BD #102H
Poker Lake Unit 14-35 BD #103H
Poker Lake Unit 14-35 BD #104H
Poker Lake Unit 14-35 BD #105H
Poker Lake Unit 14-35 BD #106H
Poker Lake Unit 14-35 BD #107H
Poker Lake Unit 14-35 BD #108H
Poker Lake Unit 14-35 BD #109H
Poker Lake Unit 13-36 BD #110H
Poker Lake Unit 13-36 BD #111H
Poker Lake Unit 13-36 BD #112H
Poker Lake Unit 14-35 BD #201H
Poker Lake Unit 14-35 BD #202H
Poker Lake Unit 14-35 BD #203H
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Poker Lake Unit 14-35 BD #205H
Poker Lake Unit 14-35 BD #206H
Poker Lake Unit 14-35 BD #207H
Poker Lake Unit 14-35 BD #208H
Poker Lake Unit 14-35 BD #209H
Poker Lake Unit 13-36 BD #210H
Poker Lake Unit 13-36 BD #211H
Poker Lake Unit 13-36 BD #212H
Poker Lake Unit 14-35 BD #301H
Poker Lake Unit 14-35 BD #302H
Poker Lake Unit 14-35 BD #303H





**Approval Date: 09/08/2025**

Poker Lake Unit 14-35 BD #304H
Poker Lake Unit 14-35 BD #305H
Poker Lake Unit 14-35 BD #306H
Poker Lake Unit 14-35 BD #307H
Poker Lake Unit 14-35 BD #308H
Poker Lake Unit 14-35 BD #309H
Poker Lake Unit 14-26 BD #310H
Poker Lake Unit 13-36 BD #311H
Poker Lake Unit 13-36 BD #312H
Poker Lake Unit 14-26 BD # 401H
Poker Lake Unit 14-26 BD # 402H
Poker Lake Unit 14-26 BD # 403H
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Poker Lake Unit 15-27 BD #101H
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**Approval Date: 09/08/2025**

Poker Lake Unit 15-34 BD #105H
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Poker Lake Unit 15-27 BD #505H




**Approval Date: 09/08/2025**

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**Approval Date: 09/08/2025**

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Poker Lake Unit 16-21 BD # 101H
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Poker Lake Unit 16-21 BD # 105H
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**Approval Date: 09/08/2025**

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Poker Lake Unit 16-21 BD #601H




**Approval Date: 09/08/2025**

Poker Lake Unit 16-21 BD #602H

Poker Lake Unit 16-21 BD #603H

Poker Lake Unit 16-21 BD #604H

Poker Lake Unit 16-33 BD #605H

Poker Lake Unit 16-33 BD #606H

Poker Lake Unit 16-33 BD #607H

Poker Lake Unit 16-33 BD #608H

Poker Lake Unit 16-21 BD #701H

Poker Lake Unit 16-21 BD #702H

Poker Lake Unit 16-21 BD #703H

Poker Lake Unit 16-21 BD #704H

Poker Lake Unit 16-33 BD #705H

Poker Lake Unit 16-33 BD #706H

Poker Lake Unit 16-33 BD #707H

Poker Lake Unit 16-33 BD #708H





**Approval Date: 09/08/2025**

# TABLE OF CONTENTS

1. GENERAL PROVISIONS ..... 10
ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES ..... 10
1.1. RANGELAND RESOURCES ..... 10
1.1.1. Cattleguards ..... 10
1.1.2. Fence Requirement ..... 11
1.1.3. Livestock Watering Requirement ..... 11
1.2. NOXIOUS WEEDS ..... 11
1.3.1 African Rue (Peganum harmala) ..... 11
1.3. LIGHT POLLUTION ..... 11
1.3.1. Downfacing ..... 11
1.3.2. Shielding ..... 12
1.3.3. Lighting Color ..... 12
2. SPECIAL REQUIREMENTS ..... 12
WATERSHED ..... 12
2.1.1. Tank Battery ..... 12
2.1.2. Buried/Surface Line(s) ..... 12
2.1.3. Road(s) ..... 13
2.1.4. Electric Line(s) ..... 13
WILDLIFE ..... 13
SPECIAL STATUS PLANT SPECIES ..... 13
2.3 VISUAL RESOURCE MANAGEMENT ..... 14
2.5.1 VRM IV ..... 14
3. CONSTRUCTION REQUIRENMENTS ..... 14
3.1 CONSTRCUTION NOTIFICATION ..... 14
3.2 TOPSOIL ..... 14
3.3 CLOSED LOOP SYSTEM ..... 14
3.4 FEDERAL MINERAL PIT ..... 14
3.5 WELL PAD & SURFACING ..... 14
3.6 EXCLOSURE FENCING (CELLARS & PITS) ..... 14
3.7 ON LEASE ACESS ROAD ..... 15
3.7.1 Road Width ..... 15
3.7.2 Surfacing ..... 15
3.7.3 Crowning ..... 15

3.7.4 Ditching ..... 15
3.7.5 Turnouts ..... 15
3.7.6 Drainage ..... 15
3.7.7 Public Access ..... 16
4. PIPELINES ..... 18
4.1 BURIED PIPELINES ..... 18
4.2 SURFACE PIPELINES ..... 20
4.3 RANGELAND MITIGATION FOR PIPELINES ..... 22
4.5.1 Fence Requirement ..... 22
4.5.2 Cattleguards ..... 22
4.5.3 Livestock Watering Requirement ..... 22
5. OVERHEAD ELECTRIC LINES ..... 23
6. PRODUCTION (POST DRILLING) ..... 24
5.1 WELL STRUCTURES & FACILITIES ..... 24
5.1.1 Placement of Production Facilities ..... 24
5.1.2 Exclosure Netting (Open-top Tanks) ..... 24
5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening ..... 24
5.1.4. Open-Vent Exhaust Stack Exclosures ..... 24
5.1.5. Containment Structures ..... 25
7. RECLAMATION ..... 25
6.1 ROAD AND SITE RECLAMATION ..... 25
6.2 EROSION CONTROL ..... 25
6.3 INTERIM RECLAMATION ..... 25
6.4 FINAL ABANDONMENT & RECLAMATION ..... 26
6.5 SEEDING TECHNIQUES ..... 26
6.6 SOIL SPECIFIC SEED MIXTURE ..... 26

# 3. GENERAL PROVISIONS

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

## ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

**New disturbances within 100 feet of LA204948 are not authorized. If disturbances are required within 100 feet of this site, please contact a BLM-CFO archeologist.**

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

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

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

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

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

## RANGELAND RESOURCES

### 1.1.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be

responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.1.2. **Fence Requirement**

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

1.1.3. **Livestock Watering Requirement**

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

## NOXIOUS WEEDS

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

**1.3.1 African Rue (Peganum harmala)**

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

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

## LIGHT POLLUTION

1.1.4. **Downfacing**

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

1.1.5. **Shielding**

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

1.1.6. **Lighting Color**

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

# 4. SPECIAL REQUIREMENTS

## WATERSHED

Any water erosion that may occur due to the construction of ROW/surface site and during the life of the ROW/surface site will be quickly corrected and proper measures will be taken to prevent future erosion. Erosion control structures such as curled (plastic free and weed free) wood/straw fiber wattles/logs, silt fences, diversion berms, or other soil erosion controls to slow water migration across disturbed areas should be installed during construction and reclamation or as needed.

Regular monitoring of any erosion control structures placed in or along the ROW/surface site is recommended, both following precipitation events and regularly during monsoon season (June – September).
Any spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

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.

1.1.7. **Tank Battery**

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

1.1.8. **Buried/Surface Line(s)**

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




**Approval Date: 09/08/2025**

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

1.1.9. **Road(s)**

The submitter is responsible for maintenance of the road during the proposed ROW term.

When crossing ephemeral drainages, low water crossings or culverts should be installed as appropriate. Low water crossings should be adequately armored with gabions, rock aprons and/or riprap.

Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The **minimum culvert diameter must be 18 inches**. Due to flash floods, increased overland flow, and related debris, the BLM strongly recommends the operator increases the culvert diameter to 24 inches or larger. Flared culvert, rock armoring, and gravel are recommended for culvert stability. Culvert location and required diameter are shown on the attached map. If culverts or drainage crossings are needed, they should be designed for a 25-year or greater storm frequency, without development of a static head at the pipe inlet. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water.

As appropriate, rock check dams should be installed above and/or below the drainage crossing to further reduce erosion potential.

Turnout ditches/drainage leadoffs should be installed along the ROW at every 5-foot change in elevation. Turnout ditches and drainage leadoffs should not be constructed in such a manner as to alter the natural flow of water into or out of naturally occurring drainage features.

Water bars should be placed within the ROW to divert and dissipate surface runoff.

1.1.10. **Electric Line(s)**

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

## WILDLIFE

2.3.1. **Raptor Nest Mitigation (includes Burrowing Owls)**

- A BLM Wildlife Biologist must be contacted by the operator prior to construction activities to determine if any raptor nests observed or detected are active. Raptor nest surveys are required prior to initiating construction of the project.
- Raptor nests on special, natural habitat features, such as trees, large brush, cliff faces and escarpments, will be protected by not allowing surface disturbance within up to 200 meters of nests or by delaying activity for up to 90 days, or a combination of both. Exceptions to this requirement for raptor nests will be considered if the nests expected to be disturbed are inactive, the proposed activity is of short duration (e.g. habitat enhancement projects, fences, pipelines) and will not result in continuing activity in proximity to the nest.
- Exhaust noise from pump jack engines, or other equipment, must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

## SPECIAL STATUS PLANT SPECIES

- A state take permit has been issued for up to 3 Scheer's beehive cactus. We have the ability/permission to transplant cacti to an appropriate site chosen by BLM.
- All SSPS within 30 meters will be fenced for protection.





**Approval Date: 09/08/2025**

## VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

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

# 5. CONSTRUCTION REQUIRENMENTS

## CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

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

## TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

## CLOSED LOOP SYSTEM

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

## FEDERAL MINERAL PIT

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

## WELL PAD & SURFACING

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

## EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain 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.

ON LEASE ACESS ROAD

### 3.1.1 Road Width

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

### 3.1.2 Surfacing

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

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

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

### 3.1.3 Crowning

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

### 3.1.4 Ditching

Ditching shall be required on both sides of the road.

### 3.1.5 Turnouts

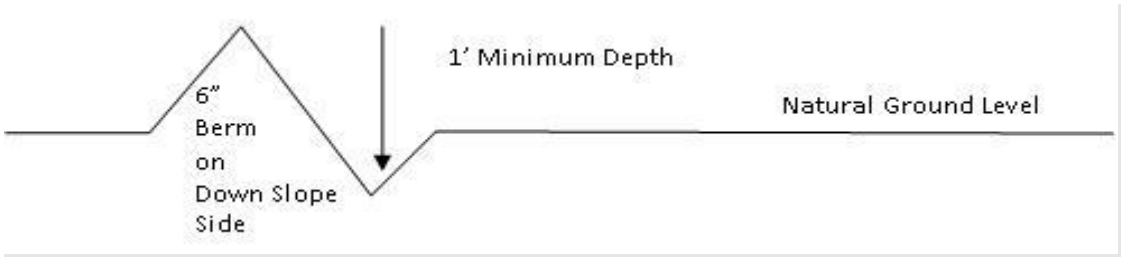
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### 3.7.6 Drainage

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

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

3.7.7 **Public Access**

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

**Construction Steps**

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

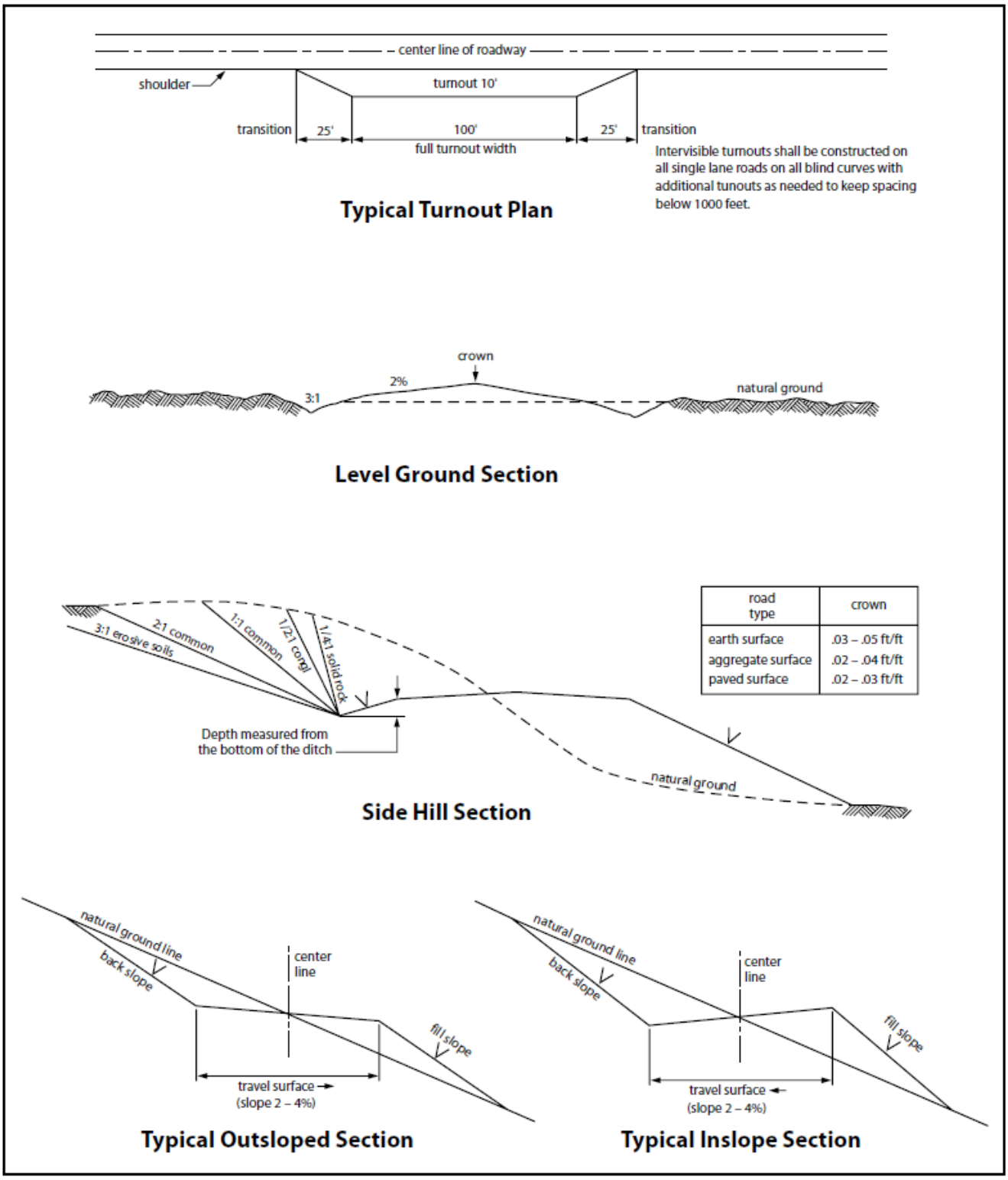



Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.





**Approval Date: 09/08/2025**

# 7. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

## BURIED PIPELINES

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

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

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

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

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

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

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

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





**Approval Date: 09/08/2025**

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

## SURFACE PIPELINES

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

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

1. Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridoror on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.

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

   a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;

   b. Activities of other parties including, but not limited to:
      (1) Land clearing
      (2) Earth-disturbing and earth-moving work
      (3) Blasting
      (4) Vandalism and sabotage

   c. Acts of God.

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

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

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

6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or pipeline corridors.

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

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

9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

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

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

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

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

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

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

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

## RANGELAND MITIGATION FOR PIPELINES

### 4.5.1 **Fence Requirement**

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

### 4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

### 4.5.3 **Livestock Watering Requirement**

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

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

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

# 8. OVERHEAD ELECTRIC LINES

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

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

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
    - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

# 9. PRODUCTION (POST DRILLING)

## WELL STRUCTURES & FACILITIES

### 5.1.1 **Placement of Production Facilities**

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

### 5.1.2 **Exclosure Netting (Open-top Tanks)**

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

### 5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

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

### 5.1.4. Open-Vent Exhaust Stack Exclosures

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

#### 5.1.5. Containment Structures

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

# 10. RECLAMATION

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

## 6.1 ROAD AND SITE RECLAMATION

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

## 6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion 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 have occurred, enabling a full four months of growth, with one or more seed generations being established.





**Approval Date: 09/08/2025**

**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





**Approval Date: 09/08/2025**

**PECOS DISTRICT**

**SURFACE USE**

**CONDITIONS OF APPROVAL**

| | |
|---|---|
| OPERATOR'S NAME: | XTO Permian Operating, LLC |
| LEASE NO.: | NMNM071016X |
| COUNTY: | Eddy County, New Mexico |

Wells:

Poker Lake Unit 14-35 BD #101H
Poker Lake Unit 14-35 BD #102H
Poker Lake Unit 14-35 BD #103H
Poker Lake Unit 14-35 BD #104H
Poker Lake Unit 14-35 BD #105H
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**Approval Date: 09/08/2025**

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**Approval Date: 09/08/2025**

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**Approval Date: 09/08/2025**

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Poker Lake Unit 16-33 BD #706H
Poker Lake Unit 16-33 BD #707H
Poker Lake Unit 16-33 BD #708H




**Approval Date: 09/08/2025**

# TABLE OF CONTENTS

1. GENERAL PROVISIONS ..... 10
ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES ..... 10
1.1. RANGELAND RESOURCES ..... 10
1.1.1. Cattleguards ..... 10
1.1.2. Fence Requirement ..... 11
1.1.3. Livestock Watering Requirement ..... 11
1.2. NOXIOUS WEEDS ..... 11
1.3.1 African Rue (Peganum harmala) ..... 11
1.3. LIGHT POLLUTION ..... 11
1.3.1. Downfacing ..... 11
1.3.2. Shielding ..... 12
1.3.3. Lighting Color ..... 12
2. SPECIAL REQUIREMENTS ..... 12
WATERSHED ..... 12
2.1.1. Tank Battery ..... 12
2.1.2. Buried/Surface Line(s) ..... 12
2.1.3. Road(s) ..... 13
2.1.4. Electric Line(s) ..... 13
WILDLIFE ..... 13
SPECIAL STATUS PLANT SPECIES ..... 13
2.3 VISUAL RESOURCE MANAGEMENT ..... 14
2.5.1 VRM IV ..... 14
3. CONSTRUCTION REQUIRENMENTS ..... 14
3.1 CONSTRCUTION NOTIFICATION ..... 14
3.2 TOPSOIL ..... 14
3.3 CLOSED LOOP SYSTEM ..... 14
3.4 FEDERAL MINERAL PIT ..... 14
3.5 WELL PAD & SURFACING ..... 14
3.6 EXCLOSURE FENCING (CELLARS & PITS) ..... 14
3.7 ON LEASE ACESS ROAD ..... 15
3.7.1 Road Width ..... 15
3.7.2 Surfacing ..... 15
3.7.3 Crowning ..... 15

3.7.4 Ditching ..... 15
3.7.5 Turnouts ..... 15
3.7.6 Drainage ..... 15
3.7.7 Public Access ..... 16
4. PIPELINES ..... 18
4.1 BURIED PIPELINES ..... 18
4.2 SURFACE PIPELINES ..... 20
4.3 RANGELAND MITIGATION FOR PIPELINES ..... 22
4.5.1 Fence Requirement ..... 22
4.5.2 Cattleguards ..... 22
4.5.3 Livestock Watering Requirement ..... 22
5. OVERHEAD ELECTRIC LINES ..... 23
6. PRODUCTION (POST DRILLING) ..... 24
5.1 WELL STRUCTURES & FACILITIES ..... 24
5.1.1 Placement of Production Facilities ..... 24
5.1.2 Exclosure Netting (Open-top Tanks) ..... 24
5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening ..... 24
5.1.4. Open-Vent Exhaust Stack Exclosures ..... 24
5.1.5. Containment Structures ..... 25
7. RECLAMATION ..... 25
6.1 ROAD AND SITE RECLAMATION ..... 25
6.2 EROSION CONTROL ..... 25
6.3 INTERIM RECLAMATION ..... 25
6.4 FINAL ABANDONMENT & RECLAMATION ..... 26
6.5 SEEDING TECHNIQUES ..... 26
6.6 SOIL SPECIFIC SEED MIXTURE ..... 26

# 3. GENERAL PROVISIONS

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

## ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

**New disturbances within 100 feet of LA204948 are not authorized. If disturbances are required within 100 feet of this site, please contact a BLM-CFO archeologist.**

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

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

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

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

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

## RANGELAND RESOURCES

### 1.1.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be

responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.1.2. **Fence Requirement**

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

1.1.3. **Livestock Watering Requirement**

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

## NOXIOUS WEEDS

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

**1.3.1 African Rue (Peganum harmala)**

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

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

## LIGHT POLLUTION

1.1.4. **Downfacing**

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

1.1.5. **Shielding**

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

1.1.6. **Lighting Color**

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

# 4. SPECIAL REQUIREMENTS

## WATERSHED

Any water erosion that may occur due to the construction of ROW/surface site and during the life of the ROW/surface site will be quickly corrected and proper measures will be taken to prevent future erosion. Erosion control structures such as curled (plastic free and weed free) wood/straw fiber wattles/logs, silt fences, diversion berms, or other soil erosion controls to slow water migration across disturbed areas should be installed during construction and reclamation or as needed.

Regular monitoring of any erosion control structures placed in or along the ROW/surface site is recommended, both following precipitation events and regularly during monsoon season (June – September).
Any spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

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.

1.1.7. **Tank Battery**

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

1.1.8. **Buried/Surface Line(s)**

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




**Approval Date: 09/08/2025**

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

1.1.9. **Road(s)**

The submitter is responsible for maintenance of the road during the proposed ROW term.

When crossing ephemeral drainages, low water crossings or culverts should be installed as appropriate. Low water crossings should be adequately armored with gabions, rock aprons and/or riprap.

Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The **minimum culvert diameter must be 18 inches**. Due to flash floods, increased overland flow, and related debris, the BLM strongly recommends the operator increases the culvert diameter to 24 inches or larger. Flared culvert, rock armoring, and gravel are recommended for culvert stability. Culvert location and required diameter are shown on the attached map. If culverts or drainage crossings are needed, they should be designed for a 25-year or greater storm frequency, without development of a static head at the pipe inlet. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water.

As appropriate, rock check dams should be installed above and/or below the drainage crossing to further reduce erosion potential.

Turnout ditches/drainage leadoffs should be installed along the ROW at every 5-foot change in elevation. Turnout ditches and drainage leadoffs should not be constructed in such a manner as to alter the natural flow of water into or out of naturally occurring drainage features.

Water bars should be placed within the ROW to divert and dissipate surface runoff.

1.1.10. **Electric Line(s)**

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

## WILDLIFE

2.3.1. **Raptor Nest Mitigation (includes Burrowing Owls)**

- A BLM Wildlife Biologist must be contacted by the operator prior to construction activities to determine if any raptor nests observed or detected are active. Raptor nest surveys are required prior to initiating construction of the project.
- Raptor nests on special, natural habitat features, such as trees, large brush, cliff faces and escarpments, will be protected by not allowing surface disturbance within up to 200 meters of nests or by delaying activity for up to 90 days, or a combination of both. Exceptions to this requirement for raptor nests will be considered if the nests expected to be disturbed are inactive, the proposed activity is of short duration (e.g. habitat enhancement projects, fences, pipelines) and will not result in continuing activity in proximity to the nest.
- Exhaust noise from pump jack engines, or other equipment, must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

## SPECIAL STATUS PLANT SPECIES

- A state take permit has been issued for up to 3 Scheer's beehive cactus. We have the ability/permission to transplant cacti to an appropriate site chosen by BLM.
- All SSPS within 30 meters will be fenced for protection.

VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

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

# 5. CONSTRUCTION REQUIRENMENTS

## CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

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

## TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

## CLOSED LOOP SYSTEM

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

## FEDERAL MINERAL PIT

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

## WELL PAD & SURFACING

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

## EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain 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.

ON LEASE ACESS ROAD

### 3.1.1 Road Width

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

### 3.1.2 Surfacing

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

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

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

### 3.1.3 Crowning

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

### 3.1.4 Ditching

Ditching shall be required on both sides of the road.

### 3.1.5 Turnouts

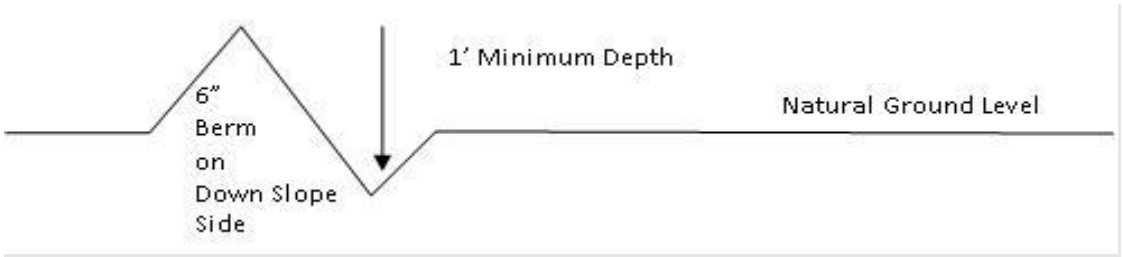
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### 3.7.6 Drainage

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

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

3.7.7 **Public Access**

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





**Approval Date: 09/08/2025**

**Construction Steps**

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

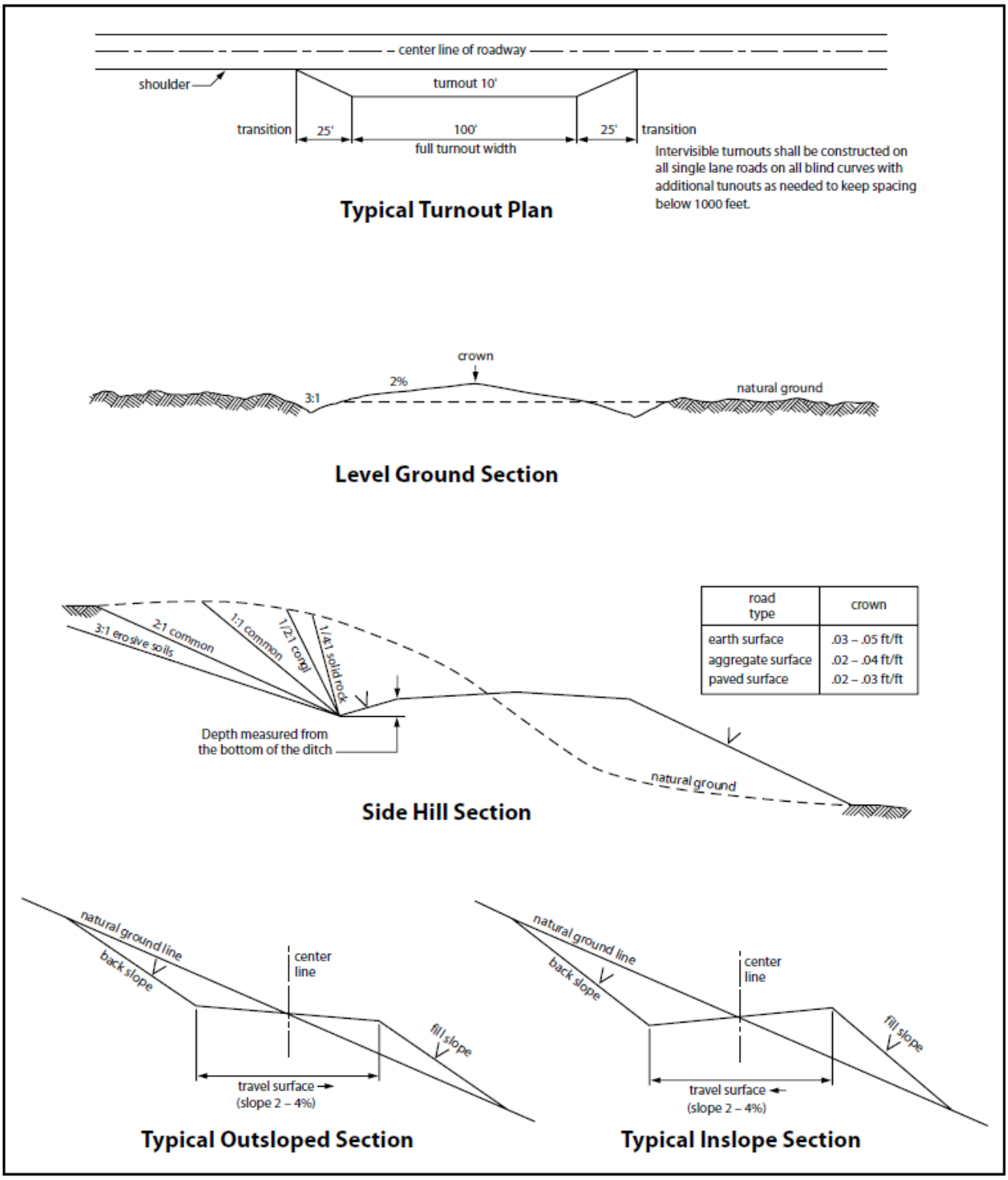



Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.





**Approval Date: 09/08/2025**

# 7. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

## BURIED PIPELINES

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

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

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

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

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

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

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

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





**Approval Date: 09/08/2025**

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

## SURFACE PIPELINES

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

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

1. Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridoror on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.

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

   a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;

   b. Activities of other parties including, but not limited to:
      (1) Land clearing
      (2) Earth-disturbing and earth-moving work
      (3) Blasting
      (4) Vandalism and sabotage

   c. Acts of God.

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

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

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

6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or pipeline corridors.

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

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

9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

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

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

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

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

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

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

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

## RANGELAND MITIGATION FOR PIPELINES

### 4.5.1 **Fence Requirement**

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

### 4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

### 4.5.3 **Livestock Watering Requirement**

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

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

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

# 8. OVERHEAD ELECTRIC LINES

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

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

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
    - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

# 9. PRODUCTION (POST DRILLING)

## WELL STRUCTURES & FACILITIES

### 5.1.1 **Placement of Production Facilities**

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

### 5.1.2 **Exclosure Netting (Open-top Tanks)**

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

### 5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

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

### 5.1.4. Open-Vent Exhaust Stack Exclosures

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

#### 5.1.5. Containment Structures

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

# 10. RECLAMATION

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

## 6.1 ROAD AND SITE RECLAMATION

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

## 6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion 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 have occurred, enabling a full four months of growth, with one or more seed generations being established.

**Seed Mixture 2, for Sandy Site**

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

| 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





**Approval Date: 09/08/2025**

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | XTO Permian Operating LLC |
| **WELL NAME & NO.:** | Poker Lake Unit 15-34 BD 305H |
| **LOCATION:** | Section 15, T.25S., R.30E. |
| **COUNTY:** | Eddy County |

COA

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

## A. HYDROGEN SULFIDE

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

**Possibility of water flows in the Rustler**
**Possibility of lost circulation in the Salado, Castile, and Delaware.**
**Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.**




**Approval Date: 09/08/2025**

**B. CASING**

1. The **9-5/8** inch surface casing shall be set at approximately **1320** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **12-1/4** inch in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

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

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

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

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

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

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



 **Approval Date: 09/08/2025**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

## C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **9-5/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR 3172** i must be followed.

## D. SPECIAL REQUIREMENT (S)

**Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

**Commercial Well Determination**

A commercial well determination shall be submitted after production has been established for at least six months.

**E. SPECIAL REQUIREMENT (S)**

**BOPE Break Testing Variance**

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

**Offline Cementing**

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

# GENERAL REQUIREMENTS

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

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

☒ Eddy County
**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
**BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

**A. CASING**

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

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

**B. PRESSURE CONTROL**

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

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However,

if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

**C. DRILLING MUD**

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

**D. WASTE MATERIAL AND FLUIDS**

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

JS 4/21/2025





**Approval Date: 09/08/2025**

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

# Operator Certification Data Report

01/30/2026

## 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:** DEVAJ SHARMA **Signed on:** 12/30/2024

**Title:** Regulatory Analyst

**Street Address:** 22777 SPRINGWOODS VILLAGE PARKWAY

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

**Phone:** (817)870-2800

**Email address:** DEVAJ.SHARMA@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
01/30/2026

**APD ID:** 10400102818
**Submission Date:** 12/30/2024
**Operator Name:** XTO PERMIAN OPERATING LLC
**Well Name:** POKER LAKE UNIT 15-34 BD
**Well Number:** 305H
**Well Type:** CONVENTIONAL GAS WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Section 1 - General

**APD ID:** 10400102818
**Tie to previous NOS?** N
**Submission Date:** 12/30/2024
**BLM Office:** Carlsbad
**User:** DEVAJ SHARMA
**Title:** Regulatory Analyst
**Federal/Indian APD:** FED
**Is the first lease penetrated for production Federal or Indian?** FED
**Lease number:** NMLC061616A
**Lease Acres:**
**Surface access agreement in place?**
**Allotted?**
**Reservation:**
**Agreement in place?** YES
**Federal or Indian agreement:** FEDERAL
**Agreement number:** NMNM71016X
**Agreement name:** POKER LAKE UNIT
**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:** POKER LAKE UNIT 15-34 BD
**Well Number:** 305H
**Field/Pool or Exploratory?** Field and Pool
**Field Name:** PURPLE SAGE
**Pool Name:** WOLFCAMP (GAS)



Released to Imaging: 4/27/2026 7:03:45 AM

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

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

**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL **Multiple Well Pad Name:** POKER LAKE UNIT 15-34 BD **Number:** A

**Well Class:** HORIZONTAL **Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** CONVENTIONAL GAS WELL

**Describe Well Type:**

**Well sub-Type:** EVALUATION

**Describe sub-type:**

**Distance to town:** **Distance to nearest well:** 30 FT **Distance to lease line:** 420 FT

**Reservoir well spacing assigned acres Measurement:** 801 Acres

**Well plat:** PLU_15_34_BD_305H_C102_20241230105211.pdf

**Well work start Date:** 06/16/2026 **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 | 1815 | FNL | 420 | FWL | 25S | 30E | 15 | Aliquot SWNW | 32.132701 | -103.876233 | EDDY | NEW MEXICO | NEW MEXICO | F | NMLC063873A | 3295 | | | N |
| KOP Leg #1 | 616 | FNL | 359 | FWL | 25S | 30E | 15 | Aliquot NWNW | 32.135996 | -103.876429 | EDDY | NEW MEXICO | NEW MEXICO | F | NMLC063873A | -7036 | 10489 | 10331 | N |
| PPP Leg #1-1 | 100 | FSL | 360 | FWL | 25S | 30E | 10 | Aliquot SWSW | 32.137964 | -103.876425 | EDDY | NEW MEXICO | NEW MEXICO | F | NMLC061616A | -7752 | 11700 | 11047 | Y |

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

| 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 | 2537 | FSL | 360 | FWL | 24S | 30E | 34 | Aliquot NWSW | 32.173989 | -103.876344 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 030452 | -7752 | 24718 | 11047 | Y |
| BHL Leg #1 | 2627 | FSL | 360 | FWL | 24S | 30E | 34 | Aliquot NWSW | 32.174236 | -103.876346 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 030452 | -7752 | 24808 | 11047 | Y |

CONFIDENTIAL

| C-102<br>Sumbit electronically<br>Via OCD Permitting | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br>OIL CONVERSION DIVISION | Revised July, 09 2024 |
|---|---|---|
| | | 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 |
|---|---|---|
| | POKER LAKE UNIT 15-34 BD | 305H |

| OGRID No. | Operator Name | Ground Level Elevation |
|---|---|---|
| 373075 | XTO PERMIAN OPERATING, LLC. | 3,295' |

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 |
|---|---|---|---|---|---|---|---|---|---|
| E | 15 | 25S | 30E | | 1,815 FNL | 420 FWL | 32.132701 | -103.876233 | EDDY |

**Bottom Hole Location**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 34 | 24S | 30E | | 2,627 FSL | 360 FWL | 32.174236 | -103.876346 | EDDY |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| 801.20 | DEFINING | | N | U |

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 |
|---|---|---|---|---|---|---|---|---|---|
| D | 15 | 25S | 30E | | 616 FNL | 359 FWL | 32.135996 | -103.876429 | EDDY |

**First Take Point (FTP)**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 10 | 25S | 30E | | 100 FSL | 360 FWL | 32.137964 | -103.876425 | EDDY |

**Last Take Point (LTP)**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 34 | 24S | 30E | | 2,537 FSL | 360 FWL | 32.173989 | -103.876344 | EDDY |

| Unitized Area of Area of Interest | Spacing Unit Type : ☒Horizontal ☐Vertical | Ground Elevation |
|---|---|---|
| NMNM-071016X | | 3,295' |

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.*

Vishal Rajan — 12/27/2024
Signature — Date

VISHAL RAJAN
Printed Name

vishal.rajan@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 — 12/26/2024
Certificate Number — Date of Survey

TN 618.013003.34-21

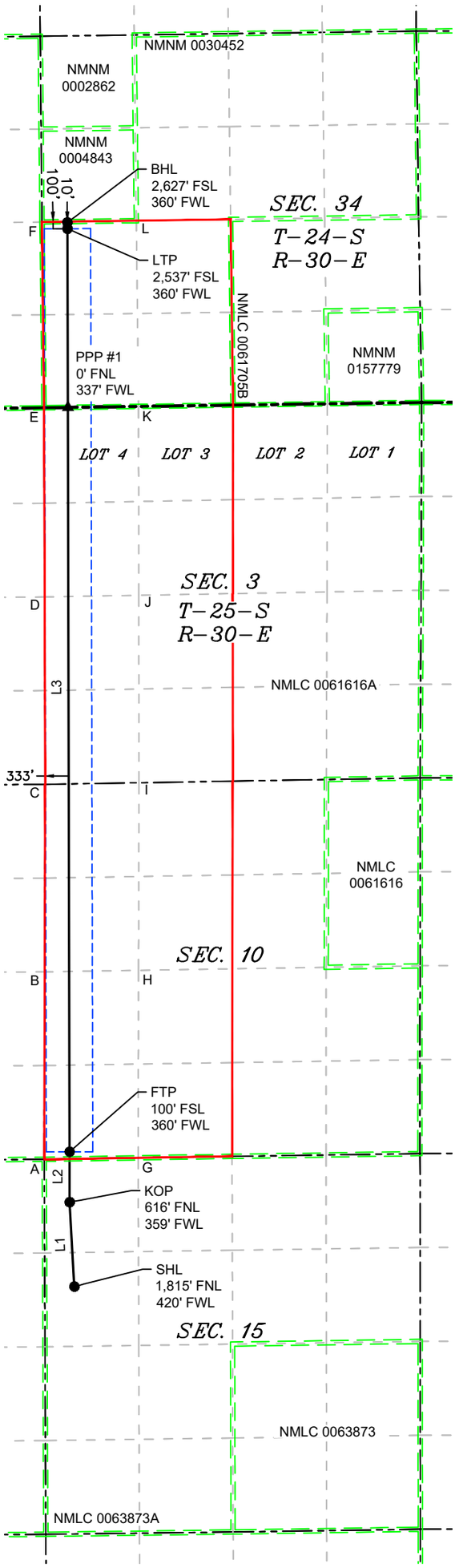
*Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.*

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.34 - PLU 15 Brushy Draw\Wells\-21 - 305H\DWG\15-34 BD 305H 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 acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

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




## LEGEND

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

LOT ACREAGE TABLE

SECTION 3
T-25-S R-30-E
LOT 1 = 40.10 ACRES
LOT 2 = 40.30 ACRES
LOT 3 = 40.50 ACRES
LOT 4 = 40.70 ACRES

| LINE TABLE | | |
|---|---|---|
| LINE | AZIMUTH | LENGTH |
| L1 | 356°50'50" | 1,200.02' |
| L2 | 359°52'04" | 716.24' |
| L3 | 359°51'47" | 13,195.14' |

| COORDINATE TABLE | | | | | |
|---|---|---|---|---|---|
| SHL (NAD 83 NME) | | | SHL (NAD 27 NME) | | |
| Y = | 412,312.7 | N | Y = | 412,254.1 | N |
| X = | 682,829.4 | E | X = | 641,644.7 | E |
| LAT. = | 32.132701 | °N | LAT. = | 32.132576 | °N |
| LONG. = | 103.876233 | °W | LONG. = | 103.875750 | °W |
| KOP (NAD 83 NME) | | | KOP (NAD 27 NME) | | |
| Y = | 413,510.9 | N | Y = | 413,452.3 | N |
| X = | 682,763.4 | E | X = | 641,578.8 | E |
| LAT. = | 32.135996 | °N | LAT. = | 32.135871 | °N |
| LONG. = | 103.876429 | °W | LONG. = | 103.875946 | °W |
| FTP (NAD 83 NME) | | | FTP (NAD 27 NME) | | |
| Y = | 414,227.1 | N | Y = | 414,168.5 | N |
| X = | 682,761.8 | E | X = | 641,577.1 | E |
| LAT. = | 32.137964 | °N | LAT. = | 32.137840 | °N |
| LONG. = | 103.876425 | °W | LONG. = | 103.875942 | °W |
| PPP #1 (NAD 83 NME) | | | PPP #1 (NAD 27 NME) | | |
| Y = | 424,794.9 | N | Y = | 424,736.1 | N |
| X = | 682,737.2 | E | X = | 641,552.8 | E |
| LAT. = | 32.167014 | °N | LAT. = | 32.166889 | °N |
| LONG. = | 103.876360 | °W | LONG. = | 103.875875 | °W |
| LTP (NAD 83 NME) | | | LTP (NAD 27 NME) | | |
| Y = | 427,332.2 | N | Y = | 427,273.3 | N |
| X = | 682,731.2 | E | X = | 641,547.0 | E |
| LAT. = | 32.173989 | °N | LAT. = | 32.173864 | °N |
| LONG. = | 103.876344 | °W | LONG. = | 103.875859 | °W |
| BHL (NAD 83 NME) | | | BHL (NAD 27 NME) | | |
| Y = | 427,422.2 | N | Y = | 427,363.3 | N |
| X = | 682,730.2 | E | X = | 641,546.0 | E |
| LAT. = | 32.174236 | °N | LAT. = | 32.174111 | °N |
| LONG. = | 103.876346 | °W | LONG. = | 103.875861 | °W |
| CORNER COORDINATES (NAD 83 NME) | | | | | |
| A - Y = | 414,121.6 | N | A - X = | 682,401.5 | E |
| B - Y = | 416,782.9 | N | B - X = | 682,409.0 | E |
| C - Y = | 419,444.2 | N | C - X = | 682,416.6 | E |
| D - Y = | 422,103.9 | N | D - X = | 682,408.5 | E |
| E - Y = | 424,790.2 | N | E - X = | 682,399.9 | E |
| F - Y = | 427,427.3 | N | F - X = | 682,370.1 | E |
| G - Y = | 414,142.1 | N | G - X = | 683,736.7 | E |
| H - Y = | 416,804.2 | N | H - X = | 683,742.6 | E |
| I - Y = | 419,466.8 | N | I - X = | 683,748.4 | E |
| J - Y = | 422,127.9 | N | J - X = | 683,745.4 | E |
| K - Y = | 424,809.0 | N | K - X = | 683,742.2 | E |
| L - Y = | 427,445.6 | N | L - X = | 683,710.4 | E |
| CORNER COORDINATES (NAD 27 NME) | | | | | |
| A - Y = | 414,063.0 | N | A - X = | 641,216.8 | E |
| B - Y = | 416,724.2 | N | B - X = | 641,224.5 | E |
| C - Y = | 419,385.5 | N | C - X = | 641,232.1 | E |
| D - Y = | 422,045.1 | N | D - X = | 641,224.1 | E |
| E - Y = | 424,731.4 | N | E - X = | 641,215.6 | E |
| F - Y = | 427,368.4 | N | F - X = | 641,185.9 | E |
| G - Y = | 414,083.7 | N | G - X = | 642,552.1 | E |
| H - Y = | 416,745.8 | N | H - X = | 642,558.0 | E |
| I - Y = | 419,408.3 | N | I - X = | 642,564.0 | E |
| J - Y = | 422,069.3 | N | J - X = | 642,561.1 | E |
| K - Y = | 424,750.4 | N | K - X = | 642,557.9 | E |
| L - Y = | 427,386.8 | N | L - X = | 642,526.3 | E |

TN 618.013003.34-21

\618.013 XTO Energy - NM\003 Poker Lake Unit\.34 - PLU 15 Brushy Draw\Wells\-21 - 305H\DWG\15-34 BD 305H C-102.dwg

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

# Drilling Plan Data Report
01/30/2026

**APD ID:** 10400102818
**Submission Date:** 12/30/2024
**Operator Name:** XTO PERMIAN OPERATING LLC
**Well Name:** POKER LAKE UNIT 15-34 BD
**Well Number:** 305H
**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 |
|---|---|---|---|---|---|---|---|
| 16354560 | QUATERNARY | 3295 | 0 | 0 | ALLUVIUM | USEABLE WATER | N |
| 16354561 | RUSTLER | 2381 | 914 | 914 | ANHYDRITE, SANDSTONE | USEABLE WATER | N |
| 16354562 | SALADO | 2139 | 1156 | 1156 | SALT | NONE | N |
| 16354563 | BASE OF SALT | -263 | 3558 | 3558 | SALT | NONE | N |
| 16354564 | DELAWARE | -581 | 3876 | 3876 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL, OTHER : Produced Water | N |
| 16354565 | BRUSHY CANYON | -2722 | 6017 | 6017 | SANDSTONE | NATURAL GAS, OIL, OTHER : Produced Water | N |
| 16354566 | BONE SPRING | -4351 | 7646 | 7646 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL, OTHER : Produced Water | N |
| 16354567 | BONE SPRING 1ST | -5075 | 8370 | 8370 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL, OTHER : Produced Water | N |
| 16354577 | BONE SPRING 2ND | -5582 | 8877 | 8877 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL, OTHER : Produced Water | N |
| 16354578 | BONE SPRING 3RD | -6456 | 9751 | 9751 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL, OTHER : Produced Water | N |
| 16354558 | WOLFCAMP | -7678 | 10973 | 10973 | SANDSTONE, SHALE | NATURAL GAS, OIL, OTHER : Produced Water | Y |
| 16354559 | WOLFCAMP | -7708 | 11003 | 11003 | SANDSTONE, SHALE | NATURAL GAS, OIL, OTHER : Produced Water | Y |

## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M
**Rating Depth:** 11047

**Equipment:** Once the permanent WH is installed on the surface casing, the BOP equipment will have a 5M Hydril Annular & a 10M Triple Ram BOP. XTO will use a Multi-Bowl System which is attached
**Requesting Variance?** YES

**Variance request:** A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. . XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad.Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. XTO requests a variance to utilize a spudder rig. See attached.

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

**Choke Diagram Attachment:**

POKER_LAKE_UNIT_15_34_15_27_BD_10MCM_20241217065024.pdf

**BOP Diagram Attachment:**

POKER_LAKE_UNIT_15_34_15_27_BD_5M10M_BOP_20241217065049.pdf

## Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SURFACE | 12.25 | 9.625 | NEW | API | N | 0 | 1014 | 0 | 1014 | 3295 | 2281 | 1014 | J-55 | 40 | BUTT | 6.21 | 1.28 | DRY | 15.53 | DRY | 15.53 |
| 2 | INTERMEDIATE | 8.75 | 7.625 | NEW | API | Y | 0 | 10289 | 0 | 10132 | 3295 | -6837 | 10289 | L-80 | 29.7 | FJ | 1.85 | 1.65 | DRY | 2.17 | DRY | 2.17 |
| 3 | PRODUCTION | 6.75 | 5.5 | NEW | NON API | Y | 0 | 24808 | 0 | 11047 | 3295 | -7752 | 24808 | P-110 | 20 | OTHER - Freedom HTQ/Talon HTQ | 1.68 | 1.05 | DRY | 1.97 | DRY | 1.97 |

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

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

**Inspection Document:**

**Spec Document:**

Freedom_semi_premium_5.5_production_casing_20241218030230.pdf

Talon_semiflush_5.5_production_casing_20241218030230.pdf

**Tapered String Spec:**

Casing_and_Tapered_Spec_20250320102007.pdf

**Casing Design Assumptions and Worksheet(s):**

Casing_and_Tapered_Spec_20250320102031.pdf

## Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURFACE | Lead | | 0 | 1014 | 230 | 1.87 | 10.5 | 430.1 | 100 | EconoCem-HLTRRC | NA |
| SURFACE | Tail | | 0 | 1014 | 130 | 1.35 | 14.8 | 175.5 | 100 | Class C | 2%CaCl |
| INTERMEDIATE | Lead | | 0 | 6017 | 680 | 1.33 | 14.8 | 904.4 | 100 | Class C | NA |
| INTERMEDIATE | Tail | | 6017 | 10289 | 390 | 1.35 | 14.8 | 526.5 | 100 | Class C | NA |

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCTION | Lead | | 9989 | 10489 | 20 | 2.69 | 11.5 | 53.8 | 30 | NeoCem | NA |
| PRODUCTION | Tail | | 10489 | 24808 | 1020 | 1.51 | 13.2 | 1540.2 | 30 | VersaCem | NA |

## Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

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

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

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

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

## Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1014 | WATER-BASED MUD | 8.4 | 8.9 | | | | | | | |
| 1014 | 3558 | SALT SATURATED | 10 | 10.5 | | | | | | | |
| 3558 | 10289 | OTHER : BDE | 10 | 10.5 | | | | | | | |
| 10289 | 24808 | OIL-BASED MUD | 11.5 | 12 | | | | | | | |

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

## Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

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

**Coring operation description for the well:**

No coring is planned for the well.

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6893 **Anticipated Surface Pressure:** 4462

**Anticipated Bottom Hole Temperature(F):** 195

**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_20241217064721.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

PLU_15_34_BD_305H_DD_20241222125817.pdf

Poker_Lake_Unit_15_34_BD_305H_Formation__Section_View_and_Plan_view_20250320102756.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

NGMPForm___PLU_15_BD_20241217071000.pdf

POKER_LAKE_UNIT_15_34_15_27_BD_20_9.625_7.625_5.5_3_String_20241217101239.pdf

PLU_15_34_Combined_H2S_Diagram_A__B_20250320102919.pdf

PLU_15_34_BD_305H_DP_20250320103018.pdf

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

**Other Variance attachment:**

BOP_Break_Test_Variance_20241217071051.pdf

POKER_LAKE_UNIT_15_34_15_27_BD_Flex_Hose_Updated_20241217071047.pdf





CONFIDENTIAL

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

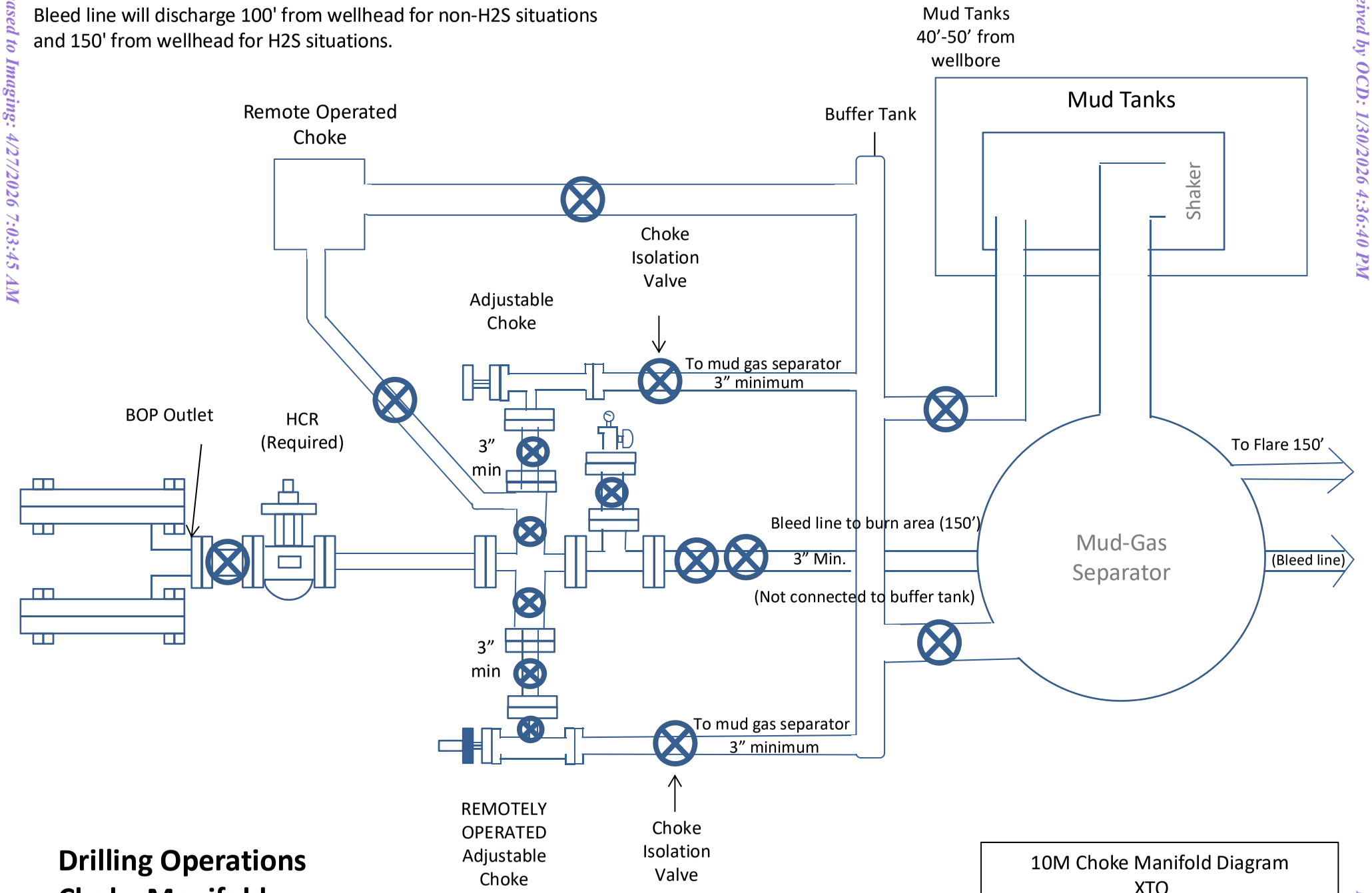
POKER_LAKE_UNIT_15_34_15_27_BD_OLCV_20241217071049.pdf

Spudder_Rig_Request_20241217071048.pdf

CONFIDENTIAL

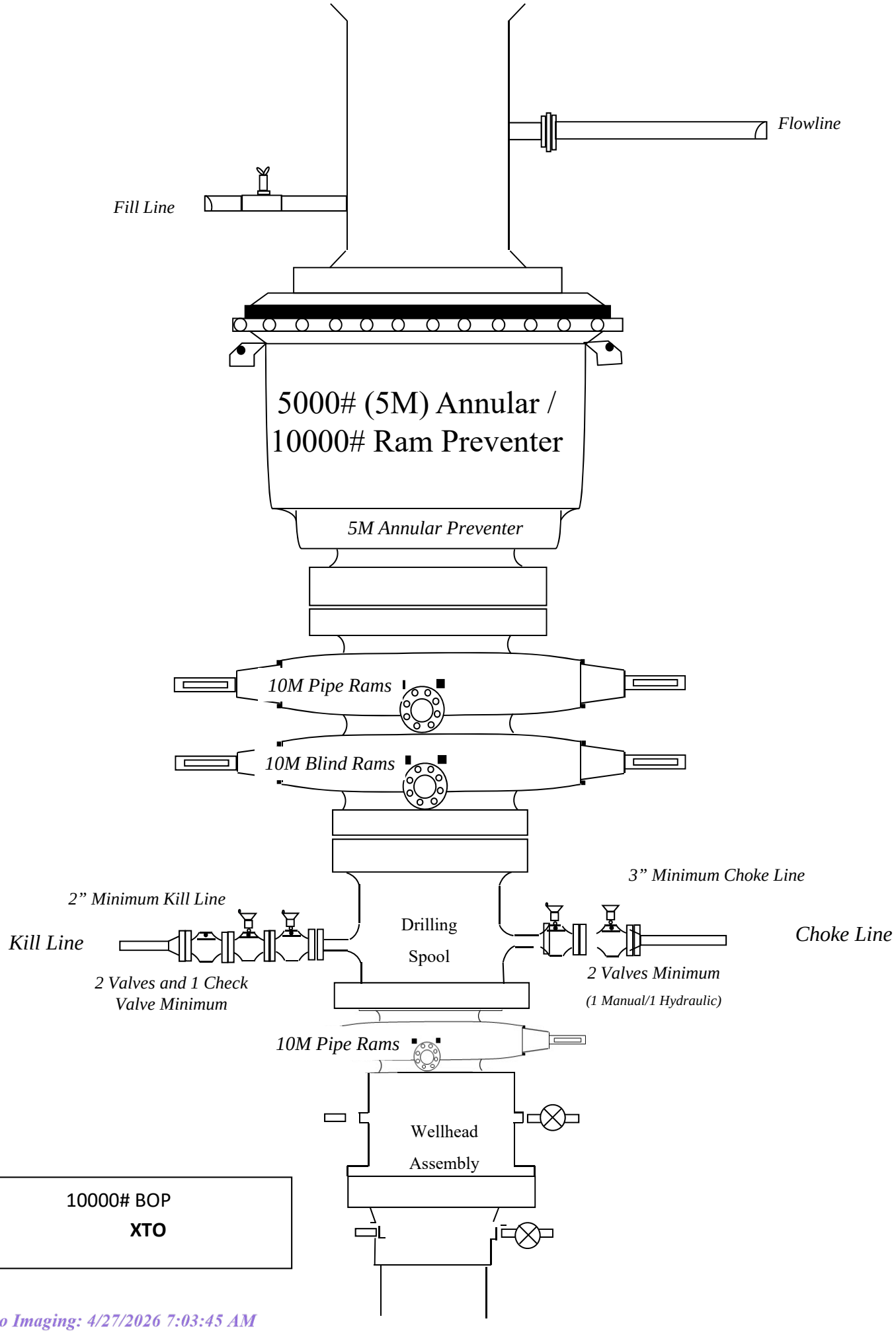
Released to Imaging: 4/27/2026 7:03:45 AM
Received by OCD: 1/30/2026 4:36:40 PM

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**

# U. S. Steel Tubular Products

11/8/2023 1:08:50 PM

## 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

| MECHANICAL PROPERTIES | Pipe | USS-FREEDOM HTQ® | | -- |
|---|---|---|---|---|
| Minimum Yield Strength | 110,000 | -- | psi | -- |
| Maximum Yield Strength | 125,000 | -- | psi | -- |
| Minimum Tensile Strength | 125,000 | -- | psi | -- |
| **DIMENSIONS** | **Pipe** | **USS-FREEDOM HTQ®** | | **--** |
| Outside Diameter | 5.500 | 6.300 | in. | -- |
| Wall Thickness | 0.361 | -- | in. | -- |
| Inside Diameter | 4.778 | 4.778 | in. | -- |
| Standard Drift | 4.653 | 4.653 | in. | -- |
| Alternate Drift | -- | -- | in. | -- |
| Nominal Linear Weight, T&C | 20.00 | -- | lb/ft | -- |
| Plain End Weight | 19.83 | -- | lb/ft | -- |
| **SECTION AREA** | **Pipe** | **USS-FREEDOM HTQ®** | | **--** |
| Critical Area | 5.828 | 5.828 | sq. in. | -- |
| Joint Efficiency | -- | 100.0 | % | -- |
| **PERFORMANCE** | **Pipe** | **USS-FREEDOM HTQ®** | | **--** |
| Minimum Collapse Pressure | 11,100 | 11,100 | psi | -- |
| Minimum Internal Yield Pressure | 12,640 | 12,640 | psi | -- |
| Minimum Pipe Body Yield Strength | 641,000 | -- | lb | -- |
| Joint Strength | -- | 641,000 | lb | -- |
| Compression Rating | -- | 641,000 | lb | -- |
| Reference Length [4] | -- | 21,370 | ft | -- |
| Maximum Uniaxial Bend Rating [2] | -- | 91.7 | deg/100 ft | -- |
| **MAKE-UP DATA** | **Pipe** | **USS-FREEDOM HTQ®** | | **--** |
| Make-Up Loss | -- | 4.13 | in. | -- |
| Minimum Make-Up Torque [3] | -- | 15,000 | ft-lb | -- |
| Maximum Make-Up Torque [3] | -- | 21,000 | ft-lb | -- |
| Maximum Operating Torque[3] | -- | 29,500 | ft-lb | -- |

UNCONTROLLED

## Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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www.usstubular.com

# U. S. Steel Tubular Products

11/29/2021 4:16:04 PM

## 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

| MECHANICAL PROPERTIES | Pipe | USS-TALON HTQ™ RD | | [6] |
|---|---|---|---|---|
| Minimum Yield Strength | 110,000 | -- | psi | -- |
| Maximum Yield Strength | 125,000 | -- | psi | -- |
| Minimum Tensile Strength | 125,000 | -- | psi | -- |
| **DIMENSIONS** | **Pipe** | **USS-TALON HTQ™ RD** | | **--** |
| Outside Diameter | 5.500 | 5.900 | in. | -- |
| Wall Thickness | 0.361 | -- | in. | -- |
| Inside Diameter | 4.778 | 4.778 | in. | -- |
| Standard Drift | 4.653 | 4.653 | in. | -- |
| Alternate Drift | -- | -- | in. | -- |
| Nominal Linear Weight, T&C | 20.00 | -- | lb/ft | -- |
| Plain End Weight | 19.83 | -- | lb/ft | -- |
| **SECTION AREA** | **Pipe** | **USS-TALON HTQ™ RD** | | **--** |
| Critical Area | 5.828 | 5.828 | sq. in. | -- |
| Joint Efficiency | -- | 100.0 | % | [2] |
| **PERFORMANCE** | **Pipe** | **USS-TALON HTQ™ RD** | | **--** |
| Minimum Collapse Pressure | 11,100 | 11,100 | psi | -- |
| Minimum Internal Yield Pressure | 12,640 | 12,640 | psi | -- |
| Minimum Pipe Body Yield Strength | 641,000 | -- | lb | -- |
| Joint Strength | -- | 641,000 | lb | -- |
| Compression Rating | -- | 641,000 | lb | -- |
| Reference Length | -- | 21,370 | ft | [5] |
| Maximum Uniaxial Bend Rating | -- | 91.7 | deg/100 ft | [3] |
| **MAKE-UP DATA** | **Pipe** | **USS-TALON HTQ™ RD** | | **--** |
| Make-Up Loss | -- | 5.58 | in. | -- |
| Minimum Make-Up Torque | -- | 17,000 | ft-lb | [4] |
| Maximum Make-Up Torque | -- | 20,000 | ft-lb | [4] |
| Maximum Operating Torque | -- | 39,500 | ft-lb | [4] |

UNCONTROLLED

## Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

**Legal Notice**

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connections@uss.com
www.usstubular.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 |

# Long Lead_Well Planning

**PLU 15-34 BD**
**Poker Lake Unit 15-34 BD 305H**
**Poker Lake Unit 15-34 BD 305H**

**OH**

**Plan: Plan 1**

# Standard Planning Report

**07 December, 2024**

# XTO Energy

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**Project** PLU 15-34 BD

| | | | |
|---|---|---|---|
| **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** Poker Lake Unit 15-34 BD 305H

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 412,254.10 usft | **Latitude:** | 32° 7' 57.274 N |
| **From:** | Map | **Easting:** | 641,644.70 usft | **Longitude:** | 103° 52' 32.699 W |
| **Position Uncertainty:** | 3.0 usft | **Slot Radius:** | 13-3/16 " | | |

**Well** Poker Lake Unit 15-34 BD 305H

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 412,254.10 usft | **Latitude:** | 32° 7' 57.274 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 641,644.70 usft | **Longitude:** | 103° 52' 32.699 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 3,295.0 usft |
| **Grid Convergence:** | | 0.24 ° | | | | |

**Wellbore** OH

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2020 | 12/7/2024 | 6.27 | 59.66 | 47,048.01452263 |

**Design** Plan 1

**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 | 359.87 |

**Plan Survey Tool Program** **Date** 12/7/2024

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.0 | 24,808.4 | Plan 1 (OH) | XOM_R2OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St | |

# XTO Energy

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**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 | |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,897.8 | 15.96 | 356.85 | 1,887.6 | 110.2 | -6.1 | 2.00 | 2.00 | 0.00 | 356.85 | |
| 5,460.0 | 15.96 | 356.85 | 5,312.4 | 1,088.0 | -59.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,257.8 | 0.00 | 0.00 | 6,100.0 | 1,198.2 | -66.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 10,488.6 | 0.00 | 0.00 | 10,330.8 | 1,198.2 | -66.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11,613.6 | 90.00 | 359.87 | 11,047.0 | 1,914.4 | -67.6 | 8.00 | 0.00 | 0.00 | 359.87 | FTP_305H |
| 24,718.4 | 90.00 | 359.87 | 11,047.0 | 15,019.2 | -97.7 | 0.00 | 0.00 | 0.00 | 0.00 | LTP_305H |
| 24,808.4 | 90.00 | 359.87 | 11,047.0 | 15,109.2 | -97.9 | 0.00 | 0.00 | 0.00 | 0.00 | BHL_305H |

# XTO Energy

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**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 |
| **SHL_305H** | | | | | | | | | |
| 914.0 | 0.00 | 0.00 | 914.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| **Rustler** | | | | | | | | | |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,156.0 | 1.12 | 356.85 | 1,156.0 | 0.5 | 0.0 | 0.5 | 2.00 | 2.00 | 0.00 |
| **Salado** | | | | | | | | | |
| 1,200.0 | 2.00 | 356.85 | 1,200.0 | 1.7 | -0.1 | 1.7 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 4.00 | 356.85 | 1,299.8 | 7.0 | -0.4 | 7.0 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 6.00 | 356.85 | 1,399.5 | 15.7 | -0.9 | 15.7 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 8.00 | 356.85 | 1,498.7 | 27.8 | -1.5 | 27.8 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 10.00 | 356.85 | 1,597.5 | 43.5 | -2.4 | 43.5 | 2.00 | 2.00 | 0.00 |
| 1,700.0 | 12.00 | 356.85 | 1,695.6 | 62.5 | -3.4 | 62.5 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 14.00 | 356.85 | 1,793.1 | 85.0 | -4.7 | 85.0 | 2.00 | 2.00 | 0.00 |
| 1,897.8 | 15.96 | 356.85 | 1,887.6 | 110.2 | -6.1 | 110.2 | 2.00 | 2.00 | 0.00 |
| 1,900.0 | 15.96 | 356.85 | 1,889.6 | 110.8 | -6.1 | 110.8 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 15.96 | 356.85 | 1,985.8 | 138.3 | -7.6 | 138.3 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 15.96 | 356.85 | 2,081.9 | 165.7 | -9.1 | 165.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 15.96 | 356.85 | 2,178.1 | 193.2 | -10.6 | 193.2 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 15.96 | 356.85 | 2,274.2 | 220.6 | -12.1 | 220.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 15.96 | 356.85 | 2,370.4 | 248.1 | -13.7 | 248.1 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 15.96 | 356.85 | 2,466.5 | 275.5 | -15.2 | 275.5 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 15.96 | 356.85 | 2,562.7 | 303.0 | -16.7 | 303.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 15.96 | 356.85 | 2,658.8 | 330.4 | -18.2 | 330.4 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 15.96 | 356.85 | 2,755.0 | 357.9 | -19.7 | 357.9 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 15.96 | 356.85 | 2,851.1 | 385.3 | -21.2 | 385.3 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 15.96 | 356.85 | 2,947.3 | 412.8 | -22.7 | 412.8 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 15.96 | 356.85 | 3,043.4 | 440.2 | -24.2 | 440.3 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 15.96 | 356.85 | 3,139.6 | 467.6 | -25.7 | 467.7 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 15.96 | 356.85 | 3,235.7 | 495.1 | -27.3 | 495.2 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 15.96 | 356.85 | 3,331.8 | 522.5 | -28.8 | 522.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 15.96 | 356.85 | 3,428.0 | 550.0 | -30.3 | 550.1 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 15.96 | 356.85 | 3,524.1 | 577.4 | -31.8 | 577.5 | 0.00 | 0.00 | 0.00 |
| 3,635.2 | 15.96 | 356.85 | 3,558.0 | 587.1 | -32.3 | 587.2 | 0.00 | 0.00 | 0.00 |
| **Base of Salt** | | | | | | | | | |
| 3,700.0 | 15.96 | 356.85 | 3,620.3 | 604.9 | -33.3 | 605.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 15.96 | 356.85 | 3,716.4 | 632.3 | -34.8 | 632.4 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 15.96 | 356.85 | 3,812.6 | 659.8 | -36.3 | 659.9 | 0.00 | 0.00 | 0.00 |
| 3,966.0 | 15.96 | 356.85 | 3,876.0 | 677.9 | -37.3 | 678.0 | 0.00 | 0.00 | 0.00 |
| **Delaware** | | | | | | | | | |
| 4,000.0 | 15.96 | 356.85 | 3,908.7 | 687.2 | -37.8 | 687.3 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 15.96 | 356.85 | 4,004.9 | 714.7 | -39.3 | 714.8 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 15.96 | 356.85 | 4,101.0 | 742.1 | -40.9 | 742.2 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 15.96 | 356.85 | 4,197.2 | 769.6 | -42.4 | 769.7 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 15.96 | 356.85 | 4,293.3 | 797.0 | -43.9 | 797.1 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 15.96 | 356.85 | 4,389.5 | 824.5 | -45.4 | 824.6 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 15.96 | 356.85 | 4,485.6 | 851.9 | -46.9 | 852.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 15.96 | 356.85 | 4,581.8 | 879.4 | -48.4 | 879.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 15.96 | 356.85 | 4,677.9 | 906.8 | -49.9 | 906.9 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 15.96 | 356.85 | 4,774.1 | 934.3 | -51.4 | 934.4 | 0.00 | 0.00 | 0.00 |
| 4,928.0 | 15.96 | 356.85 | 4,801.0 | 942.0 | -51.9 | 942.1 | 0.00 | 0.00 | 0.00 |
| **Cherry Canyon** | | | | | | | | | |
| 5,000.0 | 15.96 | 356.85 | 4,870.2 | 961.7 | -52.9 | 961.9 | 0.00 | 0.00 | 0.00 |

# XTO Energy
## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 15.96 | 356.85 | 4,966.3 | 989.2 | -54.4 | 989.3 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 15.96 | 356.85 | 5,062.5 | 1,016.6 | -56.0 | 1,016.8 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 15.96 | 356.85 | 5,158.6 | 1,044.1 | -57.5 | 1,044.2 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 15.96 | 356.85 | 5,254.8 | 1,071.5 | -59.0 | 1,071.7 | 0.00 | 0.00 | 0.00 |
| 5,460.0 | 15.96 | 356.85 | 5,312.4 | 1,088.0 | -59.9 | 1,088.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 15.16 | 356.85 | 5,351.0 | 1,098.7 | -60.5 | 1,098.8 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 13.16 | 356.85 | 5,448.0 | 1,123.1 | -61.8 | 1,123.3 | 2.00 | -2.00 | 0.00 |
| 5,700.0 | 11.16 | 356.85 | 5,545.7 | 1,144.2 | -63.0 | 1,144.3 | 2.00 | -2.00 | 0.00 |
| 5,800.0 | 9.16 | 356.85 | 5,644.2 | 1,161.8 | -63.9 | 1,161.9 | 2.00 | -2.00 | 0.00 |
| 5,900.0 | 7.16 | 356.85 | 5,743.1 | 1,175.9 | -64.7 | 1,176.1 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 5.16 | 356.85 | 5,842.6 | 1,186.6 | -65.3 | 1,186.8 | 2.00 | -2.00 | 0.00 |
| 6,100.0 | 3.16 | 356.85 | 5,942.3 | 1,193.9 | -65.7 | 1,194.0 | 2.00 | -2.00 | 0.00 |
| 6,174.8 | 1.66 | 356.85 | 6,017.0 | 1,197.0 | -65.9 | 1,197.2 | 2.00 | -2.00 | 0.00 |
| **Brushy Canyon** | | | | | | | | | |
| 6,200.0 | 1.16 | 356.85 | 6,042.2 | 1,197.6 | -65.9 | 1,197.8 | 2.00 | -2.00 | 0.00 |
| 6,257.8 | 0.00 | 0.00 | 6,100.0 | 1,198.2 | -66.0 | 1,198.4 | 2.00 | -2.00 | 0.00 |
| 6,491.8 | 0.00 | 0.00 | 6,334.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **Brushy Canyon Lower** | | | | | | | | | |
| 7,545.8 | 0.00 | 0.00 | 7,388.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **Basal Brushy Canyon** | | | | | | | | | |
| 7,803.8 | 0.00 | 0.00 | 7,646.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **Bone Spring Lime** | | | | | | | | | |
| 7,946.8 | 0.00 | 0.00 | 7,789.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **Avalon Shale** | | | | | | | | | |
| 8,375.8 | 0.00 | 0.00 | 8,218.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **Lower Avalon Shale** | | | | | | | | | |
| 8,527.8 | 0.00 | 0.00 | 8,370.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **1st Bone Spring Lime** | | | | | | | | | |
| 8,758.8 | 0.00 | 0.00 | 8,601.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **1st Bone Spring Sand** | | | | | | | | | |
| 9,034.8 | 0.00 | 0.00 | 8,877.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **2nd Bone Spring Shale** | | | | | | | | | |
| 9,240.8 | 0.00 | 0.00 | 9,083.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **2nd Bone Spring Lime** | | | | | | | | | |
| 9,586.8 | 0.00 | 0.00 | 9,429.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **2nd Bone Spring Sand** | | | | | | | | | |
| 9,908.8 | 0.00 | 0.00 | 9,751.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **3rd Bone Spring Lime** | | | | | | | | | |
| 10,281.8 | 0.00 | 0.00 | 10,124.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **Harkey** | | | | | | | | | |
| 10,320.8 | 0.00 | 0.00 | 10,163.0 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| **3rd Bone Spring Shale** | | | | | | | | | |
| 10,488.6 | 0.00 | 0.00 | 10,330.8 | 1,198.2 | -66.0 | 1,198.4 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 0.91 | 359.87 | 10,342.2 | 1,198.3 | -66.0 | 1,198.4 | 8.00 | 8.00 | 0.00 |
| 10,600.0 | 8.91 | 359.87 | 10,441.8 | 1,206.9 | -66.0 | 1,207.0 | 8.00 | 8.00 | 0.00 |
| 10,687.3 | 15.90 | 359.87 | 10,527.0 | 1,225.6 | -66.0 | 1,225.7 | 8.00 | 8.00 | 0.00 |
| **3rd Bone Spring Sand** | | | | | | | | | |
| 10,700.0 | 16.91 | 359.87 | 10,539.1 | 1,229.2 | -66.0 | 1,229.3 | 8.00 | 8.00 | 0.00 |
| 10,800.0 | 24.91 | 359.87 | 10,632.5 | 1,264.8 | -66.1 | 1,265.0 | 8.00 | 8.00 | 0.00 |
| 10,900.0 | 32.91 | 359.87 | 10,720.0 | 1,313.2 | -66.2 | 1,313.3 | 8.00 | 8.00 | 0.00 |
| 11,000.0 | 40.91 | 359.87 | 10,799.8 | 1,373.2 | -66.4 | 1,373.3 | 8.00 | 8.00 | 0.00 |
| 11,100.0 | 48.91 | 359.87 | 10,870.6 | 1,443.7 | -66.5 | 1,443.9 | 8.00 | 8.00 | 0.00 |



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# XTO Energy
Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 11,200.0 | 56.91 | 359.87 | 10,930.9 | 1,523.4 | -66.7 | 1,523.6 | 8.00 | 8.00 | 0.00 |
| 11,285.2 | 63.72 | 359.87 | 10,973.0 | 1,597.4 | -66.9 | 1,597.5 | 8.00 | 8.00 | 0.00 |
| **Wolfcamp** | | | | | | | | | |
| 11,300.0 | 64.91 | 359.87 | 10,979.4 | 1,610.7 | -66.9 | 1,610.9 | 8.00 | 8.00 | 0.00 |
| 11,361.2 | 69.81 | 359.87 | 11,003.0 | 1,667.2 | -67.0 | 1,667.4 | 8.00 | 8.00 | 0.00 |
| **Wolfcamp X** | | | | | | | | | |
| 11,400.0 | 72.91 | 359.87 | 11,015.4 | 1,704.0 | -67.1 | 1,704.1 | 8.00 | 8.00 | 0.00 |
| 11,500.0 | 80.91 | 359.87 | 11,038.0 | 1,801.3 | -67.3 | 1,801.4 | 8.00 | 8.00 | 0.00 |
| 11,600.0 | 88.91 | 359.87 | 11,046.9 | 1,900.8 | -67.6 | 1,901.0 | 8.00 | 8.00 | 0.00 |
| 11,613.6 | 90.00 | 359.87 | 11,047.0 | 1,914.4 | -67.6 | 1,914.5 | 8.00 | 8.00 | 0.00 |
| **Wolfcamp X Landing - FTP_305H** | | | | | | | | | |
| 11,700.0 | 90.00 | 359.87 | 11,047.0 | 2,000.8 | -67.8 | 2,001.0 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 359.87 | 11,047.0 | 2,100.8 | -68.0 | 2,101.0 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 359.87 | 11,047.0 | 2,200.8 | -68.3 | 2,201.0 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 359.87 | 11,047.0 | 2,300.8 | -68.5 | 2,301.0 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 359.87 | 11,047.0 | 2,400.8 | -68.7 | 2,401.0 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 359.87 | 11,047.0 | 2,500.8 | -68.9 | 2,501.0 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 359.87 | 11,047.0 | 2,600.8 | -69.2 | 2,601.0 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 359.87 | 11,047.0 | 2,700.8 | -69.4 | 2,701.0 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 359.87 | 11,047.0 | 2,800.8 | -69.6 | 2,801.0 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 359.87 | 11,047.0 | 2,900.8 | -69.9 | 2,901.0 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 359.87 | 11,047.0 | 3,000.8 | -70.1 | 3,001.0 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 359.87 | 11,047.0 | 3,100.8 | -70.3 | 3,101.0 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 359.87 | 11,047.0 | 3,200.8 | -70.6 | 3,201.0 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 359.87 | 11,047.0 | 3,300.8 | -70.8 | 3,301.0 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 359.87 | 11,047.0 | 3,400.8 | -71.0 | 3,401.0 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 359.87 | 11,047.0 | 3,500.8 | -71.2 | 3,501.0 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 359.87 | 11,047.0 | 3,600.8 | -71.5 | 3,601.0 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 359.87 | 11,047.0 | 3,700.8 | -71.7 | 3,701.0 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 359.87 | 11,047.0 | 3,800.8 | -71.9 | 3,801.0 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 359.87 | 11,047.0 | 3,900.8 | -72.2 | 3,901.0 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 359.87 | 11,047.0 | 4,000.8 | -72.4 | 4,001.0 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 359.87 | 11,047.0 | 4,100.8 | -72.6 | 4,101.0 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 359.87 | 11,047.0 | 4,200.8 | -72.9 | 4,201.0 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 359.87 | 11,047.0 | 4,300.8 | -73.1 | 4,301.0 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 359.87 | 11,047.0 | 4,400.8 | -73.3 | 4,401.0 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 359.87 | 11,047.0 | 4,500.8 | -73.5 | 4,501.0 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 359.87 | 11,047.0 | 4,600.8 | -73.8 | 4,601.0 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 359.87 | 11,047.0 | 4,700.8 | -74.0 | 4,701.0 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 359.87 | 11,047.0 | 4,800.8 | -74.2 | 4,801.0 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 359.87 | 11,047.0 | 4,900.8 | -74.5 | 4,901.0 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 359.87 | 11,047.0 | 5,000.8 | -74.7 | 5,001.0 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 359.87 | 11,047.0 | 5,100.8 | -74.9 | 5,101.0 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 359.87 | 11,047.0 | 5,200.8 | -75.1 | 5,201.0 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 359.87 | 11,047.0 | 5,300.8 | -75.4 | 5,301.0 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 359.87 | 11,047.0 | 5,400.8 | -75.6 | 5,401.0 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 359.87 | 11,047.0 | 5,500.8 | -75.8 | 5,501.0 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 359.87 | 11,047.0 | 5,600.8 | -76.1 | 5,601.0 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 359.87 | 11,047.0 | 5,700.8 | -76.3 | 5,701.0 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 359.87 | 11,047.0 | 5,800.8 | -76.5 | 5,801.0 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 359.87 | 11,047.0 | 5,900.8 | -76.8 | 5,901.0 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 359.87 | 11,047.0 | 6,000.8 | -77.0 | 6,001.0 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 359.87 | 11,047.0 | 6,100.8 | -77.2 | 6,101.0 | 0.00 | 0.00 | 0.00 |

# XTO Energy

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 15,900.0 | 90.00 | 359.87 | 11,047.0 | 6,200.8 | -77.4 | 6,201.0 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 359.87 | 11,047.0 | 6,300.8 | -77.7 | 6,301.0 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 359.87 | 11,047.0 | 6,400.8 | -77.9 | 6,401.0 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 359.87 | 11,047.0 | 6,500.8 | -78.1 | 6,501.0 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 359.87 | 11,047.0 | 6,600.8 | -78.4 | 6,601.0 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 359.87 | 11,047.0 | 6,700.8 | -78.6 | 6,701.0 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 359.87 | 11,047.0 | 6,800.8 | -78.8 | 6,801.0 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 359.87 | 11,047.0 | 6,900.8 | -79.1 | 6,901.0 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 359.87 | 11,047.0 | 7,000.8 | -79.3 | 7,001.0 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 359.87 | 11,047.0 | 7,100.8 | -79.5 | 7,101.0 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 359.87 | 11,047.0 | 7,200.8 | -79.7 | 7,201.0 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 359.87 | 11,047.0 | 7,300.8 | -80.0 | 7,301.0 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 359.87 | 11,047.0 | 7,400.8 | -80.2 | 7,401.0 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 359.87 | 11,047.0 | 7,500.8 | -80.4 | 7,501.0 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 359.87 | 11,047.0 | 7,600.8 | -80.7 | 7,601.0 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 359.87 | 11,047.0 | 7,700.8 | -80.9 | 7,701.0 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 359.87 | 11,047.0 | 7,800.8 | -81.1 | 7,801.0 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 359.87 | 11,047.0 | 7,900.8 | -81.3 | 7,901.0 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 359.87 | 11,047.0 | 8,000.8 | -81.6 | 8,001.0 | 0.00 | 0.00 | 0.00 |
| 17,800.0 | 90.00 | 359.87 | 11,047.0 | 8,100.8 | -81.8 | 8,101.0 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 359.87 | 11,047.0 | 8,200.8 | -82.0 | 8,201.0 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 359.87 | 11,047.0 | 8,300.8 | -82.3 | 8,301.0 | 0.00 | 0.00 | 0.00 |
| 18,100.0 | 90.00 | 359.87 | 11,047.0 | 8,400.8 | -82.5 | 8,401.0 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 359.87 | 11,047.0 | 8,500.8 | -82.7 | 8,501.0 | 0.00 | 0.00 | 0.00 |
| 18,300.0 | 90.00 | 359.87 | 11,047.0 | 8,600.8 | -83.0 | 8,601.0 | 0.00 | 0.00 | 0.00 |
| 18,400.0 | 90.00 | 359.87 | 11,047.0 | 8,700.8 | -83.2 | 8,701.0 | 0.00 | 0.00 | 0.00 |
| 18,500.0 | 90.00 | 359.87 | 11,047.0 | 8,800.8 | -83.4 | 8,801.0 | 0.00 | 0.00 | 0.00 |
| 18,600.0 | 90.00 | 359.87 | 11,047.0 | 8,900.8 | -83.6 | 8,901.0 | 0.00 | 0.00 | 0.00 |
| 18,700.0 | 90.00 | 359.87 | 11,047.0 | 9,000.8 | -83.9 | 9,001.0 | 0.00 | 0.00 | 0.00 |
| 18,800.0 | 90.00 | 359.87 | 11,047.0 | 9,100.8 | -84.1 | 9,101.0 | 0.00 | 0.00 | 0.00 |
| 18,900.0 | 90.00 | 359.87 | 11,047.0 | 9,200.8 | -84.3 | 9,201.0 | 0.00 | 0.00 | 0.00 |
| 19,000.0 | 90.00 | 359.87 | 11,047.0 | 9,300.8 | -84.6 | 9,301.0 | 0.00 | 0.00 | 0.00 |
| 19,100.0 | 90.00 | 359.87 | 11,047.0 | 9,400.8 | -84.8 | 9,401.0 | 0.00 | 0.00 | 0.00 |
| 19,200.0 | 90.00 | 359.87 | 11,047.0 | 9,500.8 | -85.0 | 9,501.0 | 0.00 | 0.00 | 0.00 |
| 19,300.0 | 90.00 | 359.87 | 11,047.0 | 9,600.8 | -85.3 | 9,601.0 | 0.00 | 0.00 | 0.00 |
| 19,400.0 | 90.00 | 359.87 | 11,047.0 | 9,700.8 | -85.5 | 9,701.0 | 0.00 | 0.00 | 0.00 |
| 19,500.0 | 90.00 | 359.87 | 11,047.0 | 9,800.8 | -85.7 | 9,801.0 | 0.00 | 0.00 | 0.00 |
| 19,600.0 | 90.00 | 359.87 | 11,047.0 | 9,900.8 | -85.9 | 9,901.0 | 0.00 | 0.00 | 0.00 |
| 19,700.0 | 90.00 | 359.87 | 11,047.0 | 10,000.8 | -86.2 | 10,001.0 | 0.00 | 0.00 | 0.00 |
| 19,800.0 | 90.00 | 359.87 | 11,047.0 | 10,100.8 | -86.4 | 10,101.0 | 0.00 | 0.00 | 0.00 |
| 19,900.0 | 90.00 | 359.87 | 11,047.0 | 10,200.8 | -86.6 | 10,201.0 | 0.00 | 0.00 | 0.00 |
| 20,000.0 | 90.00 | 359.87 | 11,047.0 | 10,300.8 | -86.9 | 10,301.0 | 0.00 | 0.00 | 0.00 |
| 20,100.0 | 90.00 | 359.87 | 11,047.0 | 10,400.8 | -87.1 | 10,401.0 | 0.00 | 0.00 | 0.00 |
| 20,200.0 | 90.00 | 359.87 | 11,047.0 | 10,500.8 | -87.3 | 10,501.0 | 0.00 | 0.00 | 0.00 |
| 20,300.0 | 90.00 | 359.87 | 11,047.0 | 10,600.8 | -87.6 | 10,601.0 | 0.00 | 0.00 | 0.00 |
| 20,400.0 | 90.00 | 359.87 | 11,047.0 | 10,700.8 | -87.8 | 10,701.0 | 0.00 | 0.00 | 0.00 |
| 20,500.0 | 90.00 | 359.87 | 11,047.0 | 10,800.8 | -88.0 | 10,801.0 | 0.00 | 0.00 | 0.00 |
| 20,600.0 | 90.00 | 359.87 | 11,047.0 | 10,900.8 | -88.2 | 10,901.0 | 0.00 | 0.00 | 0.00 |
| 20,700.0 | 90.00 | 359.87 | 11,047.0 | 11,000.8 | -88.5 | 11,001.0 | 0.00 | 0.00 | 0.00 |
| 20,800.0 | 90.00 | 359.87 | 11,047.0 | 11,100.8 | -88.7 | 11,101.0 | 0.00 | 0.00 | 0.00 |
| 20,900.0 | 90.00 | 359.87 | 11,047.0 | 11,200.8 | -88.9 | 11,201.0 | 0.00 | 0.00 | 0.00 |
| 21,000.0 | 90.00 | 359.87 | 11,047.0 | 11,300.8 | -89.2 | 11,301.0 | 0.00 | 0.00 | 0.00 |
| 21,100.0 | 90.00 | 359.87 | 11,047.0 | 11,400.8 | -89.4 | 11,401.0 | 0.00 | 0.00 | 0.00 |
| 21,200.0 | 90.00 | 359.87 | 11,047.0 | 11,500.8 | -89.6 | 11,501.0 | 0.00 | 0.00 | 0.00 |

# XTO Energy

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**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) |
|---|---|---|---|---|---|---|---|---|---|
| 21,300.0 | 90.00 | 359.87 | 11,047.0 | 11,600.8 | -89.8 | 11,601.0 | 0.00 | 0.00 | 0.00 |
| 21,400.0 | 90.00 | 359.87 | 11,047.0 | 11,700.8 | -90.1 | 11,701.0 | 0.00 | 0.00 | 0.00 |
| 21,500.0 | 90.00 | 359.87 | 11,047.0 | 11,800.8 | -90.3 | 11,801.0 | 0.00 | 0.00 | 0.00 |
| 21,600.0 | 90.00 | 359.87 | 11,047.0 | 11,900.8 | -90.5 | 11,901.0 | 0.00 | 0.00 | 0.00 |
| 21,700.0 | 90.00 | 359.87 | 11,047.0 | 12,000.8 | -90.8 | 12,001.0 | 0.00 | 0.00 | 0.00 |
| 21,800.0 | 90.00 | 359.87 | 11,047.0 | 12,100.8 | -91.0 | 12,101.0 | 0.00 | 0.00 | 0.00 |
| 21,900.0 | 90.00 | 359.87 | 11,047.0 | 12,200.8 | -91.2 | 12,201.0 | 0.00 | 0.00 | 0.00 |
| 22,000.0 | 90.00 | 359.87 | 11,047.0 | 12,300.8 | -91.5 | 12,301.0 | 0.00 | 0.00 | 0.00 |
| 22,100.0 | 90.00 | 359.87 | 11,047.0 | 12,400.8 | -91.7 | 12,401.0 | 0.00 | 0.00 | 0.00 |
| 22,200.0 | 90.00 | 359.87 | 11,047.0 | 12,500.8 | -91.9 | 12,501.0 | 0.00 | 0.00 | 0.00 |
| 22,300.0 | 90.00 | 359.87 | 11,047.0 | 12,600.8 | -92.1 | 12,601.0 | 0.00 | 0.00 | 0.00 |
| 22,400.0 | 90.00 | 359.87 | 11,047.0 | 12,700.8 | -92.4 | 12,701.0 | 0.00 | 0.00 | 0.00 |
| 22,500.0 | 90.00 | 359.87 | 11,047.0 | 12,800.8 | -92.6 | 12,801.0 | 0.00 | 0.00 | 0.00 |
| 22,600.0 | 90.00 | 359.87 | 11,047.0 | 12,900.8 | -92.8 | 12,901.0 | 0.00 | 0.00 | 0.00 |
| 22,700.0 | 90.00 | 359.87 | 11,047.0 | 13,000.8 | -93.1 | 13,001.0 | 0.00 | 0.00 | 0.00 |
| 22,800.0 | 90.00 | 359.87 | 11,047.0 | 13,100.8 | -93.3 | 13,101.0 | 0.00 | 0.00 | 0.00 |
| 22,900.0 | 90.00 | 359.87 | 11,047.0 | 13,200.8 | -93.5 | 13,201.0 | 0.00 | 0.00 | 0.00 |
| 23,000.0 | 90.00 | 359.87 | 11,047.0 | 13,300.8 | -93.8 | 13,301.0 | 0.00 | 0.00 | 0.00 |
| 23,100.0 | 90.00 | 359.87 | 11,047.0 | 13,400.8 | -94.0 | 13,401.0 | 0.00 | 0.00 | 0.00 |
| 23,200.0 | 90.00 | 359.87 | 11,047.0 | 13,500.8 | -94.2 | 13,501.0 | 0.00 | 0.00 | 0.00 |
| 23,300.0 | 90.00 | 359.87 | 11,047.0 | 13,600.8 | -94.4 | 13,601.0 | 0.00 | 0.00 | 0.00 |
| 23,400.0 | 90.00 | 359.87 | 11,047.0 | 13,700.8 | -94.7 | 13,701.0 | 0.00 | 0.00 | 0.00 |
| 23,500.0 | 90.00 | 359.87 | 11,047.0 | 13,800.8 | -94.9 | 13,801.0 | 0.00 | 0.00 | 0.00 |
| 23,600.0 | 90.00 | 359.87 | 11,047.0 | 13,900.8 | -95.1 | 13,901.0 | 0.00 | 0.00 | 0.00 |
| 23,700.0 | 90.00 | 359.87 | 11,047.0 | 14,000.8 | -95.4 | 14,001.0 | 0.00 | 0.00 | 0.00 |
| 23,800.0 | 90.00 | 359.87 | 11,047.0 | 14,100.8 | -95.6 | 14,101.0 | 0.00 | 0.00 | 0.00 |
| 23,900.0 | 90.00 | 359.87 | 11,047.0 | 14,200.8 | -95.8 | 14,201.0 | 0.00 | 0.00 | 0.00 |
| 24,000.0 | 90.00 | 359.87 | 11,047.0 | 14,300.8 | -96.0 | 14,301.0 | 0.00 | 0.00 | 0.00 |
| 24,100.0 | 90.00 | 359.87 | 11,047.0 | 14,400.8 | -96.3 | 14,401.0 | 0.00 | 0.00 | 0.00 |
| 24,200.0 | 90.00 | 359.87 | 11,047.0 | 14,500.8 | -96.5 | 14,501.0 | 0.00 | 0.00 | 0.00 |
| 24,300.0 | 90.00 | 359.87 | 11,047.0 | 14,600.8 | -96.7 | 14,601.0 | 0.00 | 0.00 | 0.00 |
| 24,400.0 | 90.00 | 359.87 | 11,047.0 | 14,700.8 | -97.0 | 14,701.0 | 0.00 | 0.00 | 0.00 |
| 24,500.0 | 90.00 | 359.87 | 11,047.0 | 14,800.8 | -97.2 | 14,801.0 | 0.00 | 0.00 | 0.00 |
| 24,600.0 | 90.00 | 359.87 | 11,047.0 | 14,900.8 | -97.4 | 14,901.0 | 0.00 | 0.00 | 0.00 |
| 24,700.0 | 90.00 | 359.87 | 11,047.0 | 15,000.8 | -97.7 | 15,001.0 | 0.00 | 0.00 | 0.00 |
| 24,718.4 | 90.00 | 359.87 | 11,047.0 | 15,019.2 | -97.7 | 15,019.4 | 0.00 | 0.00 | 0.00 |
| **LTP_305H** | | | | | | | | | |
| 24,800.0 | 90.00 | 359.87 | 11,047.0 | 15,100.8 | -97.9 | 15,101.0 | 0.00 | 0.00 | 0.00 |
| 24,808.4 | 90.00 | 359.87 | 11,047.0 | 15,109.2 | -97.9 | 15,109.4 | 0.00 | 0.00 | 0.00 |
| **BHL_305H** | | | | | | | | | |



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# XTO Energy
## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | LMRKPROD3 | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | Long Lead_Well Planning | **TVD Reference:** | RKB (+32) @ 3327.0usft |
| **Project:** | PLU 15-34 BD | **MD Reference:** | RKB (+32) @ 3327.0usft |
| **Site:** | Poker Lake Unit 15-34 BD 305H | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**Design Targets**

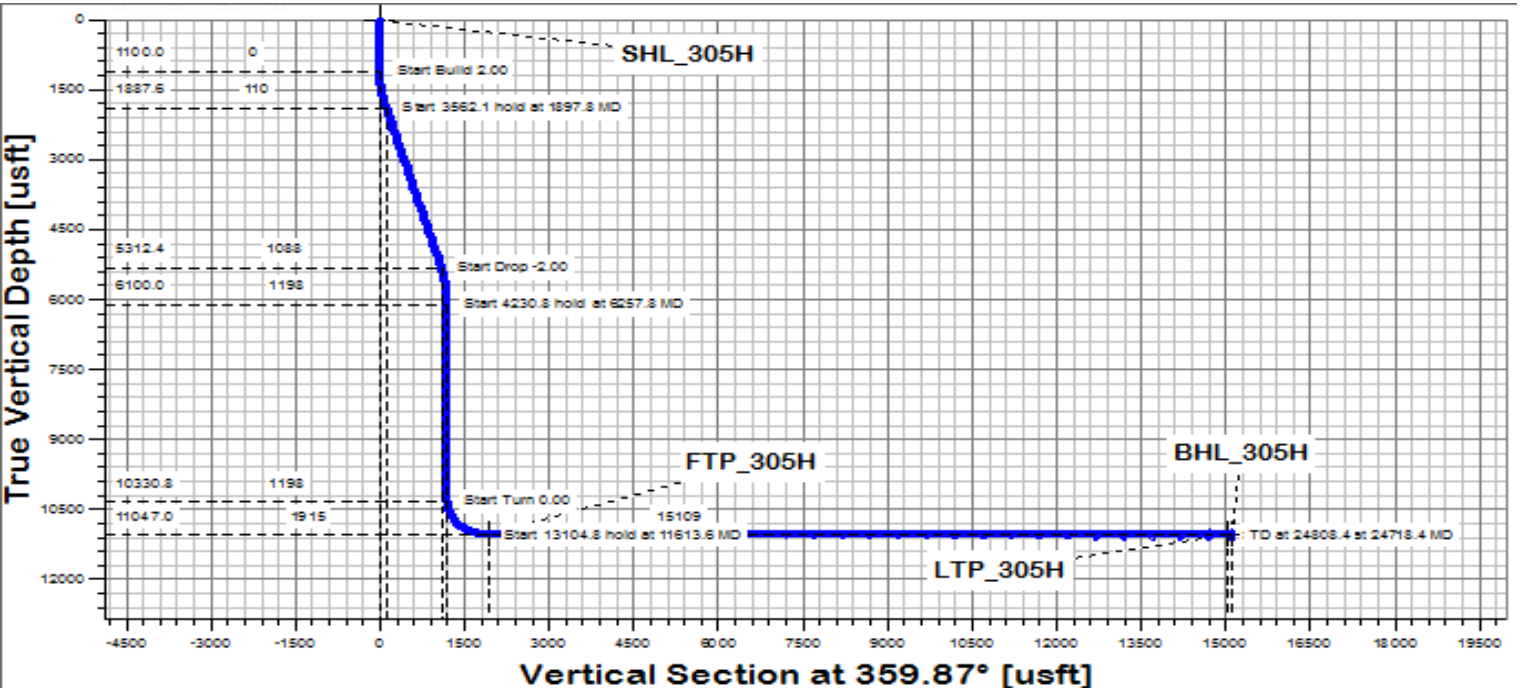
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| SHL_305H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 412,254.10 | 641,644.70 | 32° 7' 57.274 N | 103° 52' 32.699 W |
| BHL_305H<br>- plan misses target center by 0.8usft at 24808.4usft MD (11047.0 TVD, 15109.2 N, -97.9 E)<br>- Point | 0.00 | 0.00 | 11,047.0 | 15,109.2 | -98.7 | 427,363.30 | 641,546.00 | 32° 10' 26.801 N | 103° 52' 33.100 W |
| FTP_305H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 11,047.0 | 1,914.4 | -67.6 | 414,168.50 | 641,577.10 | 32° 8' 16.222 N | 103° 52' 33.390 W |
| LTP_305H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 11,047.0 | 15,019.2 | -97.7 | 427,273.30 | 641,547.00 | 32° 10' 25.911 N | 103° 52' 33.093 W |

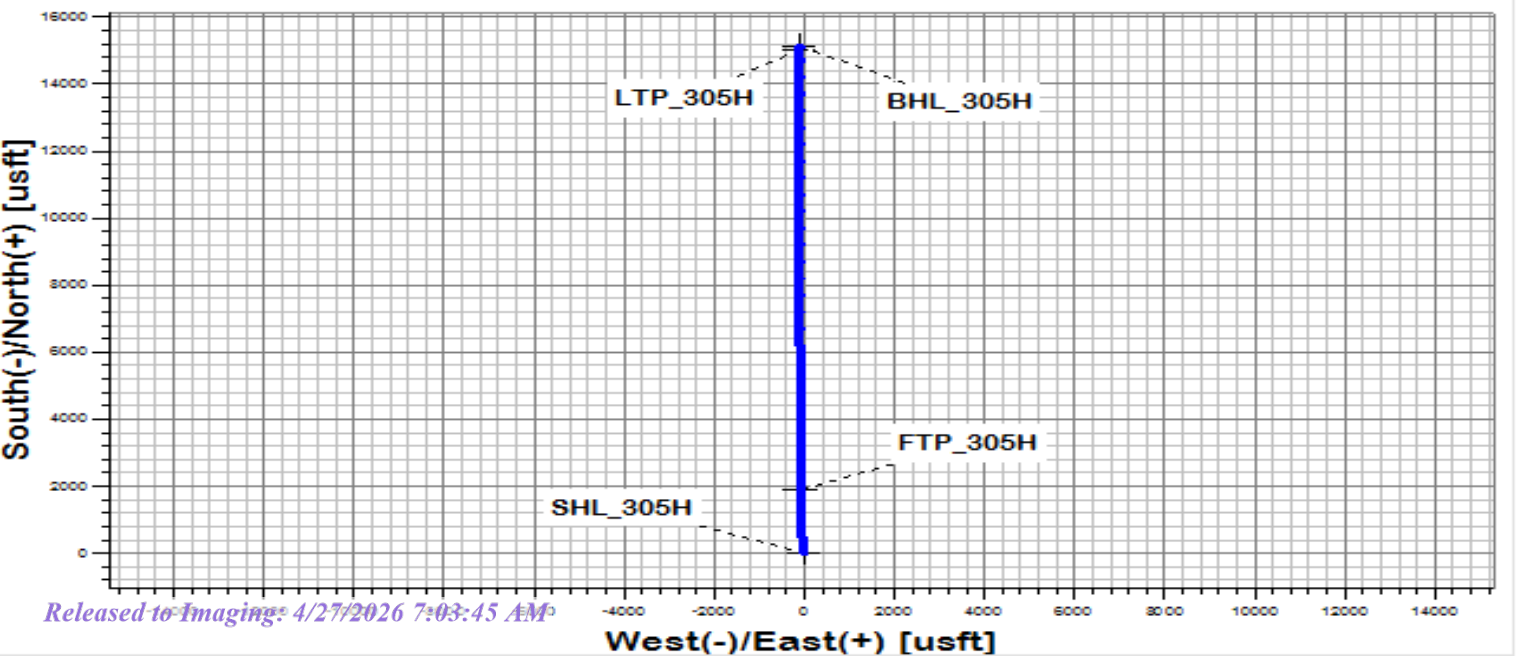
**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 914.0 | 914.0 | Rustler | | | |
| 1,156.0 | 1,156.0 | Salado | | | |
| 3,635.2 | 3,558.0 | Base of Salt | | | |
| 3,966.0 | 3,876.0 | Delaware | | | |
| 4,928.0 | 4,801.0 | Cherry Canyon | | | |
| 6,174.8 | 6,017.0 | Brushy Canyon | | | |
| 6,491.8 | 6,334.0 | Brushy Canyon Lower | | | |
| 7,545.8 | 7,388.0 | Basal Brushy Canyon | | | |
| 7,803.8 | 7,646.0 | Bone Spring Lime | | | |
| 7,946.8 | 7,789.0 | Avalon Shale | | | |
| 8,375.8 | 8,218.0 | Lower Avalon Shale | | | |
| 8,527.8 | 8,370.0 | 1st Bone Spring Lime | | | |
| 8,758.8 | 8,601.0 | 1st Bone Spring Sand | | | |
| 9,034.8 | 8,877.0 | 2nd Bone Spring Shale | | | |
| 9,240.8 | 9,083.0 | 2nd Bone Spring Lime | | | |
| 9,586.8 | 9,429.0 | 2nd Bone Spring Sand | | | |
| 9,908.8 | 9,751.0 | 3rd Bone Spring Lime | | | |
| 10,281.8 | 10,124.0 | Harkey | | | |
| 10,320.8 | 10,163.0 | 3rd Bone Spring Shale | | | |
| 10,687.3 | 10,527.0 | 3rd Bone Spring Sand | | | |
| 11,285.2 | 10,973.0 | Wolfcamp | | | |
| 11,361.2 | 11,003.0 | Wolfcamp X | | | |
| 11,613.6 | 11,047.0 | Wolfcamp X Landing | | | |



Released to Imaging: 4/27/2026 7:03:45 AM





# Well Name: Poker Lake Unit 15-34 BD 305H

Received by OCD: 4/20/2026 4:36:40 PM

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| Formation | TVDSS (feet) | TVD (feet) |
|---|---|---|
| R□s□er | 2412 .73 | 914' |
| Sa□ado | 21 71.37 | 1 □156' |
| □ase o□Sa□□ | -231 .39 | 3 □558' |
| De a□ are | □548.92 | 3 □876' |
| C□err□Ca□□o□ | -1 □73.84 | 4 □801' |
| Br u s hy □Ca□□o□ | -2 □89.91 | 6,0 □7' |
| Br u s hy □Ca□□o□□□o□ er | □□00 □.72 | 6 □□34' |
| □asa□Br u s hy □Ca□□o□ | □4□□0.□8 | 7 □388' |
| □o□e Spr□□□□□□ e | □4□□9.□7 | 7 □6□6' |
| A□a o□S□a e | □□46 □.□8 | 7 □789' |
| □o□ er A□a o□S□a e | -4 890 .□5 | 8,2 □8' |
| 1s□□□o□e Spr□□□□Lim e | □5043 .49 | 8 □370' |
| 1s□□□o□e Spr□□□Sa□d | □5□73.92 | 8 □6□1' |
| 2□d□□o□e Spr□□□S□a e | □5549.91 | 8 □877' |
| 2□d□□o□e Spr□□□Lim e | □575□.□7 | 9 □□83' |
| 2□d□□o□e Spr□□□Sa□d | -6102 .43 | 9 □429' |
| □rd□□o□e Spr□□□Lim e | □642 □.69 | 9 □751' |
| □ar□e□ | □67□7.□5 | 10,124' |
| 3rd□□o□e Spr□□□S□a e | □6836 .14 | 10,163' |
| □rd□□o□e Spr□□□Sa□d | □719 □.99 | 10 □5□7' |
| □ o□□ca□ p | □7646 .02 | 10,9 □73' |
| □ o□□ca□ p□X | □7□75.59 | 11,003' |
| □ o□□ca□ p□X□L a n d ing | -7□720' | 11,04 □7' |
| □ o□□ca□ p□Y | □7764 .33 | 11,091' |
| □ o□□ca□ p□A | □7799 .71 | 11,12 □7' |
| □ o□□ca□ p□B | □8196 .03 | 11 □523' |
| □ o□□ca□ p□C | □8□73.□5 | 11 □700' |
| □ o□□ca□ p□D | □859 □.03 | 11 □□26' |
| □ o□□ca□ p□E | □8□56.□5 | 11,9 □84□ |
| □ o□□ca□ p□F | □8□507' | 11 □834' |

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

# NATURAL GAS MANAGEMENT PLAN

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

## Section 1 – Plan Description

**Effective May 25, 2021**

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

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

If Other, please describe: _____

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

| Well Name | API | ULSTR | Footages | 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 |
|---|---|---|---|---|---|---|---|---|---|
| □o□er La□e □ni□1 □□27 BD 101H | TBD | 16 T25S R30E | 1558 FNL, 69 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 102H | TBD | 16 T25S R30E | 1559 FNL, 39 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 10□H | TBD | 16 T25S R30E | 1559 FNL, 9 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 104H | TBD | 15 T25S R30E | 1559 FNL, 21 FWL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 201H | TBD | 16 T25S R30E | 1683 FNL, 69 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 202H | TBD | 16 T25S R30E | 1684 FNL, 39 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 20□H | TBD | 16 T25S R30E | 1684 FNL, 9 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 204H | TBD | 15 T25S R30E | 1684 FNL, 21 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD □01H | TBD | 16 T25S R30E | 1808 FNL, 70 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| □o□er La□e □ni□1 □□27 BD □02H | TBD | 16 T25S R30E | 1809 FNL, 40 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 402H | TBD | 15 T25S R30E | 1265 FNL, 2303 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 16 T25S R30E | 1809 FNL, 10 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD □04H | TBD | 15 T25S R30E | 1809 FNL, 20 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 401H | TBD | 15 T25S R30E | 1265 FNL, 2333 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 40□H | TBD | 15 T25S R30E | 1265 FNL, 2273 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 404H | TBD | 15 T25S R30E | 1265 FNL, 2243 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 40□H | TBD | 15 T25S R30E | 1265 FNL, 2213 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD 40□H | TBD | 15 T25S R30E | 1265 FNL, 2183 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □01H | TBD | 15 T25S R30E | 1390 FNL, 2331 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □02H | TBD | 15 T25S R30E | 1390 FNL, 2301 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 15 T25S R30E | 1390 FNL, 2271 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □04H | TBD | 15 T25S R30E | 1390 FNL, 2241 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 15 T25S R30E | 1390 FNL, 2211 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 15 T25S R30E | 1390 FNL, 2181 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□27 BD □01H | TBD | 15 T25S R30E | 1515 FNL, 2329 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD □02H | TBD | 15 T25S R30E | 1515 FNL, 2299 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 15 T25S R30E | 1515 FNL, 2269 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD □04H | TBD | 15 T25S R30E | 1515 FNL, 2239 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 15 T25S R30E | 1515 FNL, 2209 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| □o□er La□e □ni□1 □□27 BD □0□H | TBD | 15 T25S R30E | 1515 FNL, 2179 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 701H | TBD | 15 T25S R30E | 1640 FNL, 2326 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 702H | TBD | 15 T25S R30E | 1640 FNL, 2296 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 70□H | TBD | 15 T25S R30E | 1640 FNL, 2266 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 704H | TBD | 15 T25S R30E | 1640 FNL, 2236 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 70□H | TBD | 15 T25S R30E | 1640 FNL, 2206 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□27 BD 70□H | TBD | 15 T25S R30E | 1640 FNL, 2176 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 10□H | TBD | 15 T25S R30E | 1565 FNL, 421 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 10□H | TBD | 15 T25S R30E | 1566 FNL, 451 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 107H | TBD | 15 T25S R30E | 1566 FNL, 481 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 10□H | TBD | 15 T25S R30E | 1567 FNL, 511 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 20□H | TBD | 15 T25S R30E | 1690 FNL, 421 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 20□H | TBD | 15 T25S R30E | 1691 FNL, 451 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 207H | TBD | 15 T25S R30E | 1691 FNL, 481 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 20□H | TBD | 15 T25S R30E | 1692 FNL, 511 FWL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1815 FNL, 420 FWL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1816 FNL, 450 FWL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □07H | TBD | 15 T25S R30E | 1816 FNL, 480 FWL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1817 FNL, 510 FWL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD 407H | TBD | 15 T25S R30E | 1265 FNL, 1783 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| □o□er La□e □ni□1 □□□4 BD 40□H | TBD | 15 T25S R30E | 1265 FNL, 1754 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 40□H | TBD | 15 T25S R30E | 1265 FNL, 1724 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 410H | TBD | 15 T25S R30E | 1265 FNL, 1694 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 411H | TBD | 15 T25S R30E | 1265 FNL, 1664 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD 412H | TBD | 15 T25S R30E | 1265 FNL, 1634 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □07H | TBD | 15 T25S R30E | 1390 FNL, 1781 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1390 FNL, 1751 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1390 FNL, 1721 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □10H | TBD | 15 T25S R30E | 1390 FNL, 1691 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □11H | TBD | 15 T25S R30E | 1390 FNL, 1661 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □12H | TBD | 15 T25S R30E | 1390 FNL, 1631 FEL | 1,900 | 200 | 3,250 | 900 | 3,750 | 400 |
| □o□er La□e □ni□1 □□□4 BD □07H | TBD | 15 T25S R30E | 1515 FNL, 1779 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1515 FNL, 1749 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □0□H | TBD | 15 T25S R30E | 1515 FNL, 1719 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □10H | TBD | 15 T25S R30E | 1515 FNL, 1689 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □11H | TBD | 15 T25S R30E | 1515 FNL, 1659 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD □12H | TBD | 15 T25S R30E | 1515 FNL, 1629 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD 707H | TBD | 15 T25S R30E | 1640 FNL, 1776 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD 70□H | TBD | 15 T25S R30E | 1640 FNL, 1746 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1 □□□4 BD 70□H | TBD | 15 T25S R30E | 1640 FNL, 1716 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| □o□er La□e □ni□1□□□4 BD 710H | TBD | 15 T25S R30E | 1640 FNL, 1686 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1□□□4 BD 711H | TBD | 15 T25S R30E | 1640 FNL, 1656 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |
| □o□er La□e □ni□1□□□4 BD 712H | TBD | 15 T25S R30E | 1640 FNL, 1626 FEL | 1,800 | 200 | 7,500 | 1,200 | 7,000 | 800 |

**IV. Central Delivery Point Name:** POKER LAKE UNIT SECTION 15 EAST & WEST CVB [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 |
|---|---|---|---|---|---|---|
| □o□er La□e □ni□1□□ 27 BD 101H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 102H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 10□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 104H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 201H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 202H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 20□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 204H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □01H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □02H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 402H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □04H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 401H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 40□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 404H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 40□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 40□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □01H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □02H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| □o□er La□e □ni□1□□ 27 BD □04H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □01H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □02H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □04H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 701H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 702H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 70□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 704H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 70□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ 27 BD 70□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 10□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 10□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 107H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 10□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 20□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 20□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 207H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 20□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □07H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 407H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 40□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 40□H | TBD | TBD | TBD | TBD | TBD | TBD |

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|---|---|---|---|---|---|---|
| □o□er La□e □ni□1□□ □4 BD 410H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 411H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 412H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □07H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □10H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □11H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □12H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □07H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □0□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □10H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □11H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD □12H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 707H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 70□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 70□H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 710H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 711H | TBD | TBD | TBD | TBD | TBD | TBD |
| □o□er La□e □ni□1□□ □4 BD 712H | TBD | TBD | TBD | TBD | TBD | TBD |

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

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

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

# Section 2 – Enhanced Plan

**EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

## Section 3 - Certifications

**Effective May 25, 2021**

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

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

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

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

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

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

## Section 4 - Notices

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

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

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

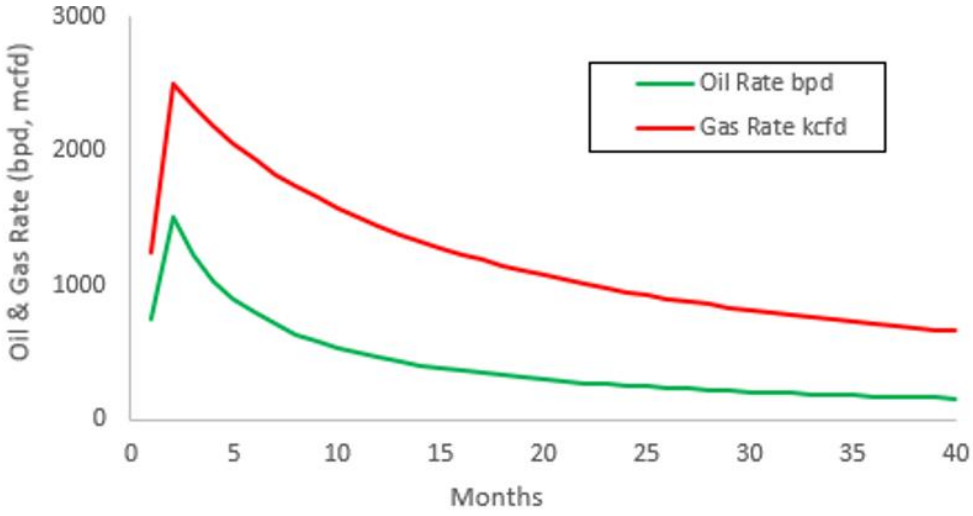
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural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

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

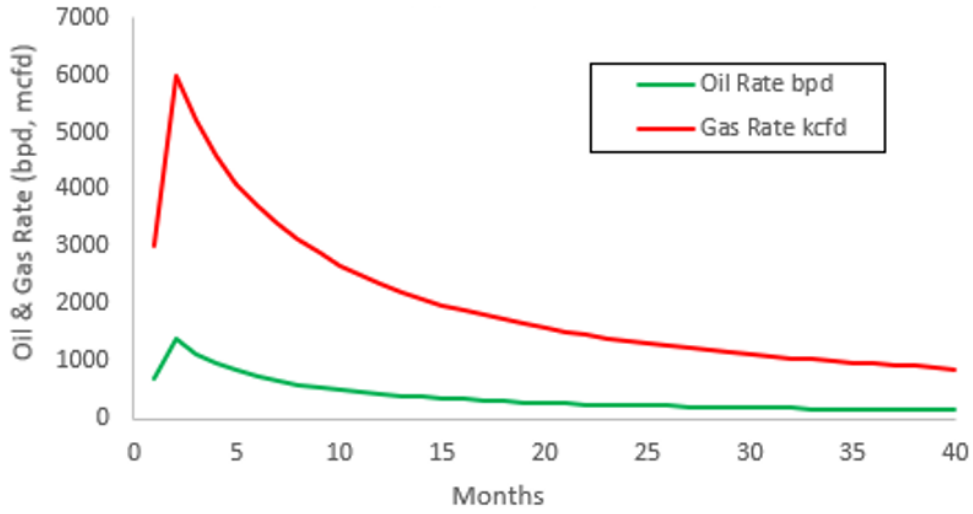
| |
|---|
| Signature: Vishal Rajan |
| Printed Name: VISHAL RAJAN |
| Title: REGULATORY ANALYST |
| E-mail Address: vishal.rajan@exxonmobil.com |
| Date: 12/16/2024 |
| Phone: 346-225-9159 |
| **OIL CONSERVATION DIVISION**<br>**(Only applicable when submitted as a standalone form)** |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |

**Poker Lake Unit – Decline Curves**

**Bone Spring:**




**Wolfcamp:**



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 in-feasible, 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 LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.

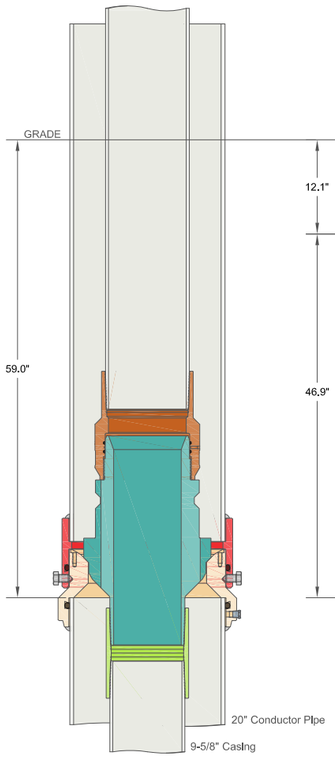
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:

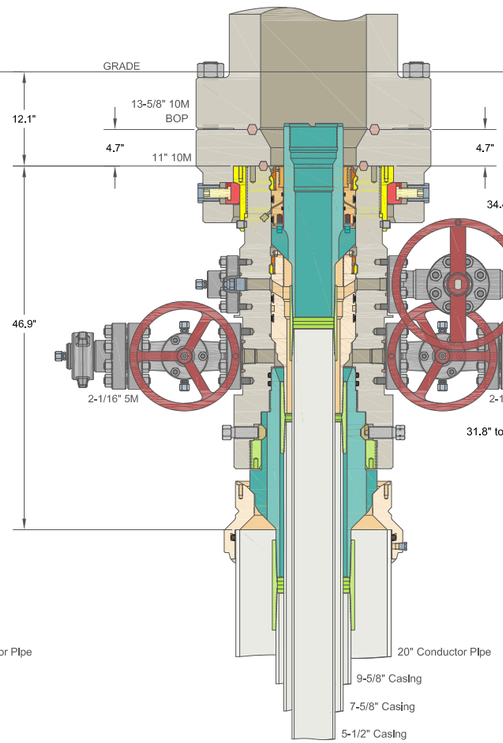
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

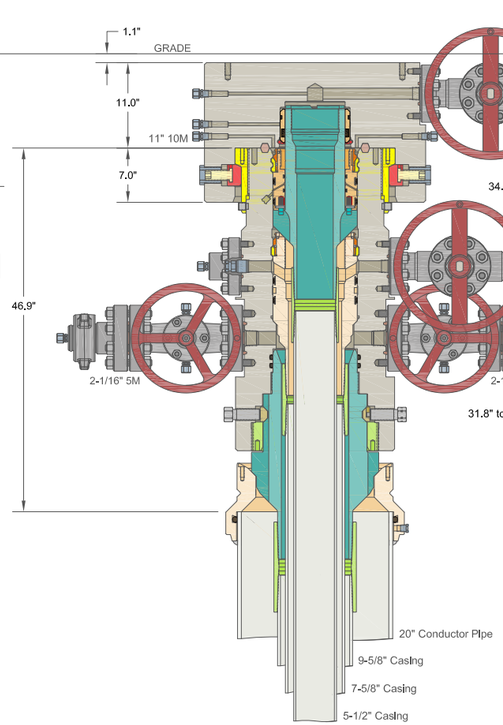
- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

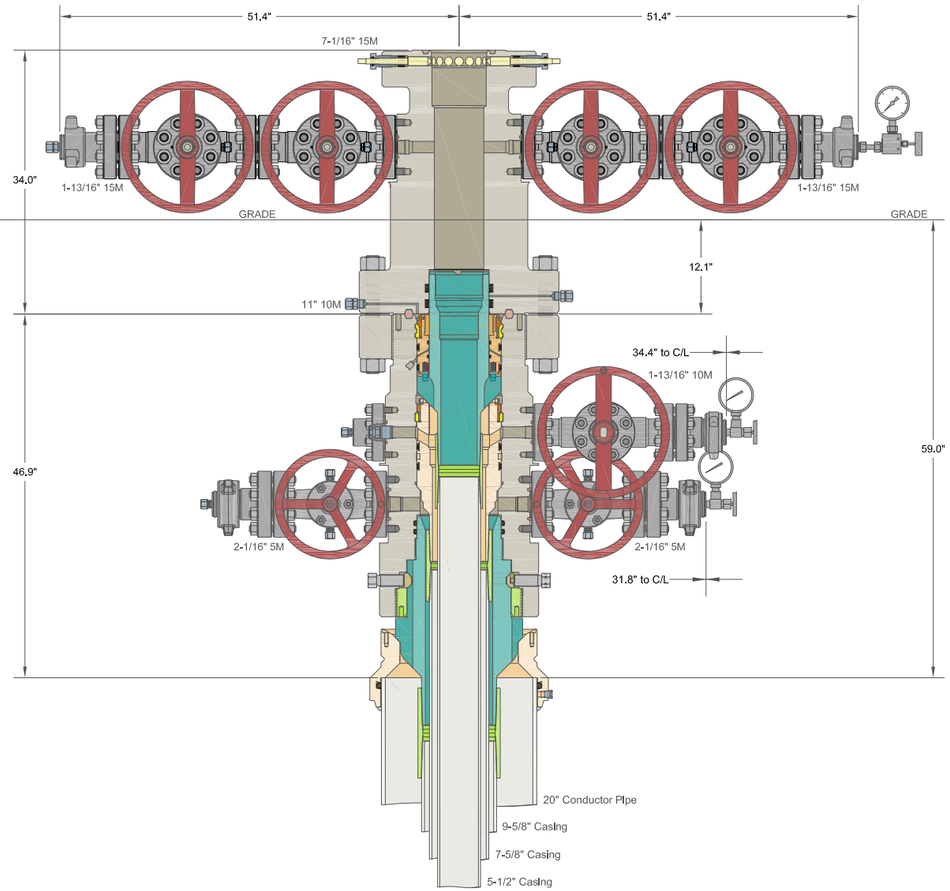
VIII. Best Management Practices during Maintenance

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

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ALL DIMENSIONS APPROXIMA

# CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

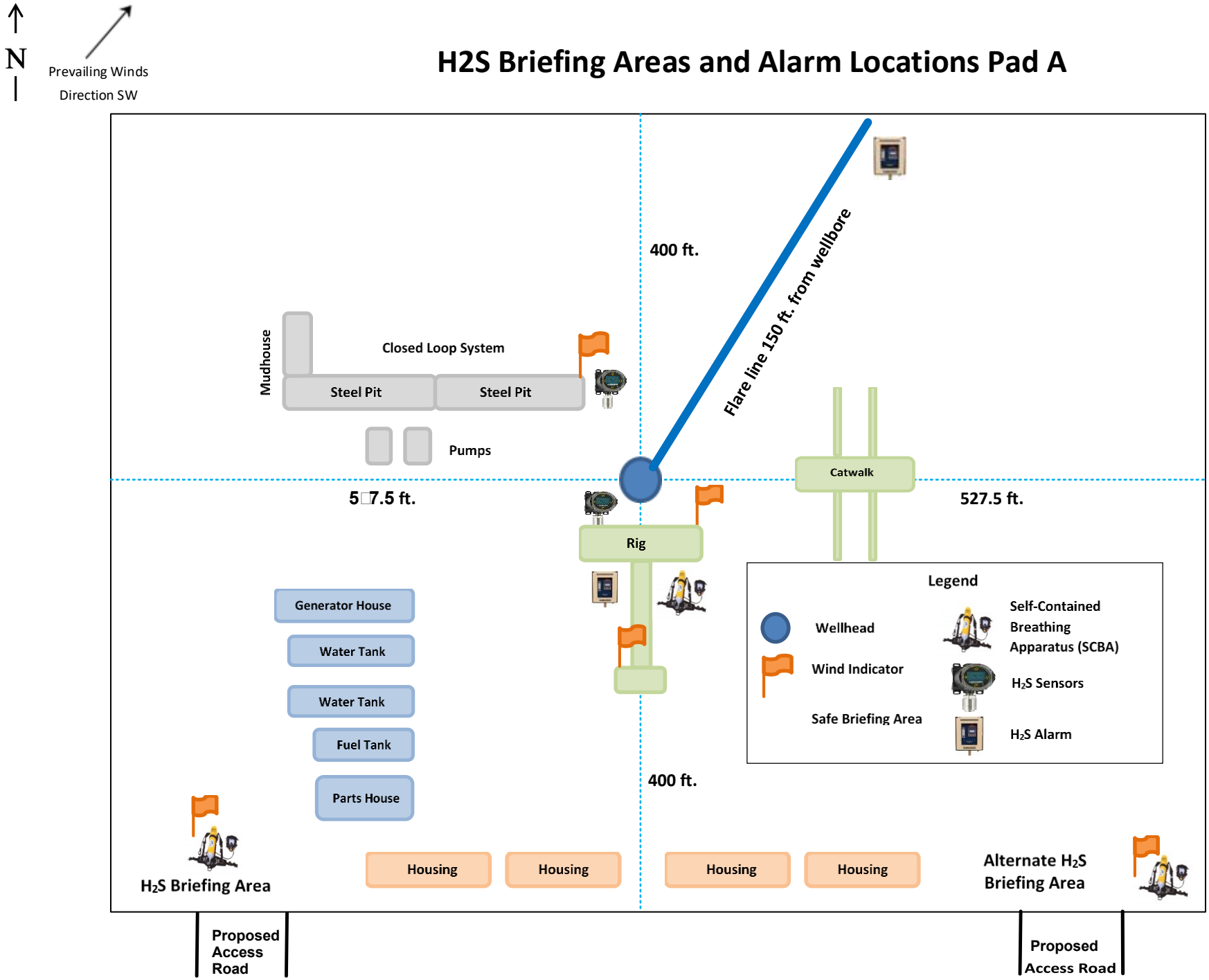
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

| | | |
|---|---|---|
| DRAWN | VJK | 31MAR22 |
| APPRV | | |

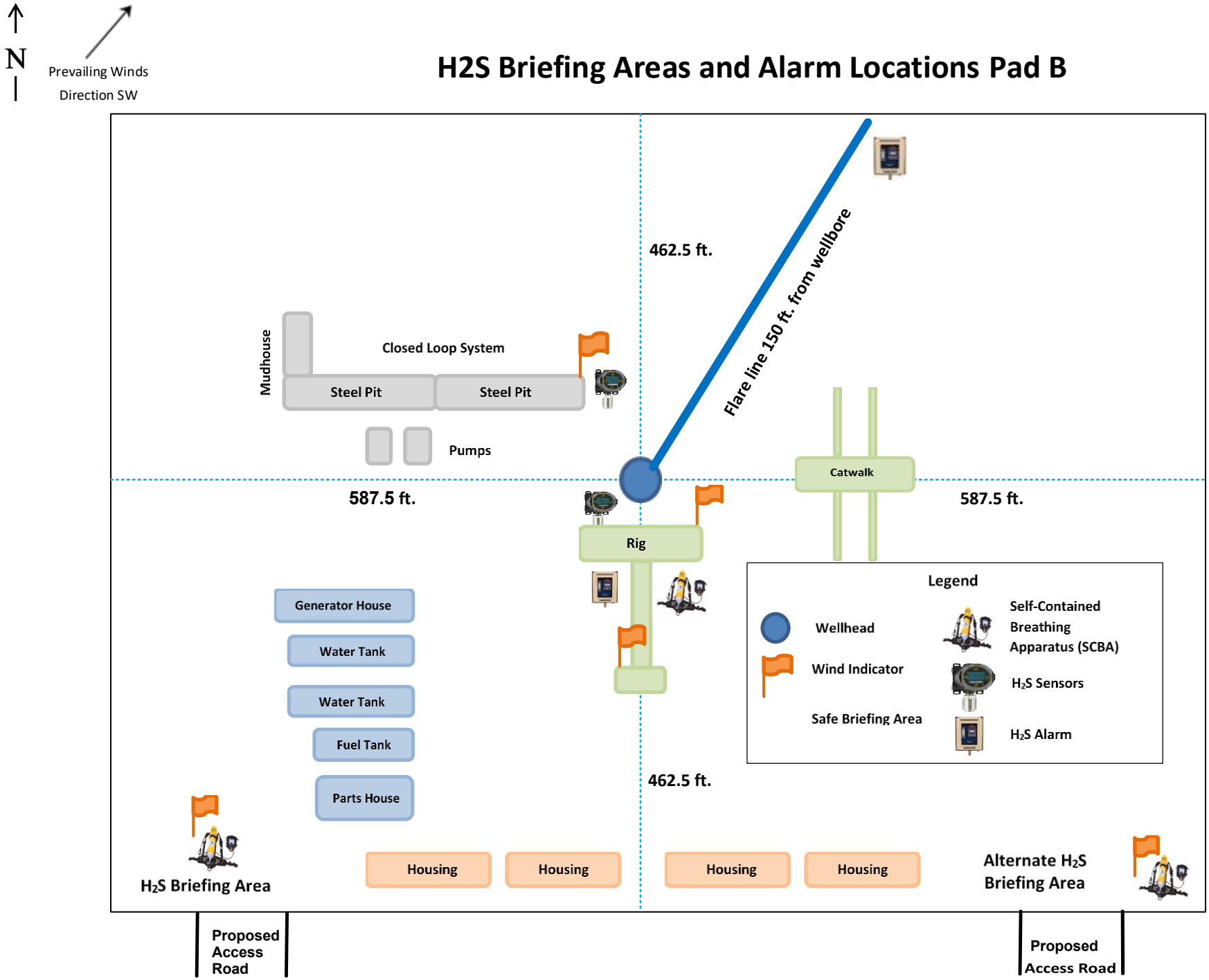
DRAWING NO. HBE0000479

Received by OCD: 1/30/2026 4:36:40 PM
Released to Imaging: 4/27/2026 7:03:45 AM

# H2S Briefing Areas and Alarm Locations Pad A



# H2S Briefing Areas and Alarm Locations Pad B



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

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***Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1014'***

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***Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10288.6'***
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*2nd Stage*
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X□O re□□es□s □o □□m□an O□□ional Lead i□□ell condi□ions dic□a□e in an a□□em□□□o brin□ cemen□inside □he □rs□in□ermedia□e casin□. I□cemen□reaches □he desired hei□h□□□he BLM □ill be no□i□ed and □he second s□a□e bradenhead s□□ee□e and s□bse□□en□□OC veri□ica□ion □ill be ne□a□ed.

X□O re□□es□s □he o□□ion □o cond□c□□he bradenhead s□□ee□e and □OC veri□ica□ion o□line as □er s□andard a□□roval □rom BLM □hen □n□lanned remedia□ion is needed and ba□ch drillin□ is a□□roved. In □he even□□he bradenhead is cond□c□ed□□e □ill ens□re □he □rs□s□a□e cemen□job is cemen□ed □ro□erl□and □he □ell is s□a□ic □i□h □loa□s holdin□ and no □ress□re on □he cs□ann□l□s as □i□h all o□her casin□ s□rin□s □here ba□ch drillin□ o□era□ions occ□r be□ore movin□ o□□□he ri□. □he □A ca□ □ill also be ins□alled □er Cac□□s □roced□re and □ress□re inside □he casin□ □ill be moni□ored via □he valve on □he □A ca□ as □er s□andard ba□ch drillin□ o□s.

***Production Casing: 5.5, 20 New Semi-Flush / Talon, RY P-110 casing to be set at +/- 24808.4'***

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| ail | 1020 sxs VersaCem | mixed a | 1 .2 | 1. | 1 /sx | . | al/sx |
| | Com ressives | 12 hr | | 00 si | | 24 hr | 1 00 si |

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A brea es in variance is re es ed o ONL es bro en ress re seals on he BO e i men hen movin rom ellhead o ellhead hich is in com liance i h A I S andard .

**□.□Proposed□M□d□C□rc□□a□□o□□S□s□e□**

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| 102□□.□□□ 24□0□4□ | □.7□ | OBM | 11.□□12 | □0□□0 | NC □20 | N/A |

□he necessar□ m□d □rod□c□s □or □ei□h□addi□ion and □□id loss con□rol □ill be on loca□ion a□all □imes.

S□□d □i□h □resh □a□er/na□ive m□d. Drill o□□□rom □nder s□□face casin□ □i□h Sa□□ra□ed Sal□. A sa□□ra□ed sal□ brine m□d □ill be □sed □hile drillin□ □hro□□h □he sal□□orma□ion. □se □ibro□s ma□erials as needed □o con□rol see□a□e and los□circ□la□ion. □□m□ visco□s s□ee□s as needed □or hole cleanin□. □□m□ s□eed □ill be recorded on a dail□drillin□ re□or□a□er m□ddin□ □□. A □ason or □o□co □ill be □sed □o de□ec□chan□es in loss or □ain o□m□d vol□me. A m□d □es□□ill be □er□ormed ever□24 ho□rs □o de□ermine□densi□□□viscosi□□□ s□ren□h□□il□ra□ion and □H as necessar□. □se available solids con□rols e□□i□men□□o hel□ □ee□ m□d □ei□h□ do□n a□er m□d □□. Ri□ □□ solids con□rol e□□i□men□□o o□era□e as a closed loo□ s□s□em.

**7.□A□□□□ar□□□ e□□Co□□ro□a□d□Mo□□□or□□□□□□p□ e□□**

A. A □ell□coc□ □ill be in □he drill s□rin□ a□all □imes.
B. A □□ll o□enin□ drill □i□e s□abbin□ valve havin□ a□□ro□ria□e connec□ions □ill be on □he ri□ □oor a□all □imes.
C. H2S moni□ors □ill be on loca□ion □hen drillin□ belo□ □he □.□2□ casin□.

**8.□□o□□□□□□□Cor□□□a□d□□es□□□□Pro□ra□**

O□en hole lo□□in□ □ill no□be done on □his □ell.

**□.□A□□or□ a□Press□res□a□d□□e□ pera□□res□□Po□e□□a□□a□ards**

None An□ici□a□ed. BH□ o□17□ □o 1□□ □ is an□ici□a□ed. No H2S is ex□ec□ed b□□moni□ors □ill be in □lace □o de□ec□an□H2S occ□rrences. Sho□ld □hese circ□ms□ances be enco□n□ered □he o□era□or and drillin□ con□rac□or are □re□ared □o □a□e all necessar□ s□e□s □o ens□re sa□e□□o□all □ersonnel and environmen□ Los□ circ□la□ion co□ld occ□r b□□is no□ex□ec□ed □o be a serio□s □roblem in □his area and hole see□a□e □ill be com□ensa□ed □or b□addi□ions o□small amo□n□s o□LCM in □he drillin□ □□id.

**□□.□A□□c□pa□ed□S□ar□□□□Da□e□a□d□D□ra□□o□□o□Opera□□o□s**

An□ici□a□ed s□□d da□e □ill be a□er BLM a□□ro□al. Move in o□era□ions and drillin□ is ex□ec□ed □o □a□e 40 da□s.

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

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

**Background**

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

**Supporting Documentation**

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

Figure 1: Winch System attached to BOP Stack

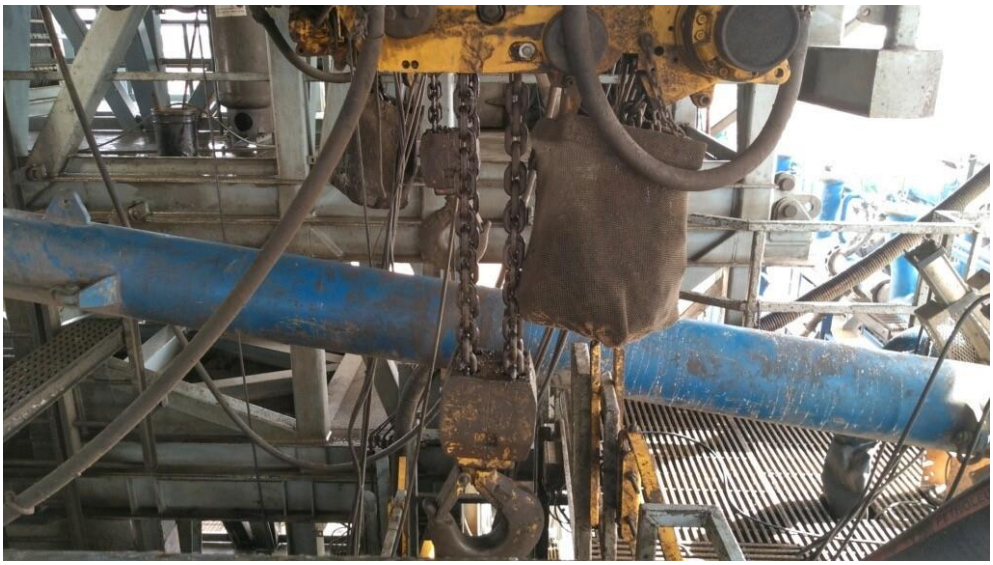


Figure 2: BOP Winch System

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

62 API STANDARD 53

**Table C.4—Initial Pressure Testing, Surface BOP Stacks**

| Component to be Pressure Tested | Pressure Test—Low Pressure[ac] psig (MPa) | Pressure Test—High Pressure[ac] | |
|---|---|---|---|
| | | Change Out of Component, Elastomer, or Ring Gasket | No Change Out of Component, Elastomer, or Ring Gasket |
| Annular preventer[b] | 250 to 350 (1.72 to 2.41) | RWP of annular preventer | MASP or 70% annular RWP, whichever is lower. |
| Fixed pipe, variable bore, blind, and BSR preventers[bd] | 250 to 350 (1.72 to 2.41) | RWP of ram preventer or wellhead system, whichever is lower | ITP |
| Choke and kill line and BOP side outlet valves below ram preventers (both sides) | 250 to 350 (1.72 to 2.41) | RWP of side outlet valve or wellhead system, whichever is lower | ITP |
| Choke manifold—upstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of ram preventers or wellhead system, whichever is lower | ITP |
| Choke manifold—downstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of valve(s), line(s), or MASP for the well program, whichever is lower | |
| Kelly, kelly valves, drill pipe safety valves, IBOPs | 250 to 350 (1.72 to 2.41) | MASP for the well program | |

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

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

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

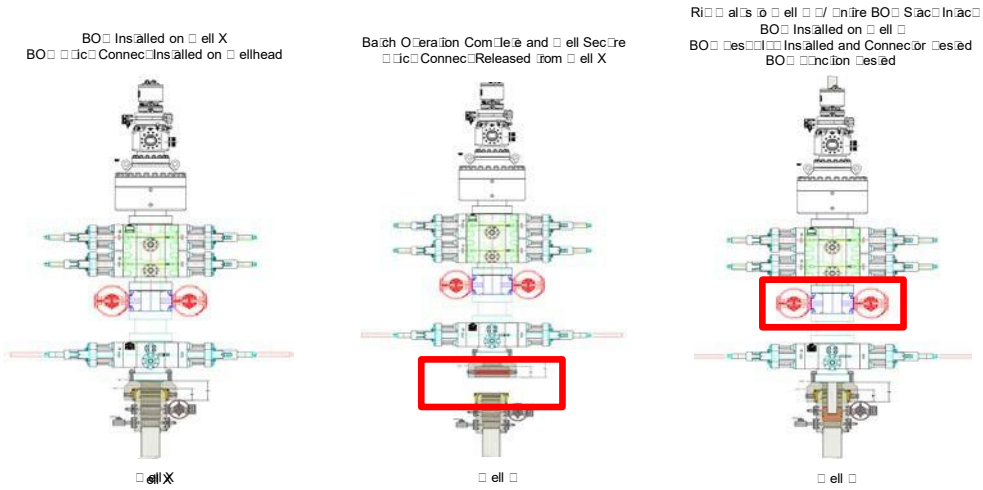
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

**Procedures**

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

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

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




**Summary**

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

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

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

1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

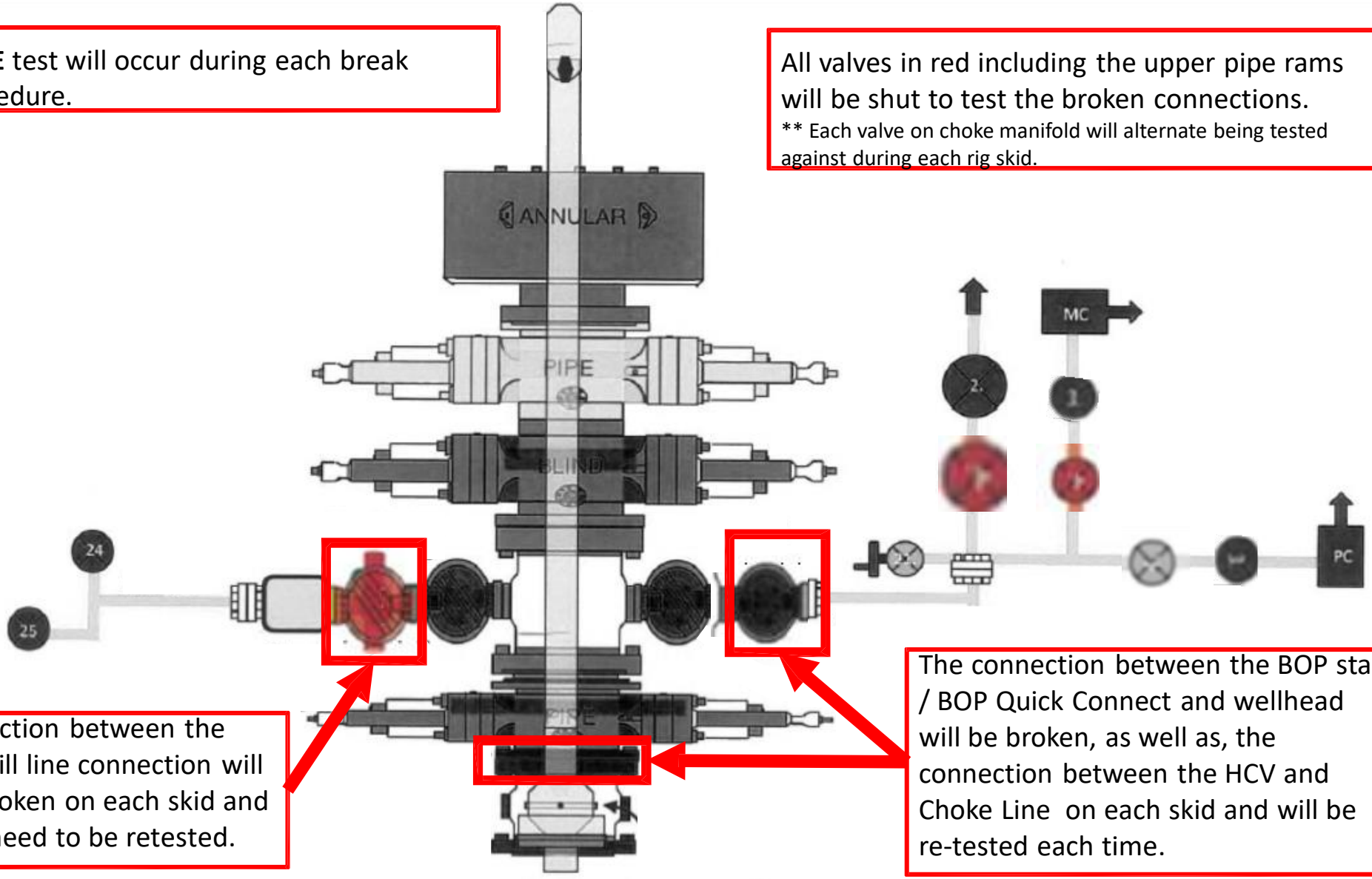
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.




The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

# BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
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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. OSPINOS

TITLE: QUALITY ASSURANCE

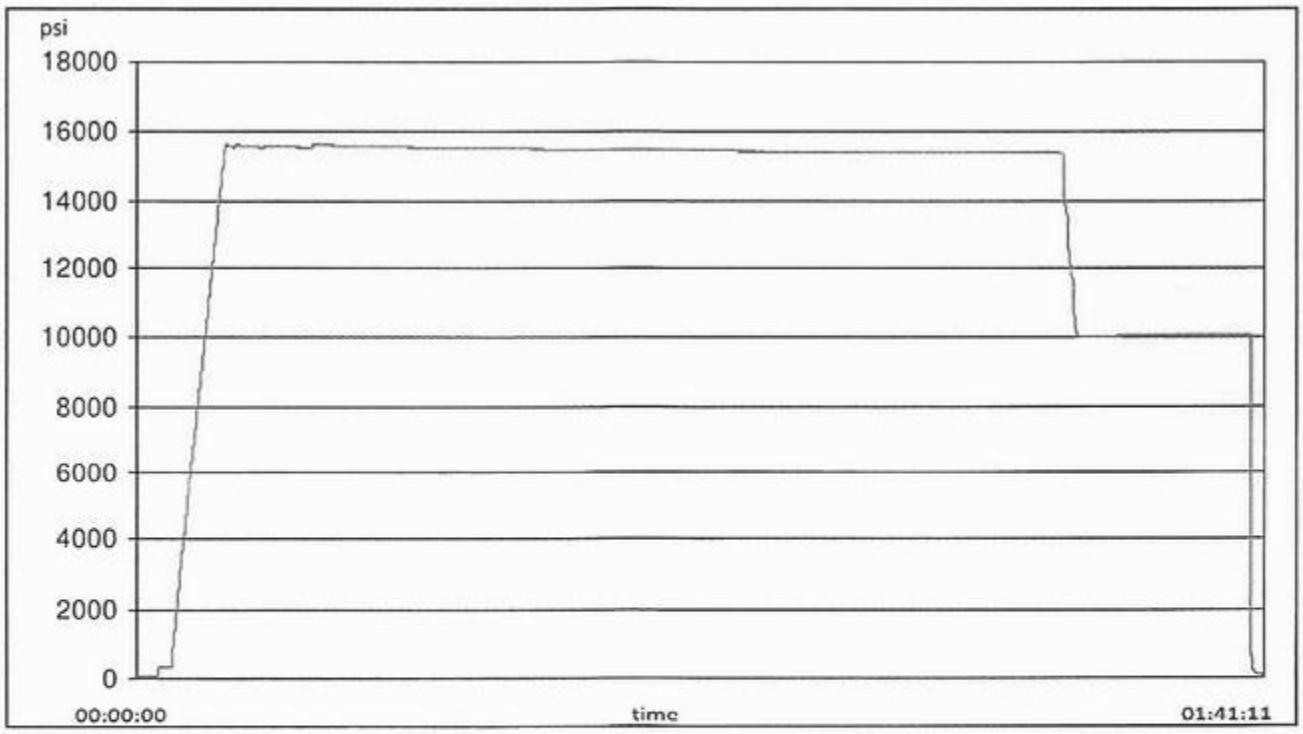
DATE: 1/25/2024

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 | | | | |



H3-15/16

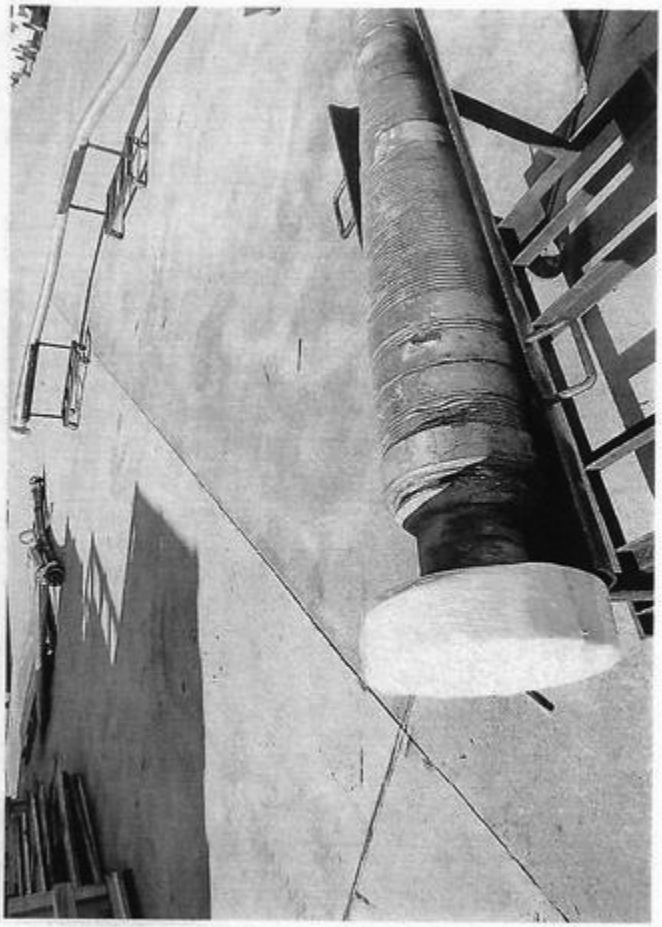
1/25/2024 11:48:06 AM

# 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



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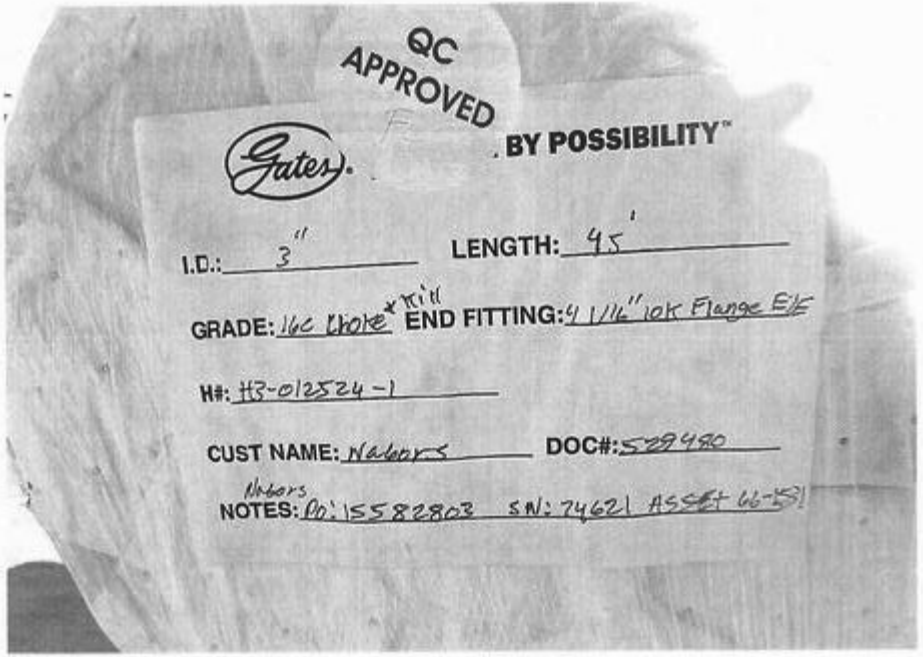
Received by OCD: 1/30/2026 4:36:40 PM



**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.

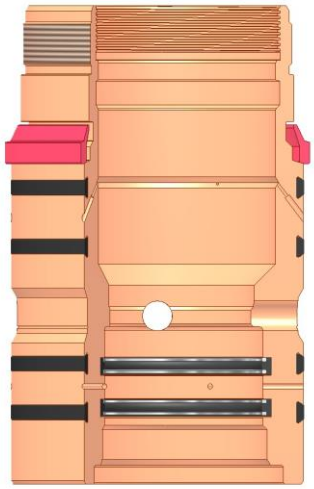
## 1. Cement Program

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

## 2. Offline Cementing Procedure

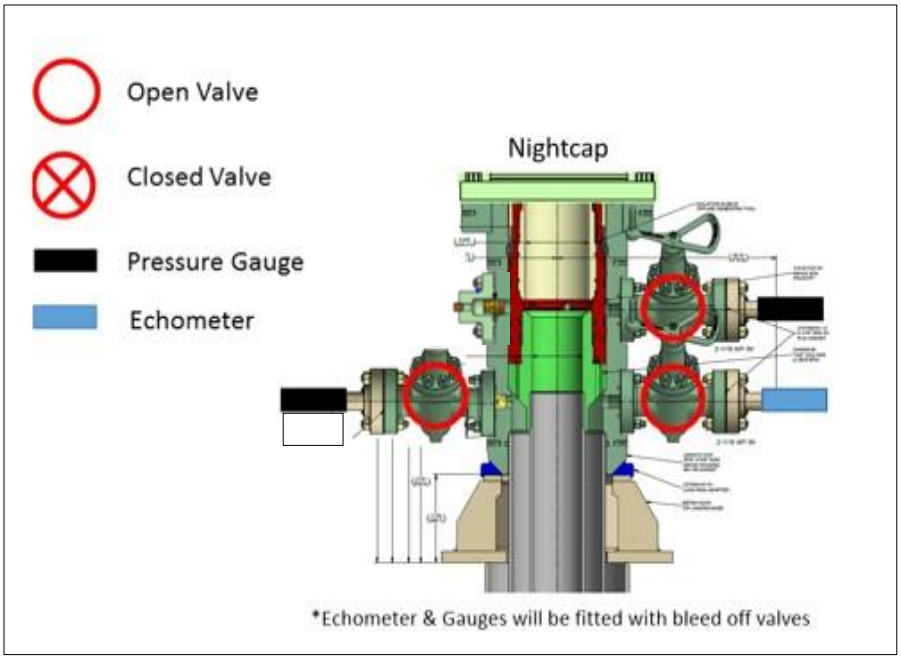
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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

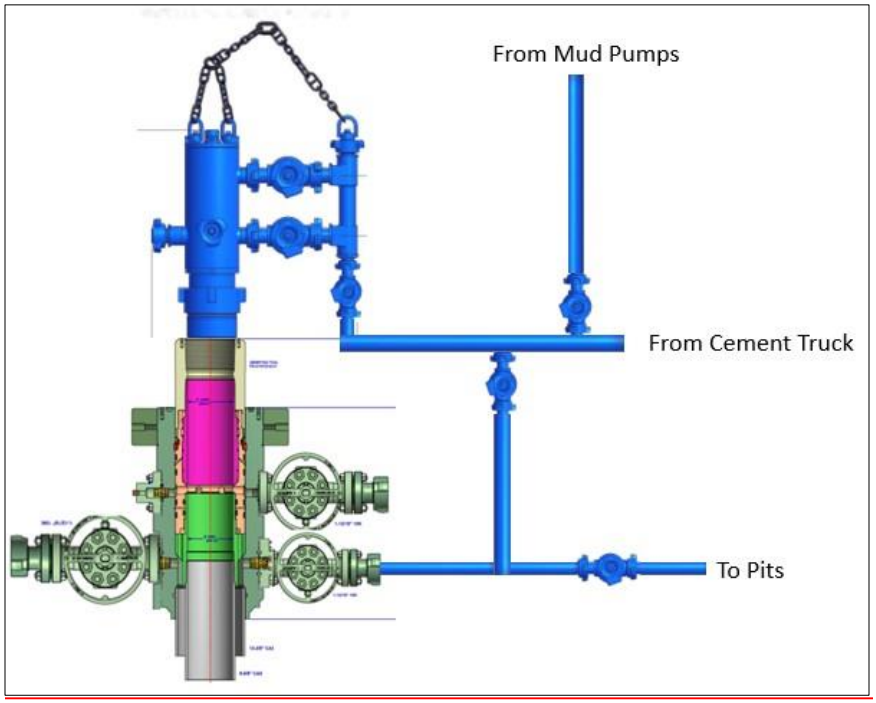
**XTO Permian Operating, LLC Offline Cementing Variance Request**




Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or 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.

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

# SUPO Data Report
01/30/2026

**APD ID:** 10400102818
**Submission Date:** 12/30/2024
**Operator Name:** XTO PERMIAN OPERATING LLC
**Well Name:** POKER LAKE UNIT 15-34 BD
**Well Number:** 305H
**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:**

PLU_15_34_BD_305H_ROAD_MAP_20241222120636.pdf

**Existing Road Purpose:** ACCESS

**Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

PLU_14_15_16_BD_ACCESS_ROAD_FINAL_20241216045702.pdf

**New road type:** LOCAL

**Length:** 23572.55 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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**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:** 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:** All proposed access routes to the well sites as per the 43 CFR requirements have been described in the new road plat issued by the registered surveyor. The same has been attached with the individual APDs under SUPO Section 2. Proposed routes to the individual wells on the well site locations have been shown & identified on the well specific vicinity, topography & access road maps attached in SUPO section 1 of the individual APDs.

**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:**

POKER_LAKE_UNIT_15_34_15_27_BD_1Mile_Radius_Map_20241217042751.pdf

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

## 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. An attached certified plat provided additional details for the proposed facilities. B. Flowlines: Up to 20 composite flex pipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be within proposed corridors where the oil, gas, and water will be metered and appropriately separated. A plat of the proposed flowline route showing length, beginning, and ending points for the lease is attached. C. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. D. Flare. Located on the proposed facility pad and will be sized for 60 to 120 mmscf/d with min 150 of distance between all facility equipment, road and well pad locations for safety purposes. 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 within BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment. F. Containment Berms. Containment berms constructed completely around production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil/ Caliche. G. Electrical. All electrical lines will be primary 115kV to properly run expected production equipment. Approximately 23,329.85 feet of electrical will be ran within the proposed corridor location. A plat of the proposed electrical showing length, beginning, and ending points is attached

**Production Facilities map:**

PLU_14_15_16_BD_MIDSTREAM_TIE_IN_FINAL_20250320103338.pdf

PLU_14_15_16_BD_BURIED_AND_SURFACE_FLOWLINE_FINAL_20250320103338.pdf

PLU_14_15_16_BD_OVERHEAD_ELECTRIC_LINE_FINAL_20250320103357.pdf

PLU_15_BD_Pad_CVB_BLM_Cut_Fill_Engineering_Exhibit_Updated_20250403104542.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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 550000 **Source volume (acre-feet):** 70.89120298

**Source volume (gal):** 23100000

---

**Water source type:** OTHER

**Describe type:** RAW PRODUCED WATER

**Water source use type:** INTERMEDIATE/PRODUCTION CASING

**Source latitude:** **Source longitude:**

**Source datum:**

**City:**

**Water source permit type:** PRIVATE CONTRACT

**Water source transport method:** PIPELINE

**Source land ownership:** COMMERCIAL

**Source transportation land ownership:** FEDERAL

**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:** COMMERCIAL

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 550000 **Source volume (acre-feet):** 70.89120298

---

**Water source and transportation**

PLU_15_34_BD_305H_VICINITY_MAP_20241222120725.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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

either brackish or raw produced water coming from a third party that is all piped from either a pipeline or a pond (32.148919 -103.847674) 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 flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 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:** Caliche pit location : 32.09194, -103.8385

**Construction Materials source location**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

## Section 7 - Methods for Handling

**Waste type:** DRILLING

**Waste content description:** FLUID

**Amount of waste:** 500 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Steel Mud Boxes

**Safe containmant attachment:**

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

**Disposal type description:**

**Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240.

**Waste type:** 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:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240.

**Waste type:** SEWAGE

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

**Amount of waste:** 250 gallons

**Waste disposal frequency :** Weekly

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

**Safe containmant attachment:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**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 or will be

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

recycled. Oil produced during operations will be stored in tanks until sold.

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

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

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

**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:**

PLU_15_34_BD_305H_RL_20241222123338.pdf

PLU_15_34_BD_305H_WELL_SITE_02_20_2025_20250320103633.pdf

**Comments:** Multi-Well Pad.

## Section 10 - Plans for Surface

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** POKER LAKE UNIT 15-34 BD

**Multiple Well Pad Number:** A

**Recontouring**

PLU_15_BD_PAD_A_PAD_LAYOUT_WITH_INTERIM_REC_FINAL_20250320103856.pdf

PLU_15_BD_PAD_B_PAD_LAYOUT_WITH_INTERIM_REC_FINAL_20250320103857.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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

| | | |
|---|---|---|
| **Well pad proposed disturbance (acres):** 44.326 | **Well pad interim reclamation (acres):** 12.294 | **Well pad long term disturbance (acres):** 32.032 |
| **Road proposed disturbance (acres):** 16.07 | **Road interim reclamation (acres):** 0 | **Road long term disturbance (acres):** 16.07 |
| **Powerline proposed disturbance (acres):** 26.44 | **Powerline interim reclamation (acres):** 26.44 | **Powerline long term disturbance (acres):** 0 |
| **Pipeline proposed disturbance (acres):** 48.13 | **Pipeline interim reclamation (acres):** 48.13 | **Pipeline long term disturbance (acres):** 0 |
| **Other proposed disturbance (acres):** 80.797 | **Other interim reclamation (acres):** 70.949 | **Other long term disturbance (acres):** 9.848 |
| **Total proposed disturbance:** 215.763 | **Total interim reclamation:** 157.813 | **Total long term disturbance:** 57.949999999999996 |

**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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**Existing Vegetation Community at other disturbances**

**Non native seed used?** N

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** N

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** N

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed

## Seed Table

## Seed Summary

**Total pounds/Acre:**

| Seed Type | Pounds/Acre |
|---|---|

**Seed reclamation**

## Operator Contact/Responsible Official

**First Name:** Robert **Last Name:** Bartels

**Phone:** (406)478-3617 **Email:** Robert.e.bartels@exxonmobil.com

**Seedbed prep:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be 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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

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

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

**Success standards:** 100% compliance with applicable regulations.

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

## Section 11 - Surface

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

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

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NMSLO

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

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

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NMSLO

**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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**Disturbance type:** TRANSMISSION LINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NMSLO

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

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

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NMSLO

**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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**Disturbance type:** OTHER

**Describe:** FLOWLINE

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NMSLO

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

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

**Disturbance type:** OTHER

**Describe:** CENTRAL VESSEL BATTERY

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

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

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

## Section 12 - Other

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

**ROW Type(s):**

## ROW

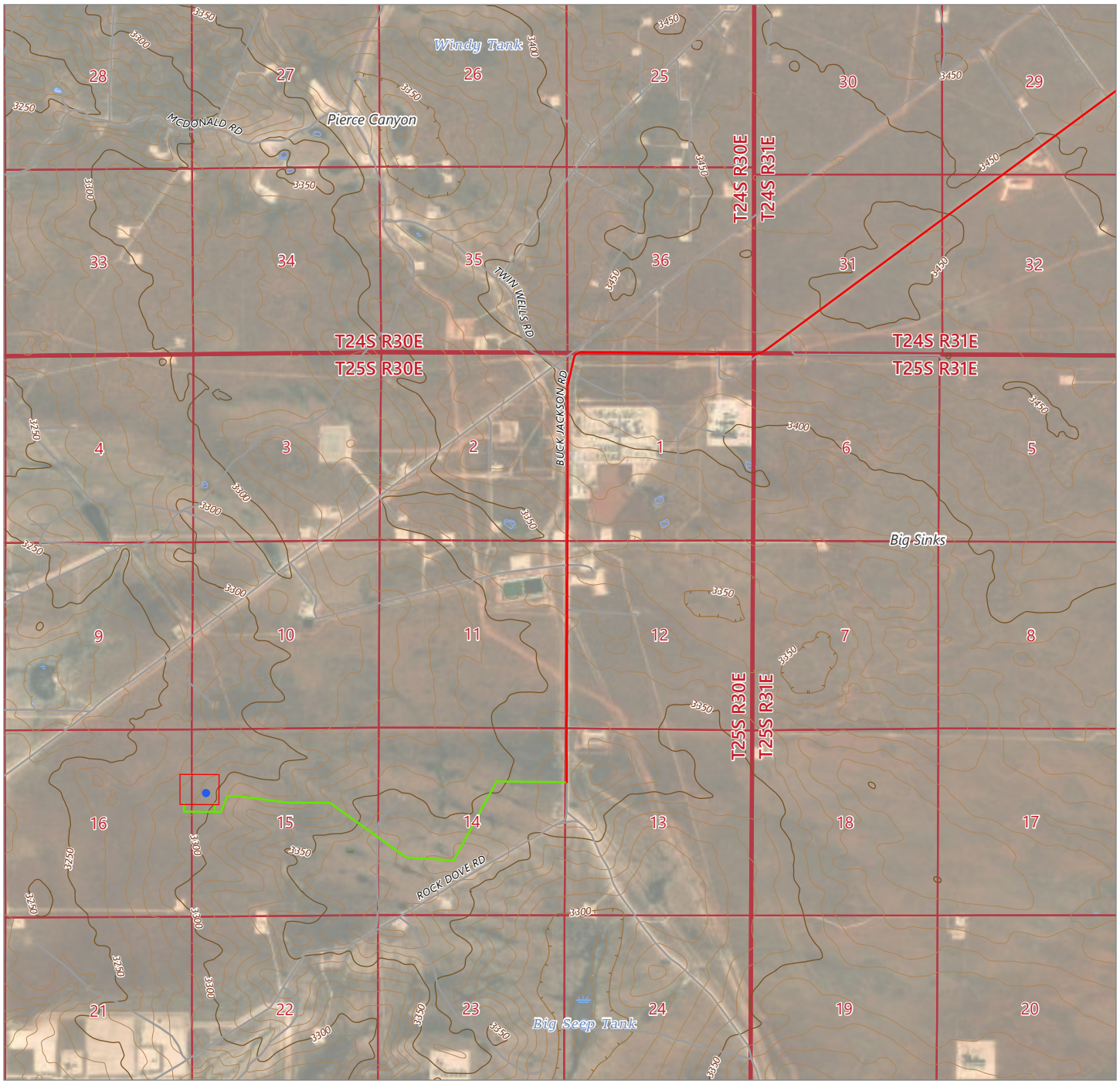
**SUPO Additional Information:** SUPO written for all wells in section/project area.

**Use a previously conducted onsite?** Y

**Previous Onsite information:** The XTO Permian Operating LLC. representatives and BLM NRS were on location for onsite on 07/22/2024.

## Other SUPO

POKER_LAKE_UNIT_15_34_15_27_BD_SUPO_20250320104139.pdf




**DRIVING DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF HIGHWAY 128 (JAL HIGHWAY) AND BUCK JACKSON ROAD, GO SOUTHWEST ON BUCK JACKSON ROAD FOR APPROX. 11.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

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

**LEGEND**

- POKER LAKE UNIT 15-34 BD 305H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 13553'

N

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Ph: 972.972.4250 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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**A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO PERMIAN OPERATING, LLC.**
**POKER LAKE UNIT 15-34 BD 305H**

LOCATED 1815 FEET FROM THE NORTH LINE AND 420 FEET FROM THE WEST LINE OF SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NUMBER: |
|---|---|---|---|
| AI | 9/17/2024 | 1":5,000' | 618.013003.34-21 |
| DRAWN BY: | FIELD CREW: | REVISION NUMBER: | SHEET: |
| RE | RD | 0 | 3 OF 3 |

P:\618\013.XTO Energy - NM\003 Poker Lake Unit_34 - PLU 15 Bushy Draw\GIS\DRIVING DIRECTIONS\NM_WELLPLAT_PACKAGE\NM_WELLPLAT_PACKAGE.aprx

Page 149 of 260

## LEGEND

- SECTION LINE
- PROPOSED PAD
- PROPOSED ACCESS ROAD
- EXISTING ROAD
- EXISTING PAD
- OHE — EXISTING OVERHEAD ELECTRIC
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- PL — EXISTING PIPELINE
- ◎ 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.

N

GRAPHIC SCALE
0 300 600
(IN FEET)
1 inch = 600 ft.

SECTION 11
OWNER: B.L.M.

SECTION 12

SECTION 13
OWNER: B.L.M.

SECTION 14
OWNER: B.L.M.

15

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

SW/4 SE/4 | SE/4 SE/4 | NW/4 NE/4 | NE/4 NE/4 | SE/4 NW/4 | SW/4 NW/4 | SE/4 NE/4 | SW/4 NE/4 | NE/4 SW/4 | NW/4 SW/4 | NW/4 NW/4 | SW/4 NW/4 | NW/4 SE/4

1" FIP W/BRASS CAP

P.O.T. "C"
NAD83 (NME)
Y= 412,932.93
X= 692,123.51
LAT= 32.134294° N
LONG= 103.846199° W

P.O.B. "B"
NAD83 (NME)
Y= 412,671.85
X= 692,544.51
LAT= 32.133571° N
LONG= 103.844843° W

P.O.B. "A"
AT EXISTING ROAD
NAD83 (NME)
Y= 412,668.32
X= 693,126.08
LAT= 32.133554° N
LONG= 103.842964° W

PROPOSED PLU 14 BD
PAD "C"

P.O.T. "E"
NAD83 (NME)
Y= 412,932.01
X= 691,130.93
LAT= 32.134304° N
LONG= 103.849406° W

P.O.B. "C"
NAD83 (NME)
Y= 412,674.39
X= 692,123.75
LAT= 32.133583° N
LONG= 103.846202° W

P.O.B. "E"
NAD83 (NME)
Y= 412,680.40
X= 691,131.16
LAT= 32.133612° N
LONG= 103.849409° W

P.O.B. "D"
NAD83 (NME)
Y= 412,674.99
X= 692,024.52
LAT= 32.133586° N
LONG= 103.846523° W

PROPOSED
CVB

P.O.T. "D"
NAD83 (NME)
Y= 412,524.99
X= 692024.42
LAT= 32.133174° N
LONG= 103.846525° W

P.O.T. "B"
NAD83 (NME)
Y= 412,521.84
X= 692,544.41
LAT= 32.133159° N
LONG= 103.844846° W

P.O.T. "A"
NAD83 (NME)
Y= 411,083.07
X= 687,744.98
LAT= 32.129263° N
LONG= 103.860371° W

N00°02'21"W
452.87' (TIE)

S02°18'31"W
1,125.97' (TIE)

L1 L2 L3 L4 L5 L6 L7 L8 L9

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF AN ACCESS ROAD EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTIONS 13 AND 14, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE 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

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)

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| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\ACCESS ROAD.dwg

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Page 150 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | N89°39'11"W | 44.60' |
| L2 | N89°39'11"W | 1950.36' |
| L3 | S28°16'37"W | 2563.08' |
| L4 | N86°28'37"W | 1354.65' |
| L5 | N54°52'49"W | 1002.35' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L6 | S00°02'18"W | 150.00' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | N00°03'10"W | 258.53' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L8 | S00°02'18"W | 150.00' |

| LINE TABLE "E" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N00°03'10"W | 251.60' |

TOTAL LENGTH =
7,725.17 FEET OR 468.19 RODS

POKER LAKE UNIT 14 BD PROPOSED ACCESS ROAD DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 7,725.17 FEET, 468.19 RODS, OR 1.46 MILES IN LENGTH CROSSING SECTIONS 13 AND 14, 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 5.28 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

SW/4 NW/4 OF SECTION 13 = 44.60 FEET = 2.70 RODS = 0.03 OF AN ACRE
SE/4 NE/4 OF SECTION 14 = 1,833.70 FEET = 111.13 RODS = 1.23 ACRES
NE/4 NE/4 OF SECTION 14 = 59.05 FEET = 3.58 RODS = 0.04 OF AN ACRE
SW/4 NE/4 OF SECTION 14 = 2,103.72 FEET = 127.50 RODS = 1.44 ACRES
NW/4 NE/4 OF SECTION 14 = 59.24 FEET = 3.59 RODS = 0.04 OF AN ACRE
NW/4 SE/4 OF SECTION 14 = 220.19 FEET = 13.35 RODS = 0.15 OF AN ACRE
NE/4 SW/4 OF SECTION 14 = 1,886.82 FEET = 114.35 RODS = 1.30 ACRES
NW/4 SW/4 OF SECTION 14 = 1,517.85 FEET = 91.99 RODS = 1.05 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).
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 PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTIONS 13 AND 14, 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)

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|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\ACCESS ROAD.dwg

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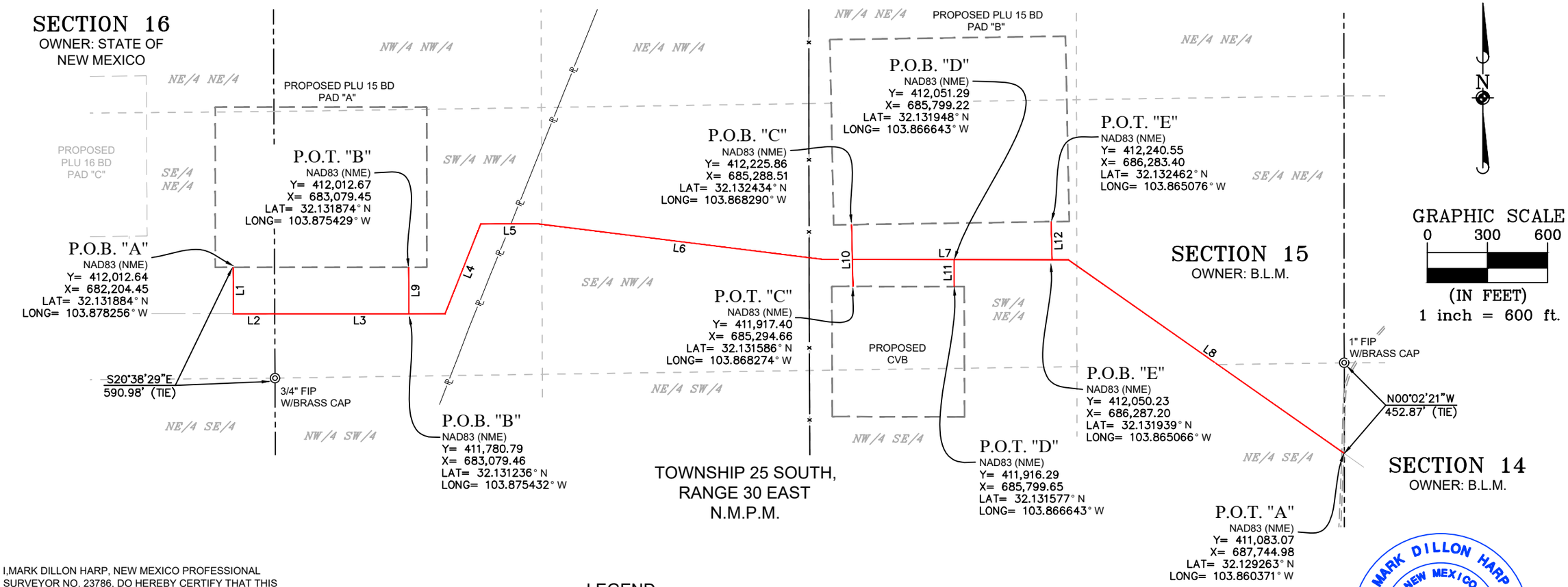
Page 151 of 260




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

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED ACCESS ROAD |
| | EXISTING ROAD |
| | EXISTING PAD |
| | EXISTING PIPELINE |
| | EXISTING FENCE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

# AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN ACCESS ROAD EASEMENT FOR:
*XTO PERMIAN OPERATING, LLC.*
POKER LAKE UNIT 15 BD
SITUATED IN
SECTIONS 15 AND 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

**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.

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)

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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\DWG\Exhibits\ACCESS ROAD.dwg

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Page 152 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S00°00'08"E | 231.88' |
| L2 | N89°59'52"E | 206.96' |
| L3 | N89°59'52"E | 848.52' |
| L4 | N21°44'11"E | 483.22' |
| L5 | S89°58'13"E | 290.57' |
| L6 | S82°51'10"E | 1420.80' |
| L7 | S89°52'30"E | 1230.89' |
| L8 | S54°52'49"E | 1680.86' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N00°00'08"W | 231.88' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L10 | S01°08'37"E | 308.53' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L11 | S00°11'01"E | 135.00' |

| LINE TABLE "E" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L12 | N01°08'37"W | 190.36' |

TOTAL LENGTH =
7,259.47 FEET OR 439.97 RODS

POKER LAKE UNIT 15 BD PROPOSED ACCESS ROAD DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 438.84 FEET, 26.60 RODS, OR 0.08 MILES IN LENGTH CROSSING SECTION 16, 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 0.32 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**STATE LAND LINE SEGMENTS: L1 & L2**

SE/4 NE/4 OF SECTION 16 = 438.84 FEET = 26.60 RODS = 0.32 OF AN ACRE

POKER LAKE UNIT 15 BD PROPOSED ACCESS ROAD DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 6,820.63 FEET, 413.37 RODS, OR 1.29 MILES IN LENGTH CROSSING SECTION 15, 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 4.65 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**BLM LAND LINE SEGMENTS: L3 THROUGH L12**

SW/4 NW/4 OF SECTION 15 = 1,868.09 FEET = 113.22 RODS = 1.28 ACRES
SE/4 NW/4 OF SECTION 15 = 1,344.58 FEET = 81.49 RODS = 0.93 OF AN ACRE
SW/4 NE/4 OF SECTION 15 = 1,976.94 FEET = 119.81 RODS = 1.32 ACRES
SE/4 NE/4 OF SECTION 15 = 859.51 FEET = 52.09 RODS = 0.59 OF AN ACRE
NE/4 SE/4 OF SECTION 15 = 771.51 FEET = 46.76 RODS = 0.53 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 PERMIAN OPERATING, LLC.*

## POKER LAKE UNIT 15 BD

SITUATED IN
SECTIONS 15 AND 16, 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)

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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\DWG\Exhibits\ACCESS ROAD.dwg

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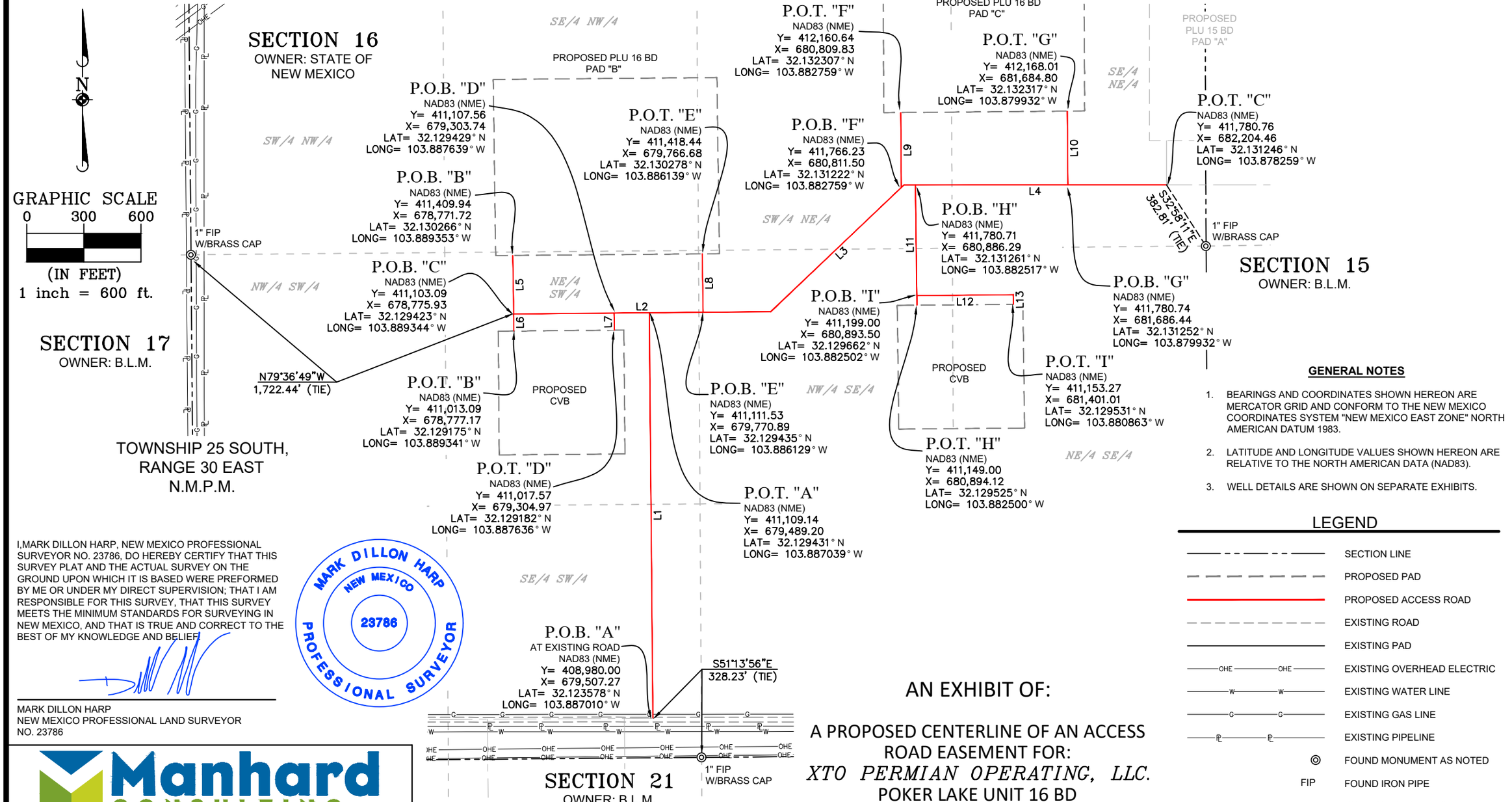


## GENERAL NOTES

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.

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED ACCESS ROAD |
| | EXISTING ROAD |
| | EXISTING PAD |
| OHE OHE | EXISTING OVERHEAD ELECTRIC |
| W W | EXISTING WATER LINE |
| G G | EXISTING GAS LINE |
| PL PL | EXISTING PIPELINE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

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 PERMIAN OPERATING, LLC.*

POKER LAKE UNIT 16 BD

SITUATED IN
SECTION 16, 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)

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|---|---|---|---|---|---|---|---|
| DB | 9/3/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.33 – PLU 16 Brushy Draw\DWG\Exhibits\ACCESS ROAD.dwg

Received by OCD: 1/30/2026 4:36:40 PM
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Page 154 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | N00°29'10"W | 2129.22' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L2 | N89°30'50"E | 1349.47' |
| L3 | N46°28'31"E | 967.33' |
| L4 | N89°59'52"E | 1377.72' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L5 | N00°47'13"W | 306.88' |
| L6 | S00°47'13"E | 90.00' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | S00°47'13"E | 90.00' |

| LINE TABLE "E" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L8 | N00°47'13"W | 306.94' |

| LINE TABLE "F" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N00°14'35"W | 394.41' |

| LINE TABLE "G" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L10 | N00°14'35"W | 387.28' |

| LINE TABLE "H" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L11 | S00°42'36"E | 631.75' |

| LINE TABLE "I" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L12 | N89°31'02"E | 506.91' |
| L13 | S00°42'36"E | 50.00' |

TOTAL LENGTH =
8,587.91 FEET OR 520.48 RODS

POKER LAKE UNIT 16 BD PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 8,587.91 FEET, 520.48 RODS, OR 1.63 MILES IN LENGTH CROSSING SECTION 16, 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 5.82 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

SE/4 SW/4 OF SECTION 16 = 1,123.40 FEET = 68.08 RODS = 0.77 OF AN ACRE
NE/4 SW/4 OF SECTION 16 = 2,465.58 FEET = 149.43 RODS = 1.67 ACRES
NW/4 SE/4 OF SECTION 16 = 1,645.34 FEET = 99.72 RODS = 1.11 ACRES
SW/4 NE/4 OF SECTION 16 = 1,470.57 FEET = 89.13 RODS = 0.99 OF AN ACRE
SE/4 NE/4 OF SECTION 16 = 1,513.69 FEET = 91.74 RODS = 1.03 ACRES
NE/4 SE/4 OF SECTION 16 = 369.33 FEET = 22.38 RODS = 0.25 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 PERMIAN OPERATING, LLC.*

## POKER LAKE UNIT 16 BD

SITUATED IN
SECTION 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

Manhard CONSULTING
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|---|---|---|---|---|---|---|---|
| DB | 9/3/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 2 OF 2 |

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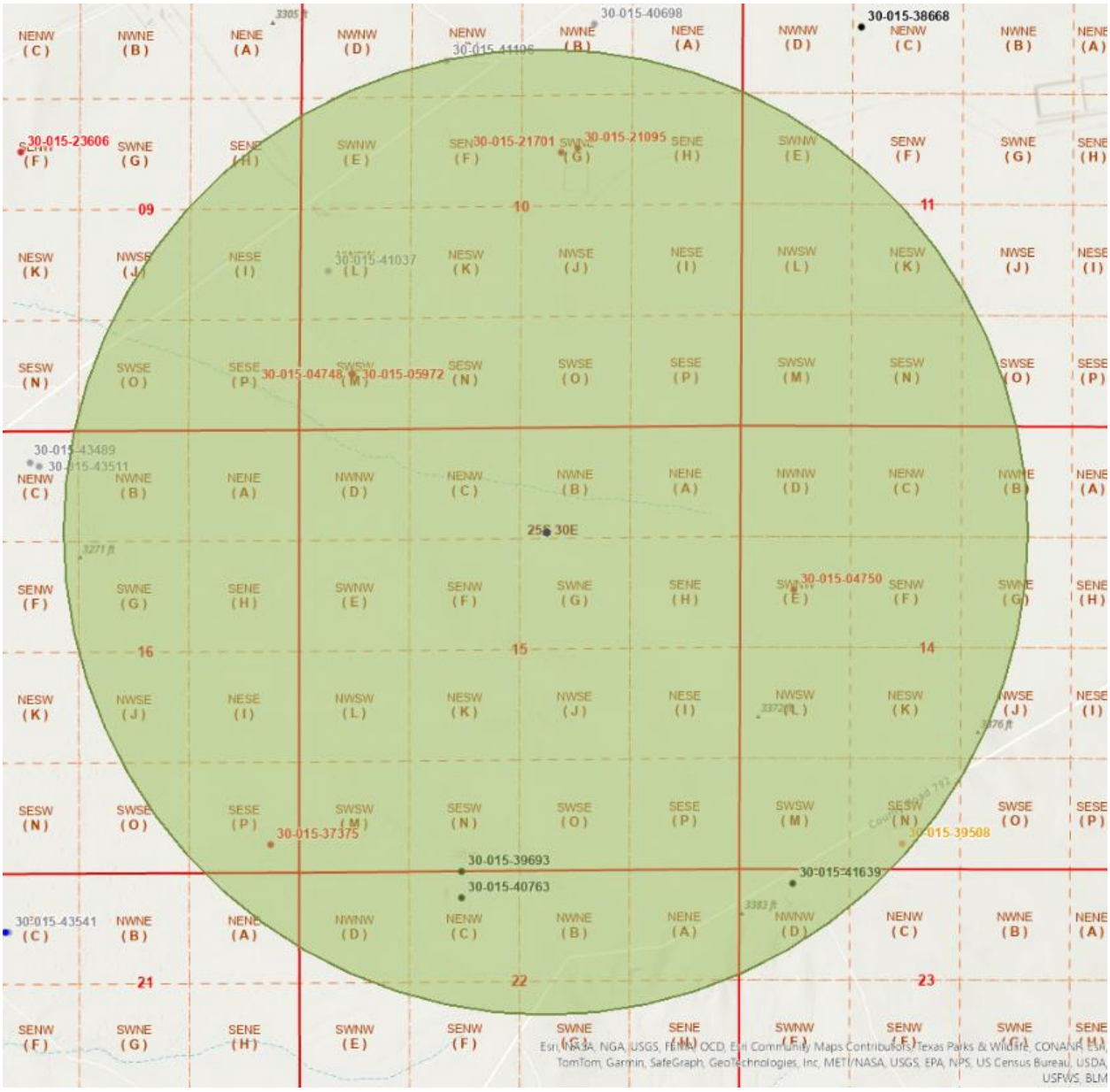
**POKER LAKE UNIT 15-34 BD/ 15-27 BD**

1-Mile Radius Map



Page 156 of 260

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED MIDSTREAM TIE-IN |
| | EXISTING ROAD |
| | EXISTING PAD |
| OHE OHE | EXISTING OVERHEAD ELECTRIC |
| W W | EXISTING WATER LINE |
| G G | EXISTING GAS LINE |
| PL PL | EXISTING PIPELINE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

GRAPHIC SCALE
0 300 600
(IN FEET)
1 inch = 600 ft.

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

### 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

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)

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SECTION 11
OWNER: B.L.M.

SECTION 14
OWNER: B.L.M.

SECTION 13
OWNER: B.L.M.

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

P.O.T. "A"
NAD83 (NME)
Y= 414,474.96
X= 692,640.14
LAT= 32.138527° N
LONG= 103.844508° W

S58°45'33"E
517.40' (TIE)

1" FIP
W/BRASS CAP

P.O.T. "B"
NAD83 (NME)
Y= 412,600.87
X= 691,879.47
LAT= 32.133384° N
LONG= 103.846993° W

P.O.B. "B"
NAD83 (NME)
Y= 411,875.57
X= 691,878.98
LAT= 32.131391° N
LONG= 103.847005° W

P.O.B. "A"
NAD83 (NME)
Y= 410,991.33
X= 687,745.04
LAT= 32.129011° N
LONG= 103.860372° W

N00°02'21"W
544.61' (TIE)

PROPOSED PLU 14 BD
PAD "C"

PROPOSED
CVB

L1 L2 L3 L4 L5 L6 L7 L8 L9

SE/4 NE/4 | SW/4 NW/4 | SE/4 NW/4 | NW/4 NE/4 | NE/4 NE/4 | SW/4 NE/4 | SE/4 NE/4 | NE/4 SW/4 | NW/4 SW/4 | NE/4 SE/4 | NW/4 SE/4 | SW/4 SE/4 | SW/4 NW/4

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A MIDSTREAM TIE-IN EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTIONS 11 AND 14, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\MIDSTREAM TIE-IN.dwg

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Page 157 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S54°52'49"E | 970.74' |
| L2 | S86°28'37"E | 1423.88' |
| L3 | N28°16'37"E | 2565.96' |
| L4 | S89°39'11"E | 1584.91' |
| L5 | N00°24'21"W | 786.90' |
| L6 | S89°38'58"W | 113.45' |
| L7 | N00°04'54"W | 824.48' |
| L8 | N00°04'54"W | 268.75' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N00°02'18"E | 725.30' |

TOTAL LENGTH =
9,264.37 FEET OR 561.48 RODS

POKER LAKE UNIT 14 BD PROPOSED MIDSTREAM TIE-IN DESCRIPTION:

SURVEY OF A STRIP OF LAND 120.0 FEET WIDE AND 8,539.07 FEET, 517.52 RODS, OR 1.62 MILES IN LENGTH CROSSING SECTIONS 11 AND 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 60.0 FEET RIGHT AND 60.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 23.53 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**LINE SEGMENTS: L1 THROUGH L8**

NW/4 SW/4 OF SECTION 14 = 1,512.11 FEET = 91.64 RODS = 4.17 ACRES
NE/4 SW/4 OF SECTION 14 = 1,838.79 FEET = 111.44 RODS = 5.07 ACRES
NW/4 SE/4 OF SECTION 14 = 400.06 FEET = 24.25 RODS = 1.10 ACRES
SW/4 NE/4 OF SECTION 14 = 1,781.06 FEET = 107.94 RODS = 4.91 ACRES
SE/4 NE/4 OF SECTION 14 = 1,292.52 FEET = 78.34 RODS = 3.56 ACRES
NE/4 NE/4 OF SECTION 14 = 1,445.78 FEET = 87.62 RODS = 3.98 ACRES
SE/4 SE/4 OF SECTION 11 = 268.75 FEET = 16.29 RODS = 0.74 OF AN ACRE

POKER LAKE UNIT 14 BD PROPOSED MIDSTREAM TIE-IN DESCRIPTION:

SURVEY OF A STRIP OF LAND 110.0 FEET WIDE AND 725.30 FEET, 43.96 RODS, OR 0.14 MILES IN LENGTH CROSSING SECTION 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 55.0 FEET RIGHT AND 55.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 1.68 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**LINE SEGMENTS: L9**

SE/4 NE/4 OF SECTION 14 = 725.30 FEET = 43.96 RODS = 1.68 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).
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 A MIDSTREAM TIE-IN EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTIONS 11 AND 14, 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
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Reg. No. F-10194754 (Surv), F-22053 (Eng)

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|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\MIDSTREAM TIE-IN.dwg

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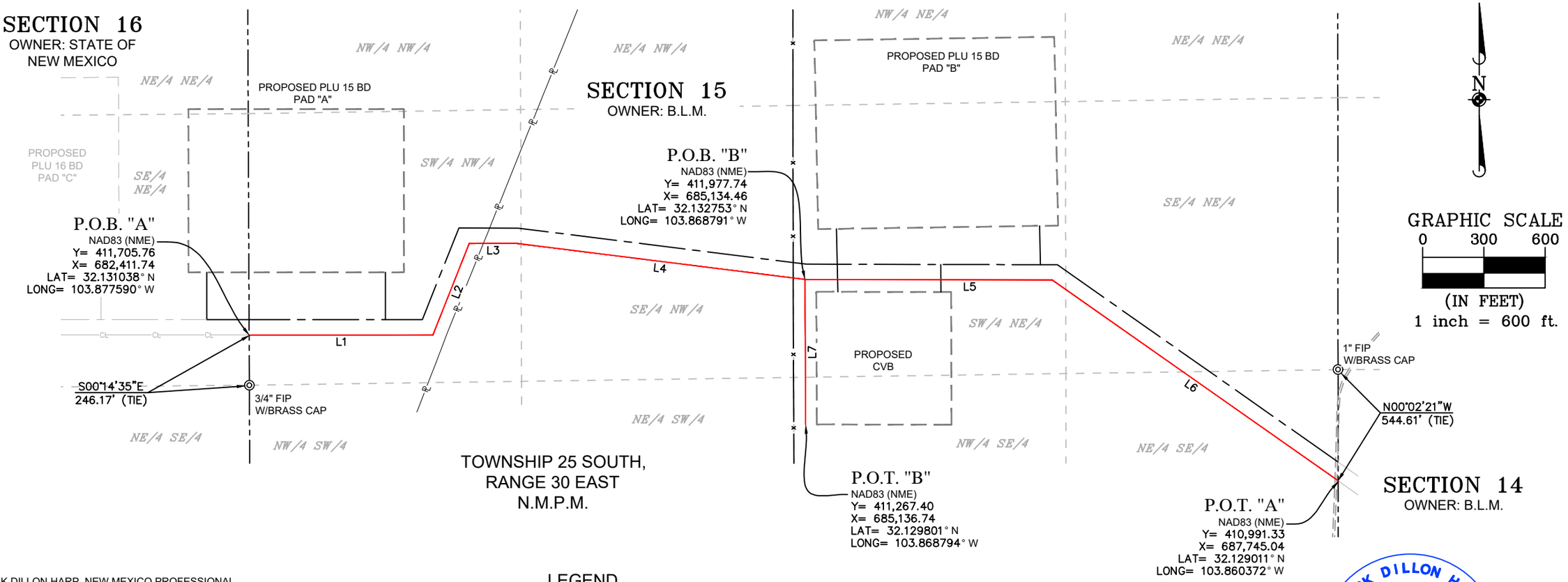
Page 158 of 260




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

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED ACCESS ROAD |
| | PROPOSED MIDSTREAM TIE-IN |
| | EXISTING ROAD |
| | EXISTING PAD |
| | EXISTING PIPELINE |
| | EXISTING FENCE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

# AN EXHIBIT OF:

A PROPOSED CENTERLINE OF A
MIDSTREAM TIE-IN EASEMENT FOR:
*XTO PERMIAN OPERATING, LLC.*
POKER LAKE UNIT 15 BD
SITUATED IN
SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

**GENERAL NOTES**

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\DWG\Exhibits\MIDSTREAM TIE-IN.dwg

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Page 159 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | N89°59'52"E | 899.04' |
| L2 | N21°44'11"E | 483.19' |
| L3 | S89°58'13"E | 235.04' |
| L4 | S82°51'10"E | 1420.74' |
| L5 | S89°52'30"E | 1211.85' |
| L6 | S54°52'49"E | 1710.05' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | N00°11'01"W | 710.35' |

TOTAL LENGTH =
6,670.26 FEET OR 404.26 RODS

## GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
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NO. 23786

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POKER LAKE UNIT 15 BD PROPOSED MIDSTREAM TIE-IN DESCRIPTION:

SURVEY OF A STRIP OF LAND 120.0 FEET WIDE AND 5,959.91 FEET, 361.21 RODS, OR 1.13 MILES IN LENGTH CROSSING SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 60.0 FEET RIGHT AND 60.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 16.42 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**LINE SEGMENTS: L1 THROUGH L6**

SW/4 NW/4 OF SECTION 15 = 1,636.17 FEET = 99.16 RODS = 4.51 ACRES
SE/4 NW/4 OF SECTION 15 = 1,344.52 FEET = 81.49 RODS = 3.70 ACRES
SW/4 NE/4 OF SECTION 15 = 1,348.32 FEET = 81.72 RODS = 3.71 ACRES
SE/4 NE/4 OF SECTION 15 = 703.11 FEET = 42.61 RODS = 1.94 ACRES
NE/4 SE/4 OF SECTION 15 = 927.79 FEET = 56.23 RODS = 2.56 ACRES

POKER LAKE UNIT 15 BD PROPOSED MIDSTREAM TIE-IN DESCRIPTION:

SURVEY OF A STRIP OF LAND 110.0 FEET WIDE AND 710.35 FEET, 43.05 RODS, OR 0.13 MILES IN LENGTH CROSSING SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 55.0 FEET RIGHT AND 55.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 1.64 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**LINE SEGMENT: L7**

SW/4 NE/4 OF SECTION 15 = 479.16 FEET = 29.04 RODS = 1.06 ACRES
NW/4 SE/4 OF SECTION 15 = 231.19 FEET = 14.01 RODS = 0.58 OF AN ACRE

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A MIDSTREAM TIE-IN EASEMENT FOR: *XTO PERMIAN OPERATING, LLC.* POKER LAKE UNIT 15 BD

SITUATED IN
SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 2 OF 2 |

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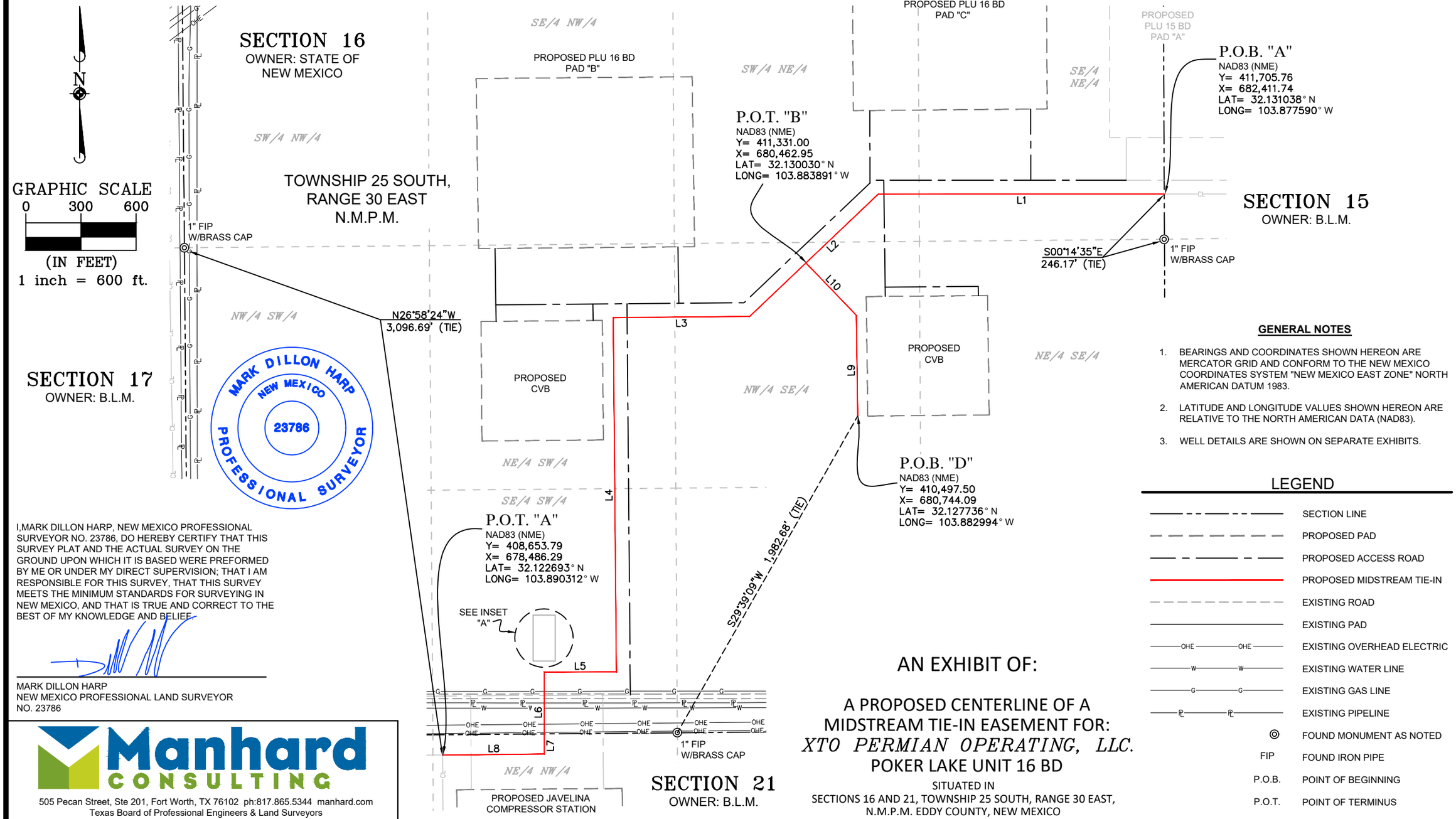
Page 160 of 260




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

**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.

LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED ACCESS ROAD |
| | PROPOSED MIDSTREAM TIE-IN |
| | EXISTING ROAD |
| | EXISTING PAD |
| OHE OHE | EXISTING OVERHEAD ELECTRIC |
| W W | EXISTING WATER LINE |
| G G | EXISTING GAS LINE |
| PL PL | EXISTING PIPELINE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A MIDSTREAM TIE-IN EASEMENT FOR: *XTO PERMIAN OPERATING, LLC.*

POKER LAKE UNIT 16 BD

SITUATED IN
SECTIONS 16 AND 21, 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
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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 1 OF 2 |

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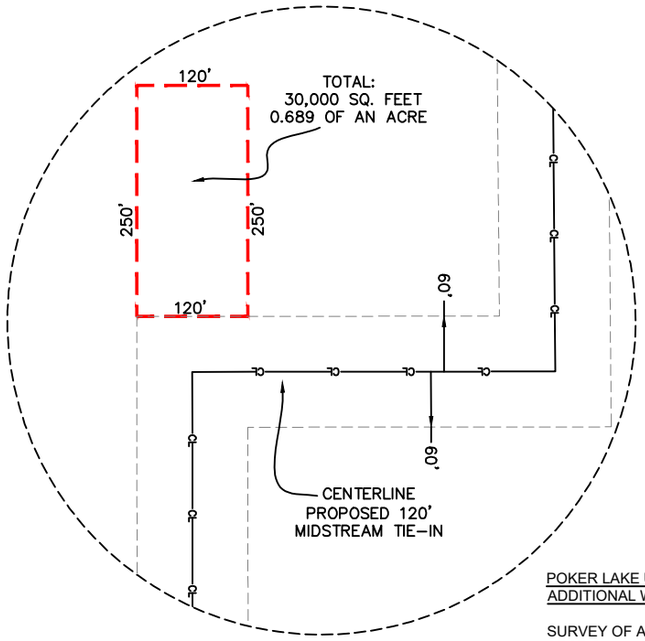
Page 161 of 260

INSET "A"
NOT TO SCALE




MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

POKER LAKE UNIT 16 BD PROPOSED MIDSTREAM TIE-IN FLOWLINE ADDITIONAL WORKSPACE DESCRIPTION:

SURVEY OF A 120.0 FEET BY 250.0 FEET WIDE AREA CROSSING SECTION 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO, COMPRISING OF 0.689 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**STATE LAND**

SE/4 SW/4 OF SECTION 16 = (EASEMENT ONLY) 0.689 OF AN ACRE

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

## LEGEND

- EDGE OF EASEMENT
- ADDITIONAL WORKSPACE
- CENTERLINE OF PROPOSED MIDSTREAM TIE-IN

## 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.

POKER LAKE UNIT 16 BD PROPOSED 110' MIDSTREAM TIE-IN FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 110.0 FEET WIDE AND 943.79 FEET, 57.20 RODS, OR 0.18 MILES IN LENGTH CROSSING SECTION 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 55.0 FEET RIGHT AND 55.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 2.23 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**STATE LAND**

**LINE SEGMENTS: L9 & L10**

NW/4 SE/4 OF SECTION 16 = 943.79 FEET = 57.20 RODS = 2.23 ACRES

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S89°59'52"W | 1555.05' |
| L2 | S46°28'31"W | 966.96' |
| L3 | S89°30'50"W | 740.74' |
| L4 | S00°29'10"E | 1928.00' |
| L5 | S89°56'36"W | 392.69' |
| L6 | S00°03'24"E | 336.77' |
| L7 | S00°03'24"E | 110.00' |
| L8 | S89°31'16"W | 552.68' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N00°42'36"W | 547.26' |
| L10 | N43°47'00"W | 396.52' |

TOTAL LENGTH =
7,526.68 FEET OR 456.16 RODS

POKER LAKE UNIT 16 BD PROPOSED 120' MIDSTREAM TIE-IN FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 120.0 FEET WIDE AND 5,920.20 FEET, 358.80 RODS, OR 1.12 MILES IN LENGTH CROSSING SECTION 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 60.0 FEET RIGHT AND 60.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 16.32 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**STATE LAND**

**LINE SEGMENTS: L1 THROUGH L6**

SE/4 SW/4 OF SECTION 16 = 1,726.63 FEET = 104.64 RODS = 4.76 ACRES
NE/4 SW/4 OF SECTION 16 = 1,265.22 FEET = 60.18 RODS = 3.49 ACRES
NW/4 SE/4 OF SECTION 16 = 992.99 FEET = 44.38 RODS = 2.74 ACRES
SW/4 NE/4 OF SECTION 16 = 602.06 FEET = 36.49 RODS = 1.66 ACRES
SE/4 NE/4 OF SECTION 16 = 1,333.30 FEET = 80.81 RODS = 3.67 ACRES

POKER LAKE UNIT 16 BD PROPOSED 120' MIDSTREAM TIE-IN FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 120.0 FEET WIDE AND 662.69 FEET, 40.16 RODS, OR 0.13 MILES IN LENGTH CROSSING SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 60.0 FEET RIGHT AND 60.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 1.83 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**BLM LAND**

**LINE SEGMENTS: L7 & L8**

NE/4 NW/4 OF SECTION 21 = 662.69 FEET = 40.16 RODS = 1.83 ACRES

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A MIDSTREAM TIE-IN EASEMENT FOR: *XTO PERMIAN OPERATING, LLC.*

## POKER LAKE UNIT 16 BD

SITUATED IN
SECTIONS 16 AND 21, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

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| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.33 – PLU 16 Brushy Draw\DWG\Exhibits\MIDSTREAM TIE-IN.dwg

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Page 162 of 260

## LEGEND

- SECTION LINE
- PROPOSED PAD
- PROPOSED BURIED AND SURFACE FLOWLINE
- EXISTING ROAD
- EXISTING PAD
- OHE — OHE — EXISTING OVERHEAD ELECTRIC
- W — W — EXISTING WATER LINE
- G — G — EXISTING GAS LINE
- PL — PL — EXISTING PIPELINE
- ◎ FOUND MONUMENT AS NOTED
- FIP FOUND IRON PIPE
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINUS

GRAPHIC SCALE
0 300 600
(IN FEET)
1 inch = 600 ft.

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

### 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

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)

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SECTION 11
OWNER: B.L.M.

SECTION 14
OWNER: B.L.M.

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

SECTION 13
OWNER: B.L.M.

12

15

1" FIP W/BRASS CAP

N00°02'21"W
373.37' (TIE)

S53°04'27"E
546.35' (TIE)

P.O.B. "A"
NAD83 (NME)
Y= 411,162.57
X= 687,744.93
LAT= 32.129481° N
LONG= 103.860370° W

P.O.B. "B"
NAD83 (NME)
Y= 412,932.47
X= 691,628.43
LAT= 32.134299° N
LONG= 103.847799° W

P.O.T. "B"
NAD83 (NME)
Y= 412,742.39
X= 691,628.60
LAT= 32.133777° N
LONG= 103.847801° W

P.O.T. "A"
NAD83 (NME)
Y= 411,871.51
X= 692,643.97
LAT= 32.131370° N
LONG= 103.844534° W

PROPOSED PLU 14 BD
PAD "C"

PROPOSED
CVB

L1 L2 L3 L4 L5 L6

SE/4 NE/4 | SW/4 NW/4 | SE/4 NW/4 | SW/4 NE/4 | SE/4 NE/4 | NE/4 SW/4 | NW/4 SW/4 | NE/4 SE/4 | NW/4 SE/4 | SW/4 SE/4 | SE/4 SE/4 | NW/4 NE/4 | NE/4 NE/4 | SW/4 NW/4

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A 100' BURIED AND SURFACE FLOWLINE EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTION 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\FLOWLINES.dwg

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Page 163 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S54°52'49"E | 1029.74' |
| L2 | S86°28'37"E | 1294.65' |
| L3 | N28°16'37"E | 2560.58' |
| L4 | S89°39'11"E | 1552.14' |
| L5 | S00°02'18"W | 864.73' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L6 | S00°03'10"E | 190.07' |

TOTAL LENGTH =
7,491.91 FEET OR 454.06 RODS

## 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

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

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POKER LAKE UNIT 14 BD PROPOSED 100' BURIED AND SURFACE FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 100.0 FEET WIDE AND 7,491.91 FEET, 454.06 RODS, OR 1.42 MILES IN LENGTH CROSSING SECTION 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 50.0 FEET RIGHT AND 50.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 17.07 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

NW/4 SW/4 OF SECTION 14 = 1,522.82 FEET = 92.29 RODS = 3.49 ACRES
NE/4 SW/4 OF SECTION 14 = 1,928.43 FEET = 116.88 RODS = 4.41 ACRES
NW/4 SE/4 OF SECTION 14 = 64.31 FEET = 3.90 RODS = 0.16 OF AN ACRE
SE/4 NW/4 OF SECTION 14 = (EASEMENT ONLY) = 0.01 OF AN ACRE
SW/4 NE/4 OF SECTION 14 = 2,155.22 FEET = 130.62 RODS = 4.82 ACRES
NW/4 NE/4 OF SECTION 14 = 59.14 FEET = 3.58 RODS = 0.14 OF AN ACRE
SE/4 NE/4 OF SECTION 14 = 1,761.99 FEET = 106.79 RODS = 4.04 ACRES

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A 100' BURIED AND SURFACE FLOWLINE EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTION 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\FLOWLINES.dwg

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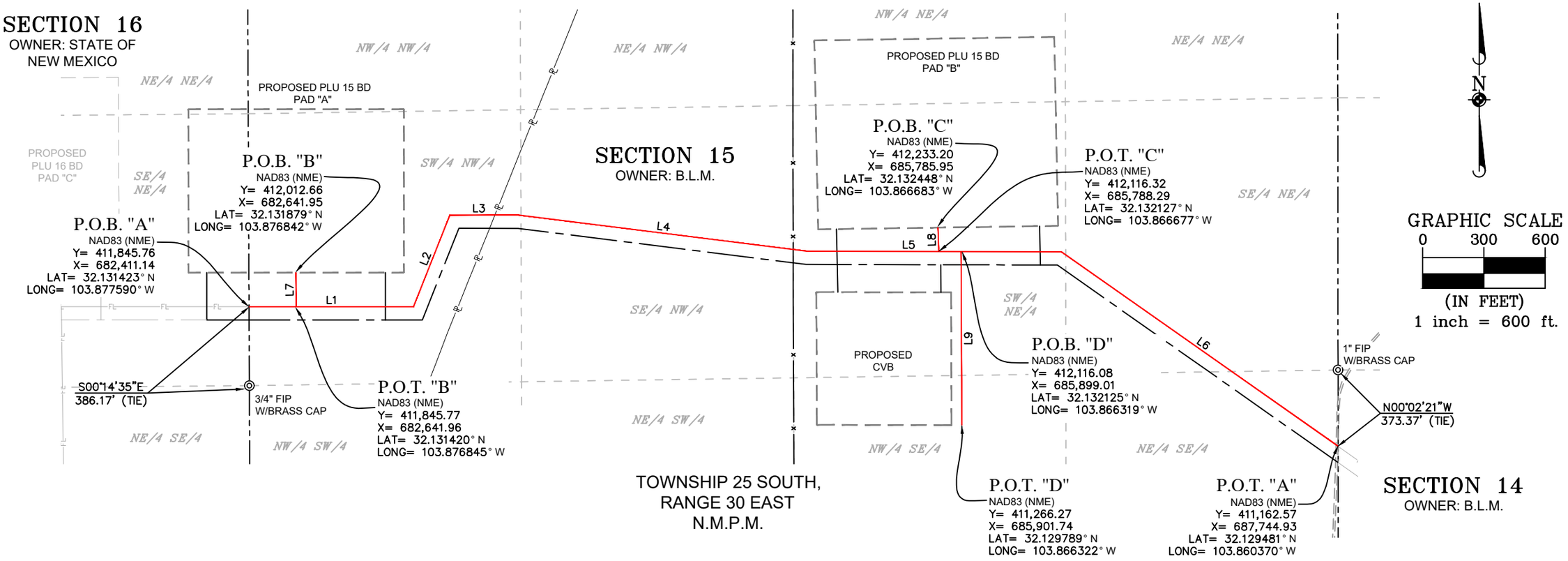
Page 164 of 260




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

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED ACCESS ROAD |
| | PROPOSED BURIED AND SURFACE FLOWLINE |
| | EXISTING ROAD |
| | EXISTING PAD |
| | EXISTING PIPELINE |
| | EXISTING FENCE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A 100' BURIED AND SURFACE FLOWLINE EASEMENT FOR: *XTO PERMIAN OPERATING, LLC.*

POKER LAKE UNIT 15 BD

SITUATED IN
SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

**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.

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

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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\DWG\Exhibits\FLOWLINES.dwg

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Page 165 of 260

Received by OCD: 1/30/2026 4:36:40 PM

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | N89°59'52"E | 804.74' |
| L2 | N21°44'11"E | 483.25' |
| L3 | S89°58'13"E | 338.70' |
| L4 | S82°51'10"E | 1420.86' |
| L5 | S89°52'30"E | 1247.39' |
| L6 | S54°52'49"E | 1655.57' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | S00°00'08"E | 166.88' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L8 | S01°08'37"E | 116.91' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | S00°11'01"E | 849.81' |

TOTAL LENGTH =
7,084.11 FEET OR 429.34 RODS

## 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
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PROFESSIONAL SURVEYOR

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Texas Board of Professional Engineers & Land Surveyors
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POKER LAKE UNIT 15 BD PROPOSED 100' BURIED AND SURFACE FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 100.0 FEET WIDE AND 7,084.11 FEET, 429.34 RODS, OR 1.34 MILES IN LENGTH CROSSING SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 50.0 FEET RIGHT AND 50.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 15.92 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

SW/4 NW/4 OF SECTION 15 = 1,803.12 FEET = 109.28 RODS = 4.03 ACRES
SE/4 NW/4 OF SECTION 15 = 1,344.64 FEET = 81.49 RODS = 3.09 ACRES
SW/4 NE/4 OF SECTION 15 = 2,061.95 FEET = 124.97 RODS = 4.50 ACRES
SE/4 NE/4 OF SECTION 15 = 995.06 FEET = 60.31 RODS = 2.28 ACRES
NW/4 SE/4 OF SECTION 15 = 243.27 FEET = 14.74 RODS = 0.56 OF AN ACRE
NE/4 SE/4 OF SECTION 15 = 636.07 FEET = 38.55 RODS = 1.46 ACRES

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A 100' BURIED AND SURFACE FLOWLINE EASEMENT FOR:

## *XTO PERMIAN OPERATING, LLC.*

## POKER LAKE UNIT 15 BD

SITUATED IN
SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\DWG\Exhibits\FLOWLINES.dwg

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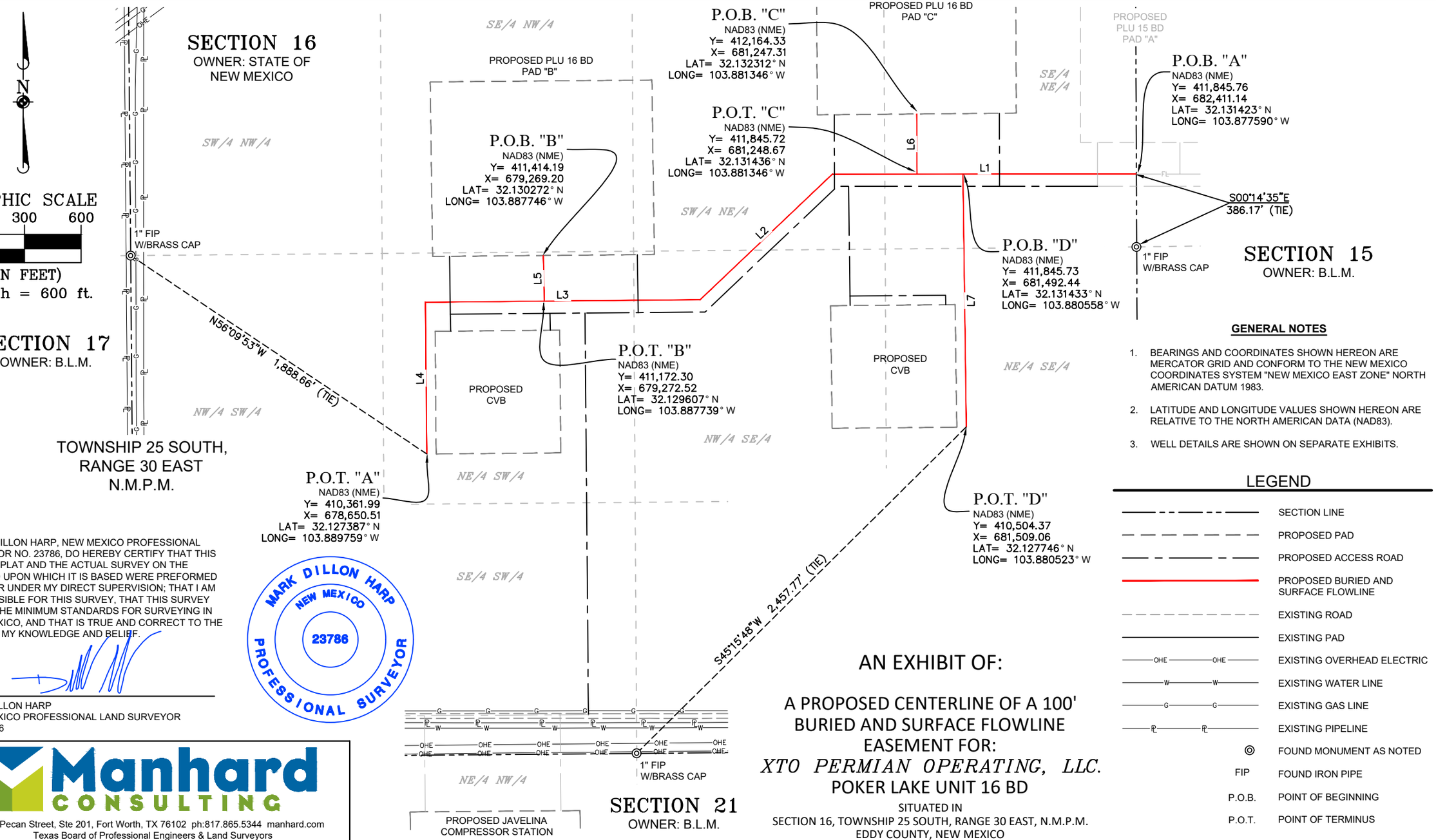
Page 166 of 260




**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.

LEGEND

- SECTION LINE
- PROPOSED PAD
- PROPOSED ACCESS ROAD
- PROPOSED BURIED AND SURFACE FLOWLINE
- EXISTING ROAD
- EXISTING PAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING PIPELINE
- FOUND MONUMENT AS NOTED
- FIP — FOUND IRON PIPE
- P.O.B. — POINT OF BEGINNING
- P.O.T. — POINT OF TERMINUS

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 A 100' BURIED AND SURFACE FLOWLINE EASEMENT FOR:

## *XTO PERMIAN OPERATING, LLC.*

## POKER LAKE UNIT 16 BD

SITUATED IN
SECTION 16, 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)

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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.33 – PLU 16 Brushy Draw\DWG\Exhibits\FLOWLINE.dwg

Received by OCD: 1/30/2026 4:36:40 PM
Released to Imaging: 4/27/2026 7:03:45 AM

Page 167 of 260

Received by OCD: 1/30/2026 4:36:40 PM

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S89°59'52"W | 1610.35' |
| L2 | S46°28'31"W | 967.65' |
| L3 | S89°30'50"W | 1455.54' |
| L4 | S00°29'10"E | 805.00' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L5 | S00°47'13"E | 241.91' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L6 | S00°14'35"E | 318.61' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | S00°42'36"E | 1341.47' |

TOTAL LENGTH =
6,740.53 FEET OR 408.52 RODS

POKER LAKE UNIT 16 BD PROPOSED 100' BURIED AND SURFACE FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 100.0 FEET WIDE AND 6,740.53 FEET, 408.52 RODS, OR 1.28 MILES IN LENGTH CROSSING SECTION 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 50.0 FEET RIGHT AND 50.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 15.14 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

NE/4 SW/4 OF SECTION 16 = 2,151.65 FEET = 130.40 RODS = 4.83 ACRES
NW/4 SE/4 OF SECTION 16 = 732.29 FEET = 44.38 RODS = 1.68 ACRES
SW/4 NE/4 OF SECTION 16 = 863.08 FEET = 52.31 RODS = 1.98 ACRES
SE/4 NE/4 OF SECTION 16 = 2,046.10 FEET = 124.01 RODS = 4.47 ACRES
NE/4 SE/4 OF SECTION 16 = 947.41 FEET = 57.42 RODS = 2.18 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).
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

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF A 100' BURIED AND SURFACE FLOWLINE EASEMENT FOR:

## *XTO PERMIAN OPERATING, LLC.*

## POKER LAKE UNIT 16 BD

SITUATED IN
SECTION 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M. EDDY COUNTY, NEW MEXICO

Manhard CONSULTING
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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 2 OF 2 |

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Page 168 of 260

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED OVERHEAD ELECTRIC LINE 50' |
| | EXISTING ROAD |
| | EXISTING PAD |
| OHE OHE | EXISTING OVERHEAD ELECTRIC |
| W W | EXISTING WATER LINE |
| G G | EXISTING GAS LINE |
| PL PL | EXISTING PIPELINE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

GRAPHIC SCALE
0 300 600
(IN FEET)
1 inch = 600 ft.

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

### GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
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SECTION 11
OWNER: B.L.M.

SECTION 14
OWNER: B.L.M.

SECTION 13
OWNER: B.L.M.

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

P.O.B. "A"
AT EXISTING ELECTRIC
NAD83 (NME)
Y= 412,808.14
X= 693,156.17
LAT= 32.133938° N
LONG= 103.842865° W

1" FIP
W/BRASS CAP

P.O.T. "B"
NAD83 (NME)
Y= 412,932.96
X= 692,163.51
LAT= 32.134294° N
LONG= 103.846070° W

PROPOSED PLU 14 BD
PAD "C"

P.O.T. "D"
NAD83 (NME)
Y= 412,931.97
X= 691,090.93
LAT= 32.134304° N
LONG= 103.849535° W

P.O.B. "B"
NAD83 (NME)
Y= 412,814.15
X= 692,163.62
LAT= 32.133967° N
LONG= 103.846071° W

P.O.B. "D"
NAD83 (NME)
Y= 412,820.65
X= 691,091.03
LAT= 32.133998° N
LONG= 103.849536° W

P.O.B. "C"
NAD83 (NME)
Y= 412,815.24
X= 691,984.61
LAT= 32.133972° N
LONG= 103.846650° W

PROPOSED
CVB

P.O.T. "C"
NAD83 (NME)
Y= 412,525.23
X= 691,984.42
LAT= 32.133175° N
LONG= 103.846655° W

S03°24'47"W
1,267.12' (TIE)

N00°02'21"W
281.63' (TIE)

P.O.T. "A"
NAD83 (NME)
Y= 411,254.31
X= 687,744.86
LAT= 32.129734° N
LONG= 103.860369° W

L1 L2 L3 L4 L5 L6 L7 L8

SE/4 SE/4 | SW/4 SE/4 | NW/4 NE/4 | NE/4 NE/4 | SW/4 NW/4 | SE/4 NW/4 | SW/4 NE/4 | SE/4 NE/4 | NE/4 SW/4 | NW/4 SW/4 | NE/4 SE/4 | NW/4 SE/4

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF AN OVERHEAD ELECTRIC EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTIONS 13 AND 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 1 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\OVERHEAD ELECTRIC.dwg

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Page 169 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S89°39'11"E | 74.59' |
| L2 | N89°39'11"W | 2033.84' |
| L3 | S28°16'37"W | 2557.70' |
| L4 | N86°28'37"W | 1225.42' |
| L5 | N54°52'49"W | 1061.35' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L6 | N00°03'10"W | 118.81' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | S00°02'18"W | 290.00' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L8 | N00°03'10"W | 111.32' |

TOTAL LENGTH =
7,473.03 FEET OR 452.91 RODS

## 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

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)

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POKER LAKE UNIT 14 BD PROPOSED OVERHEAD ELECTRIC DESCRIPTION:

SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 7,473.03 FEET, 452.91 RODS, OR 1.42 MILES IN LENGTH CROSSING SECTIONS 13 AND 14, 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 8.50 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

SW/4 NW/4 OF SECTION 13 = 74.59 FEET = 4.52 RODS = 0.09 OF AN ACRE
SE/4 NE/4 OF SECTION 14 = 1,684.04 FEET = 102.06 RODS = 1.88 ACRES
NE/4 NE/4 OF SECTION 14 = 59.04 FEET = 3.58 RODS = 0.07 OF AN ACRE
SW/4 NE/4 OF SECTION 14 = 2,091.11 FEET = 126.74 RODS = 2.37 ACRES
NW/4 NE/4 OF SECTION 14 = 59.24 FEET = 3.59 RODS = 0.07 OF AN ACRE
SE/4 NW/4 OF SECTION 14 = 115.55 FEET = 7.00 RODS = 0.13 OF AN ACRE
NE/4 SW/4 OF SECTION 14 = 1,860.90 FEET = 112.78 RODS = 2.14 ACRES
NW/4 SW/4 OF SECTION 14 = 1,528.56 FEET = 92.64 RODS = 1.75 ACRES

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF AN OVERHEAD ELECTRIC EASEMENT FOR XTO PERMIAN OPERATING, LLC. POKER LAKE UNIT 14 BD

SITUATED IN
SECTIONS 13 AND 14, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: | DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
|---|---|---|---|---|---|---|---|
| AI | 10/21/2024 | 1" = 600' | 618.013003.35 | JP | RD | 0 | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.35 – PLU 14 Brushy Draw\DWG\Exhibits\OVERHEAD ELECTRIC.dwg

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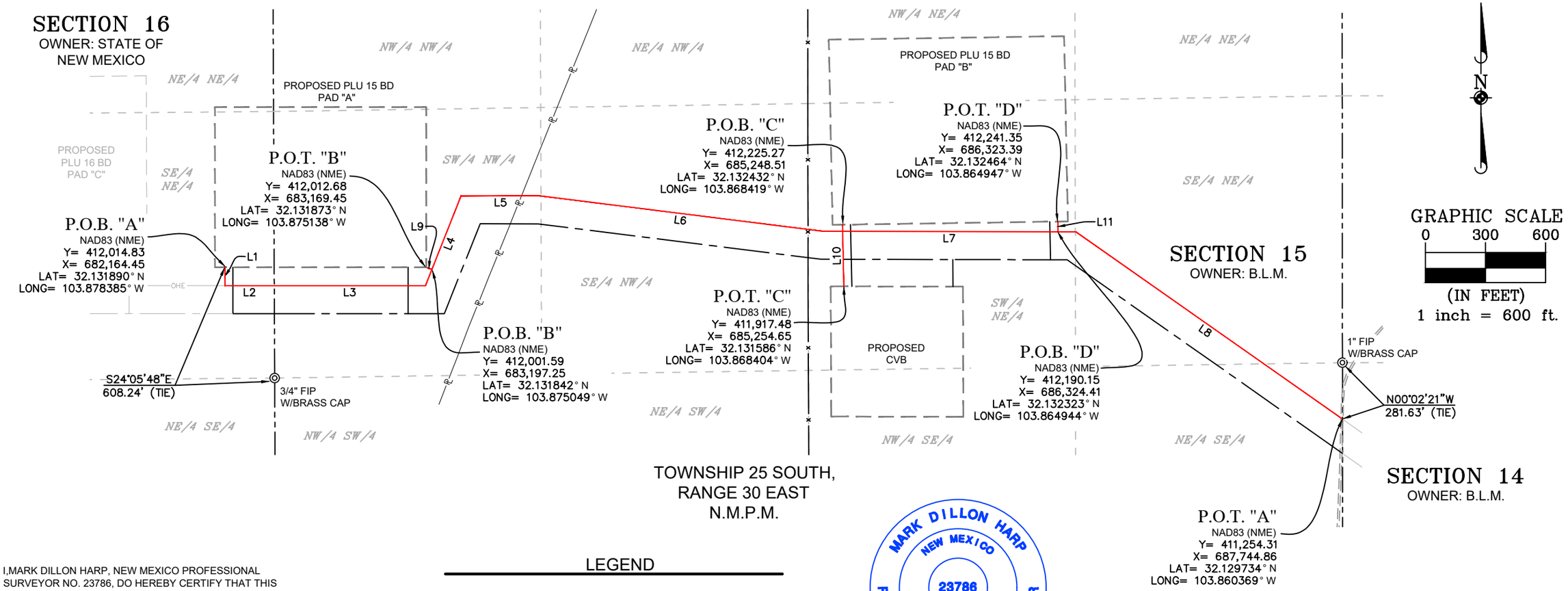
Page 170 of 260




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

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

## LEGEND

| | |
|---|---|
| | SECTION LINE |
| | PROPOSED PAD |
| | PROPOSED ACCESS ROAD |
| | PROPOSED OVERHEAD ELECTRIC |
| | EXISTING ROAD |
| | EXISTING PAD |
| | EXISTING PIPELINE |
| | EXISTING FENCE |
| ◎ | FOUND MONUMENT AS NOTED |
| FIP | FOUND IRON PIPE |
| P.O.B. | POINT OF BEGINNING |
| P.O.T. | POINT OF TERMINUS |

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF AN OVERHEAD ELECTRIC EASEMENT FOR:

*XTO PERMIAN OPERATING, LLC.*

POKER LAKE UNIT 15 BD

SITUATED IN
SECTIONS 15 AND 16, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

**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.

Manhard CONSULTING
505 Pecan Street, Ste 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors
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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 1 OF 2 |

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Page 171 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | S00°00'08"E | 94.08' |
| L2 | N89°59'52"E | 246.37' |
| L3 | N89°59'52"E | 754.21' |
| L4 | N21°44'11"E | 483.28' |
| L5 | S89°58'13"E | 394.23' |
| L6 | S82°51'10"E | 1420.92' |
| L7 | S89°52'30"E | 1266.44' |
| L8 | S54°52'49"E | 1626.39' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N68°15'49"W | 29.93' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L10 | S01°08'37"E | 307.85' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L11 | N01°08'37"W | 51.21' |

TOTAL LENGTH =
6,674.91 FEET OR 404.54 RODS

POKER LAKE UNIT 15 BD PROPOSED OVERHEAD ELECTRIC DESCRIPTION:

SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 340.45 FEET, 20.63 RODS, OR 0.06 MILES IN LENGTH CROSSING SECTION 16, 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 0.39 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**STATE LAND LINE SEGMENTS: L1 & L2**

SE/4 NE/4 OF SECTION 16 = 340.45 FEET = 20.63 RODS = 0.39 OF AN ACRE

POKER LAKE UNIT 15 BD PROPOSED OVERHEAD ELECTRIC DESCRIPTION:

SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 6,334.46 FEET, 383.91 RODS, OR 1.20 MILES IN LENGTH CROSSING SECTION 15, 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 7.18 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**BLM LAND LINE SEGMENTS: L3 THROUGH L11**

SW/4 NW/4 OF SECTION 15 = 1,666.21 FEET = 100.98 RODS = 1.91 ACRES
SE/4 NW/4 OF SECTION 15 = 1,344.70 FEET = 81.50 RODS = 1.54 ACRES
SW/4 NE/4 OF SECTION 15 = 1,693.20 FEET = 102.62 RODS = 1.86 ACRES
SE/4 NE/4 OF SECTION 15 = 1,150.57 FEET = 69.73 RODS = 1.32 ACRES
NE/4 SE/4 OF SECTION 15 = 479.78 FEET = 29.08 RODS = 0.55 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 PERMIAN OPERATING, LLC.*

POKER LAKE UNIT 15 BD

SITUATED IN
SECTIONS 15 AND 16, 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)

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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.34 | AI | RD | NO | 2 OF 2 |

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\DWG\Exhibits\OVERHEAD ELECTRIC.dwg

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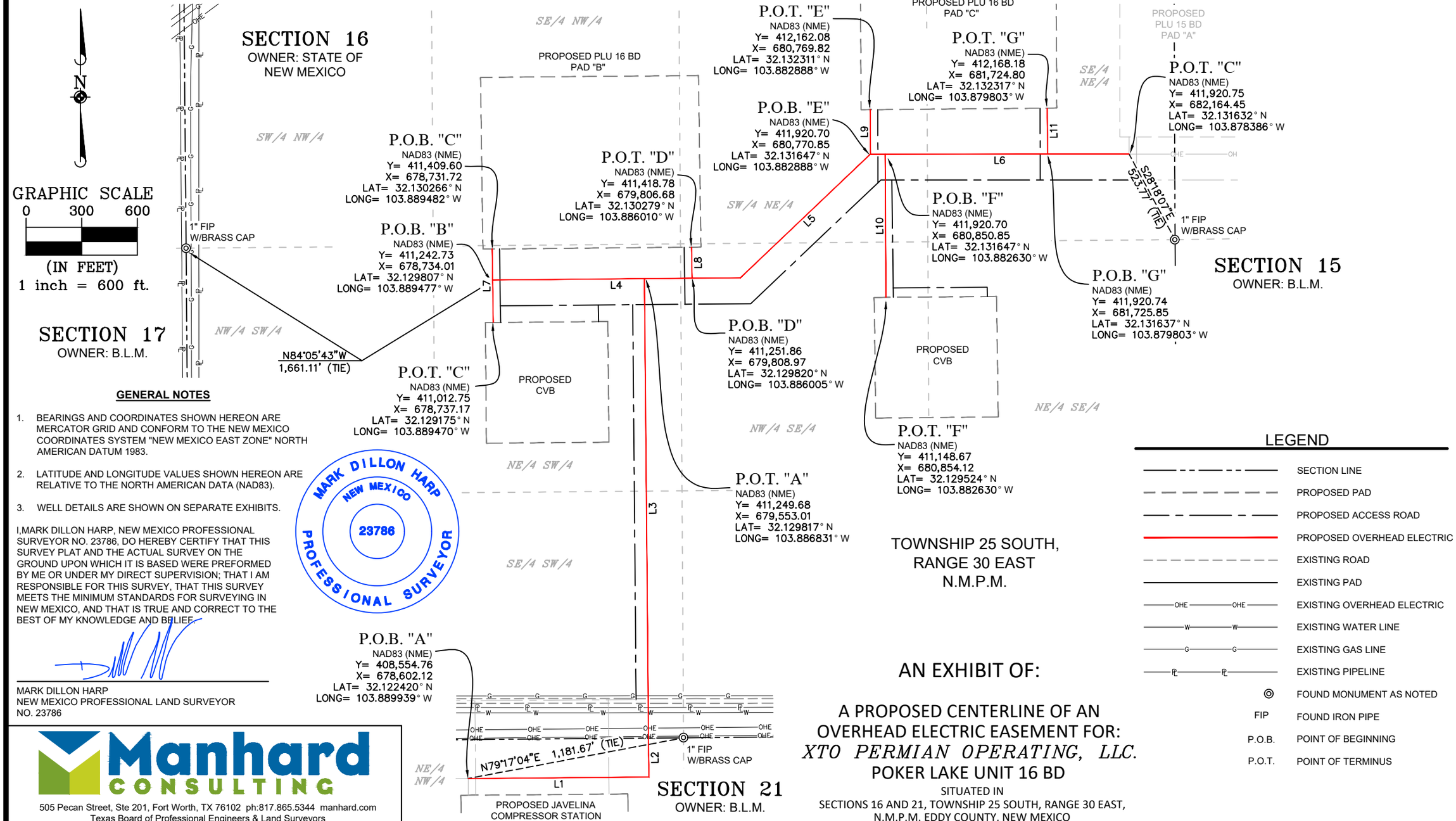
Page 172 of 260




## 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

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

## LEGEND

- SECTION LINE
- PROPOSED PAD
- PROPOSED ACCESS ROAD
- PROPOSED OVERHEAD ELECTRIC
- EXISTING ROAD
- EXISTING PAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING PIPELINE
- FOUND MONUMENT AS NOTED
- FIP FOUND IRON PIPE
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINUS

# AN EXHIBIT OF:

A PROPOSED CENTERLINE OF AN OVERHEAD ELECTRIC EASEMENT FOR:
*XTO PERMIAN OPERATING, LLC.*
POKER LAKE UNIT 16 BD
SITUATED IN
SECTIONS 16 AND 21, 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)

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|---|---|---|---|---|---|---|---|
| DB | 10/21/2024 | 1" = 600' | 618.013003.33 | AI | RD | NO | 1 OF 2 |

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Page 173 of 260

| LINE TABLE "A" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | N89°31'16"E | 973.72' |
| L2 | N00°29'10"W | 210.00' |
| L3 | N00°29'10"W | 2476.88' |

| LINE TABLE "B" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L4 | N89°30'50"E | 1335.00' |
| L5 | N46°28'31"E | 968.02' |
| L6 | N89°59'52"E | 1393.60' |

| LINE TABLE "C" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L7 | S00°47'13"E | 396.88' |

| LINE TABLE "D" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L8 | N00°47'13"W | 166.94' |

| LINE TABLE "E" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L9 | N00°14'35"W | 241.38' |

| LINE TABLE "F" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L10 | S00°14'35"E | 772.04' |

| LINE TABLE "G" | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L11 | N00°14'35"W | 247.45' |

TOTAL LENGTH =
9,181.91 FEET OR 556.48 RODS

## 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

POKER LAKE UNIT 16 BD PROPOSED OVERHEAD ELECTRIC DESCRIPTION:

SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 1,183.72 FEET, 71.74 RODS, OR 0.22 MILES IN LENGTH CROSSING SECTION 21, 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 1.36 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**BLM LAND LINE SEGMENTS: L1 & L2**

NE/4 NW/4 OF SECTION 21 = 1,183.72 FEET = 71.74 RODS = 1.36 ACRES

POKER LAKE UNIT 16 BD PROPOSED OVERHEAD ELECTRIC DESCRIPTION:

SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 7,998.19 FEET, 484.74 RODS, OR 1.51 MILES IN LENGTH CROSSING SECTION 16, 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 9.01 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

**STATE LAND LINE SEGMENTS: L3 THROUGH L11**

SE/4 SW/4 OF SECTION 16 = 1,331.06 FEET = 80.67 RODS = 1.53 ACRES
NE/4 SW/4 OF SECTION 16 = 2,556.63 FEET = 154.95 RODS = 2.88 ACRES
NW/4 SE/4 OF SECTION 16 = 1,057.05 FEET = 64.06 RODS = 1.18 ACRES
SW/4 NE/4 OF SECTION 16 = 1,718.86 FEET = 104.17 RODS = 1.92 ACRES
SE/4 NE/4 OF SECTION 16 = 1,334.59 FEET = 80.88 RODS = 1.50 ACRES

# AN EXHIBIT OF:

## A PROPOSED CENTERLINE OF AN OVERHEAD ELECTRIC EASEMENT FOR:

*XTO PERMIAN OPERATING, LLC.*

POKER LAKE UNIT 16 BD

SITUATED IN
SECTIONS 16 AND 21, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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505 Pecan Street, Ste 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com
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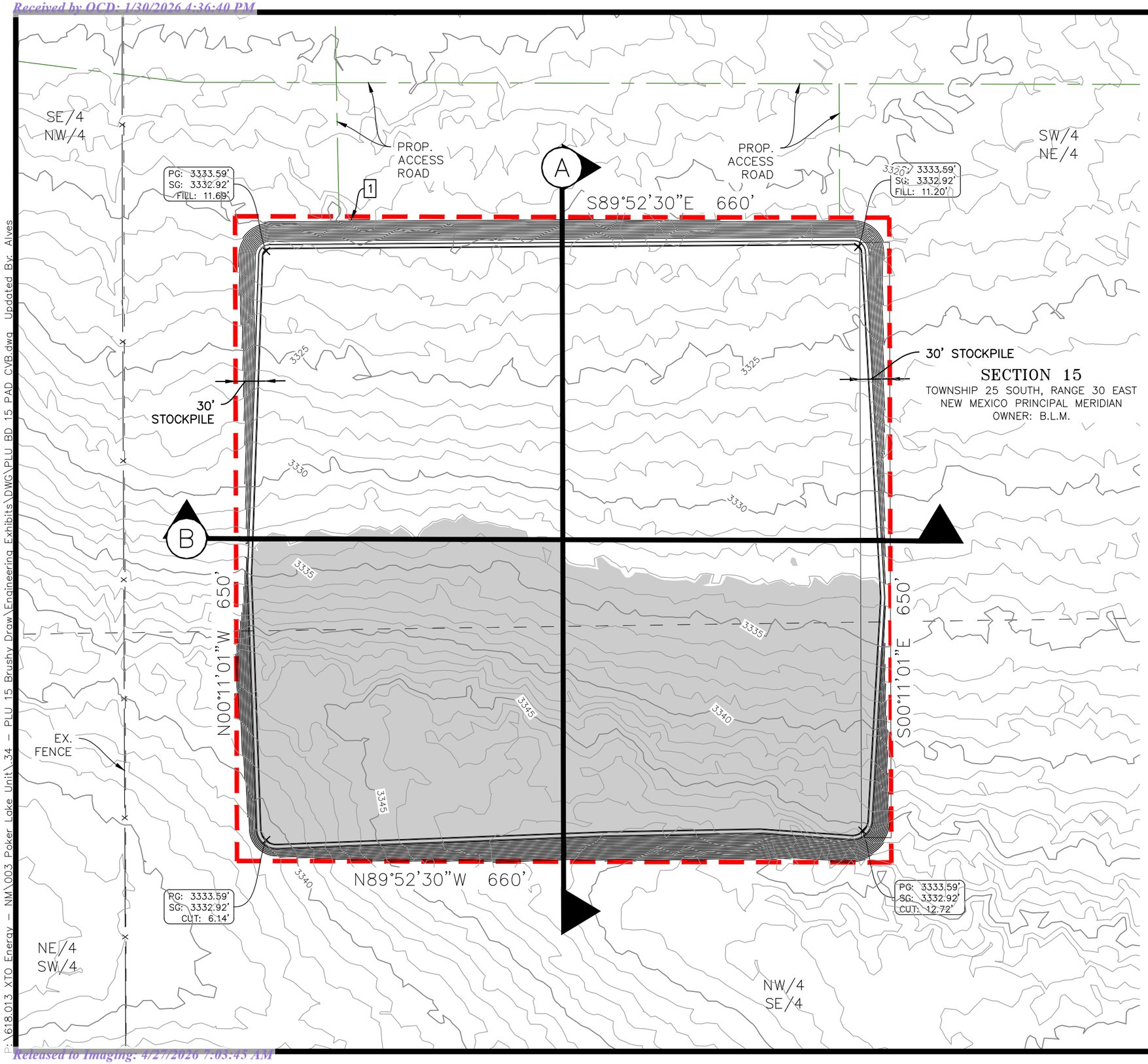
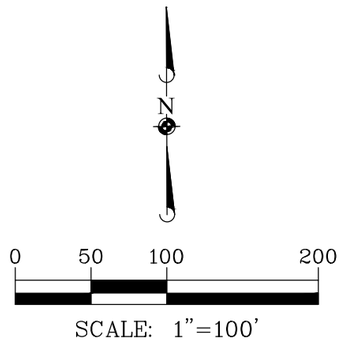


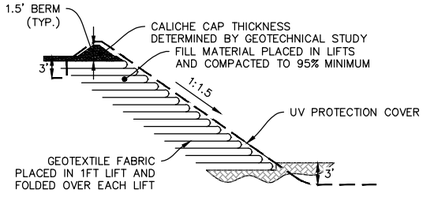

| CUT AND FILL CALCULATIONS | |
|---|---|
| Cut: | 55,000 CY |
| Fill: | 55,000 CY |
| Excess: | 0 CY |
| Topsoil/Stockpile (6"): | 7,900 CY |
| Subsoil/Stockpile (6"): | 7,900 CY |
| Allowable Topsoil: | 3,200 CY |
| Allowable Subsoil: | 3,200 CY |
| Total Caliche: | 9,100 CY |
| Cut/Fill Factor: | 1.00 |
| Max Disturbance: | 9.60 ACRES |
| Pad Area: | 9.85 ACRES |
| % Disturbed | 97.43 % |

LEGEND

- CUT AREA
- STRONGBACK AREA
- PERMITTED WELL
- TBD WELL
- [1] BIGGEST FILL POINT

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.




REINFORCED SOIL SLOPE WALL
N.T.S
x15 LIFT AT LARGEST FILL AREA

# PAD CUT AND FILL EXHIBIT
# POKER LAKE UNIT 15 BD PAD CVB

XTO PERMIAN OPERATING, LLC.

SITUATED IN SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DRAWN BY: AI | RELEASE DATE: 03/26/2025 | SCALE: 1" = 100' | CODE: 618.013003.34

JEBGEREND CONRAD
NEW MEXICO
27345
PROFESSIONAL ENGINEER

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Construction Managers | Environmental Scientists | Landscape Architects | Planners

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\34 - PLU 15 Brushy Draw\Engineering Exhibits\DWG\PLU_BD_15_PAD_CVB.dwg Updated By: Alves

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




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

**PAD CUT AND FILL EXHIBIT**
**POKER LAKE UNIT 15 BD PAD CVB**

**XTO PERMIAN OPERATING, LLC.**

**SITUATED IN SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO**

| DRAWN BY: | RELEASE DATE: | SCALE: | CODE: |
|---|---|---|---|
| AI | 03/05/2025 | 1" = 100' | 618.013003.34 |

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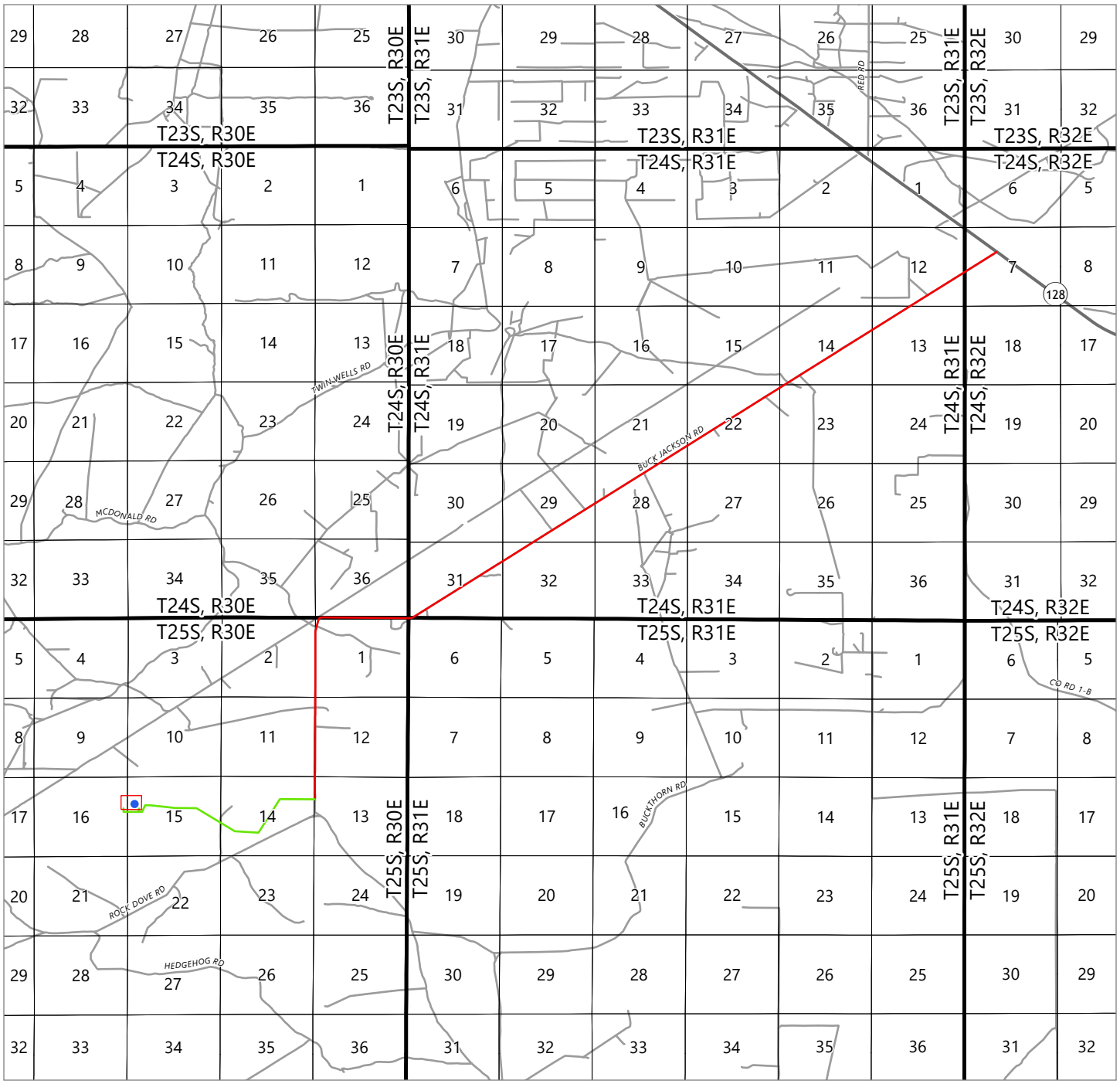
P:\618.013 XTO Energy – NM\003 Poker Lake Unit\34 – PLU 15 Brushy Draw\Engineering Exhibits\DWG\PLU_BD_15_PAD_CVB.dwg Updated By: CCrisafulli




**DRIVING DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF HIGHWAY 128 (JAL HIGHWAY) AND BUCK JACKSON ROAD, GO SOUTHWEST ON BUCK JACKSON ROAD FOR APPROX. 11.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

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

N

**LEGEND**

- POKER LAKE UNIT 15-34 BD 305H WELL LOCATION
- PROPOSED WELL PAD
- DRIVING ROUTE
- PROPOSED ACCESS ROAD = 13553'

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

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**A VICINITY MAP FOR XTO PERMIAN OPERATING, LLC.**
**POKER LAKE UNIT 15-34 BD 305H**

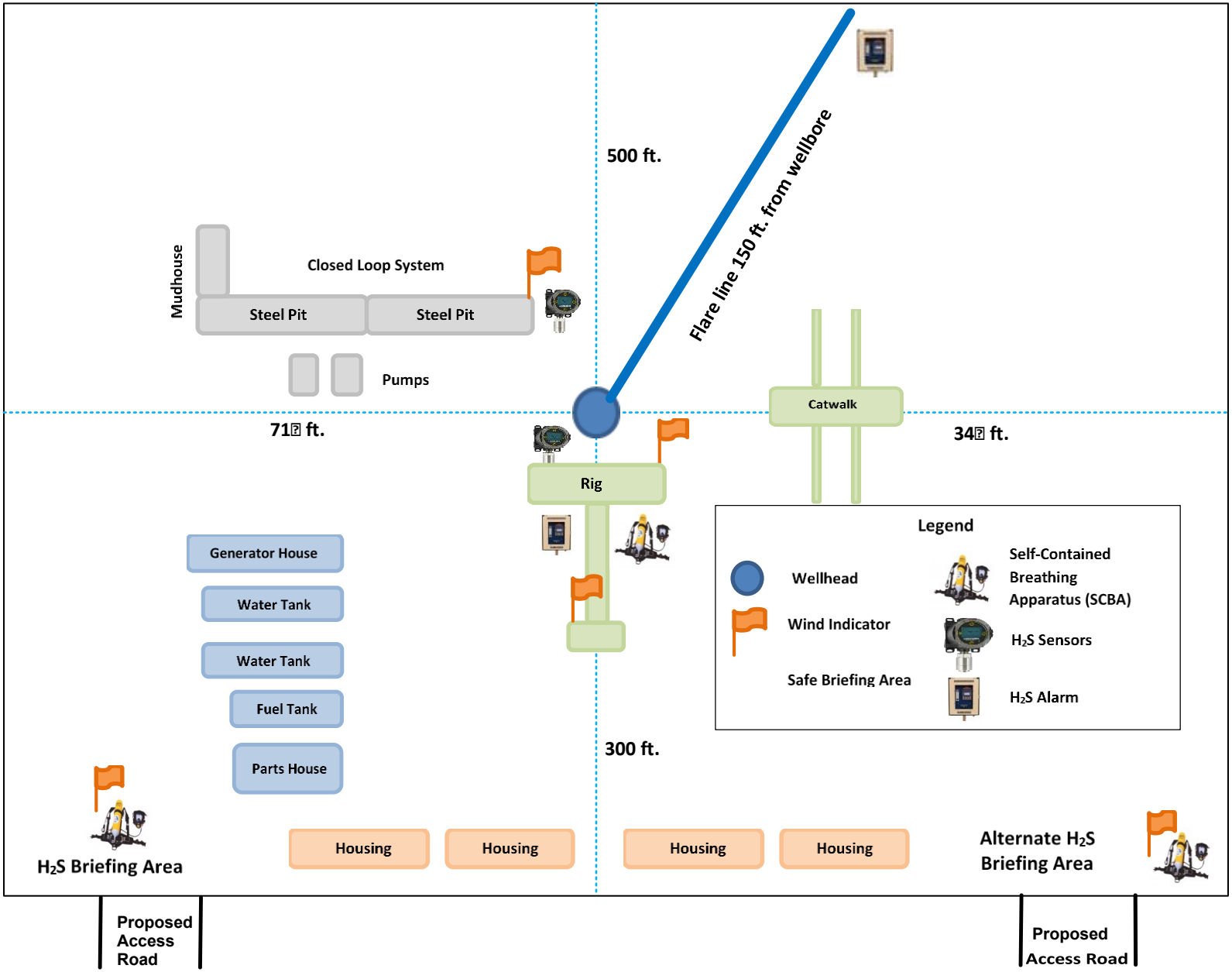
LOCATED 1815 FEET FROM THE NORTH LINE AND 420 FEET FROM THE WEST LINE OF SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

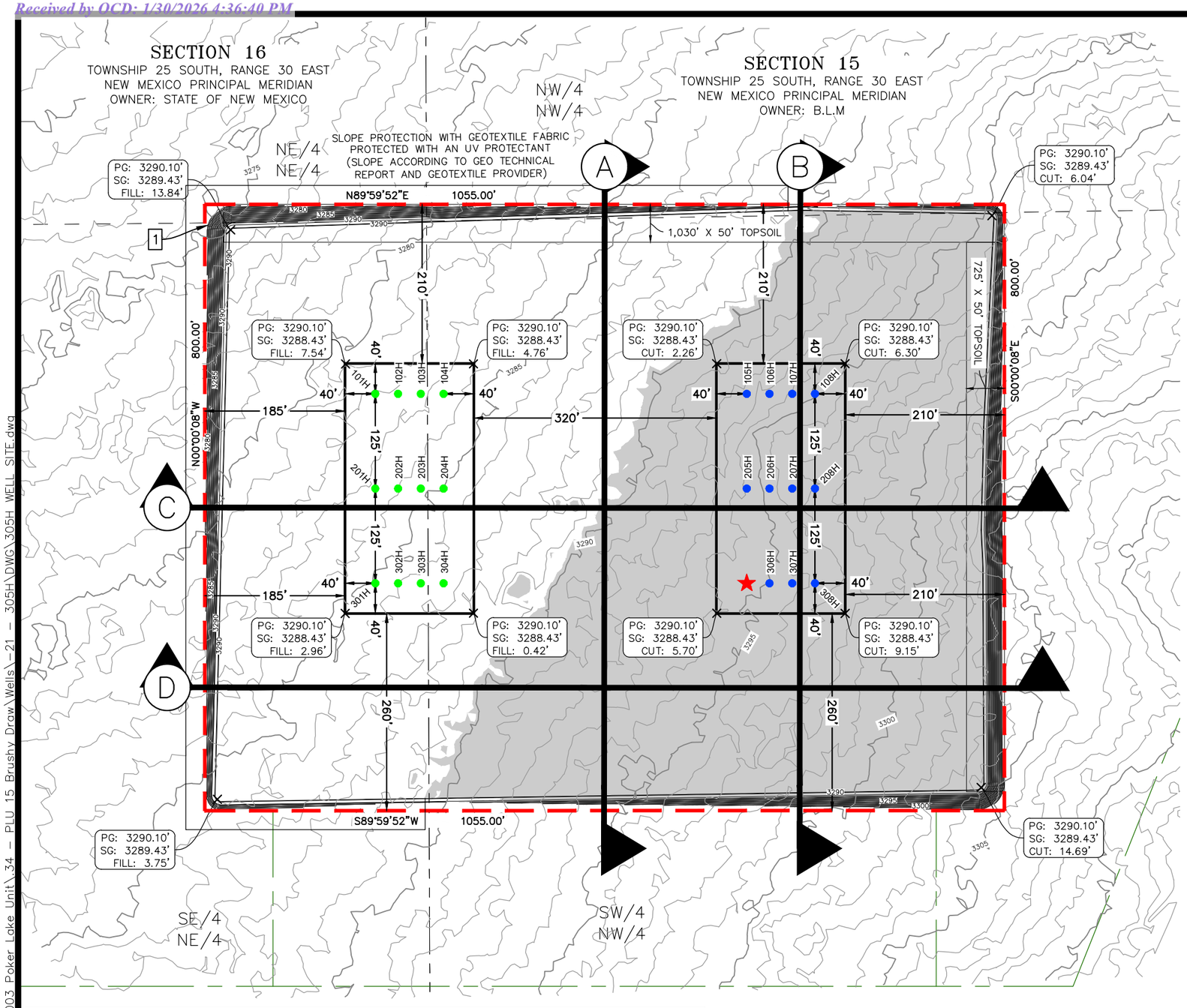
| CHECKED BY: | DATE: | SCALE: | PROJECT NUMBER: |
|---|---|---|---|
| AI | 9/17/2024 | 1":10,000' | 618.013003.34-21 |
| DRAWN BY: | FIELD CREW: | REVISION NUMBER: | SHEET: |
| RE | RD | 0 | 2 OF 3 |

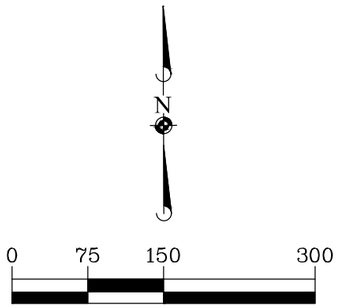
P:\618\013\XTO Energy - NM\003 Poker Lake Unit_34 - PLU 15 Bushy Draw\GIS\DRIVING DIRECTIONS\NM_WELLPLAT_PACKAGE\NM_WELLPLAT_PACKAGE.aprx

N

## ?? P?a??a????


500 ft.
Flare line 150 ft. from wellbore
Mudhouse
Closed Loop System
Steel Pit
Steel Pit
Pumps
71? ft.
Catwalk
34? ft.
Rig
Generator House
Water Tank
Water Tank
Fuel Tank
Parts House
Legend
Wellhead
Wind Indicator
Safe Briefing Area
Self-Contained Breathing Apparatus (SCBA)
H2S Sensors
H2S Alarm
300 ft.
H2S Briefing Area
Housing
Housing
Housing
Housing
Alternate H2S Briefing Area
Proposed Access Road
Proposed Access Road




FEATURE WELL LOCATION DETAIL

POKER LAKE UNIT 15-34 BD #305H
1,815' FNL & 420' FWL
ELEV.= 3,295'
NAD 83 (NME)
Y=412,312.7
X=682,829.4
LAT.=32.132701°N
LONG.=103.876233°W
NAD 27 (NME)
Y=412,254.1
X=641,644.7
LAT.=32.132576°N
LONG.=103.875750°W

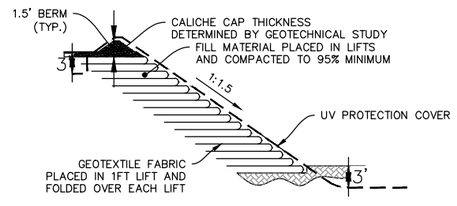
| CUT AND FILL CALCULATIONS | |
|---|---|
| Cut: | 85,400 CY |
| Fill: | 85,400 CY |
| Excess: | 0 CY |
| Topsoil/Stockpile (6"): | 15,600 CY |
| Subsoil/Stockpile (6"): | 15,600 CY |
| Allowable Topsoil: | 11,600 CY |
| Allowable Subsoil: | 8,200 CY |
| Total Caliche: | 23,100 CY |
| Cut/Fill Factor: | 1.00 |
| Max Disturbance: | 19.08 ACRES |
| Pad Area: | 19.38 ACRES |
| % Disturbed | 98.47 % |

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 15-27 BD
- PERMITTED WELL LOCATION 15-34 BD
- TBD WELL
- FEATURE WELL LOCATION
- 1 BIGGEST FILL POINT




REINFORCED SOIL SLOPE WALL
N.T.S
x16 LIFT AT LARGEST FILL AREA

PAD CUT AND FILL EXHIBIT
POKER LAKE UNIT 15-34 BD #305H

XTO PERMIAN OPERATING, LLC.

SITUATED IN SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

| DRAWN BY: | RELEASE DATE: | SCALE: | CODE: |
|---|---|---|---|
| YH | 02/20/2025 | 1" = 150' | 618.013003.34-21 |

JESSEREND CONRAD
NEW MEXICO
27345
PROFESSIONAL ENGINEER

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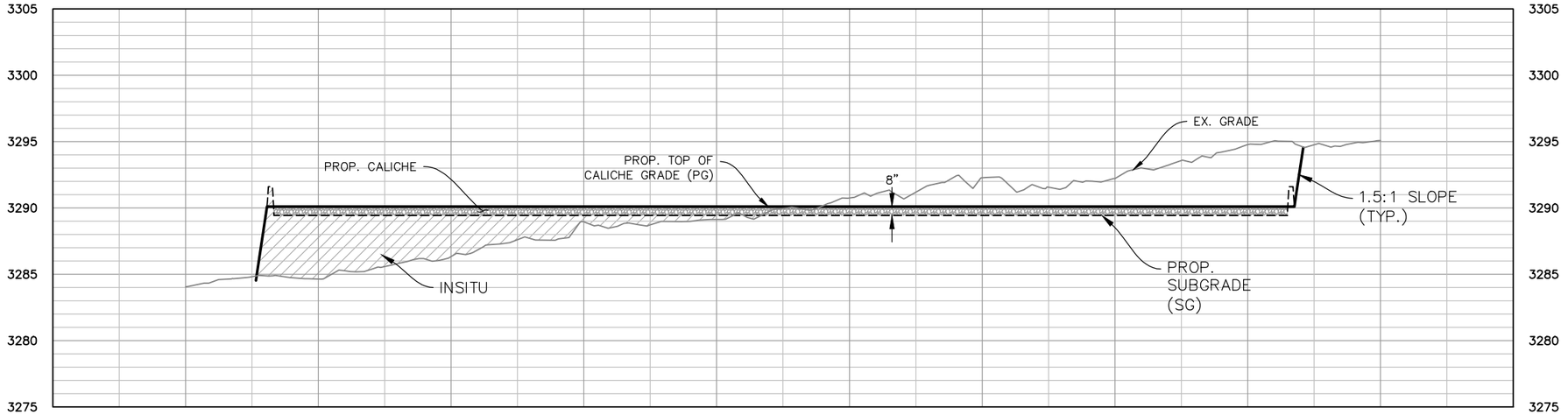
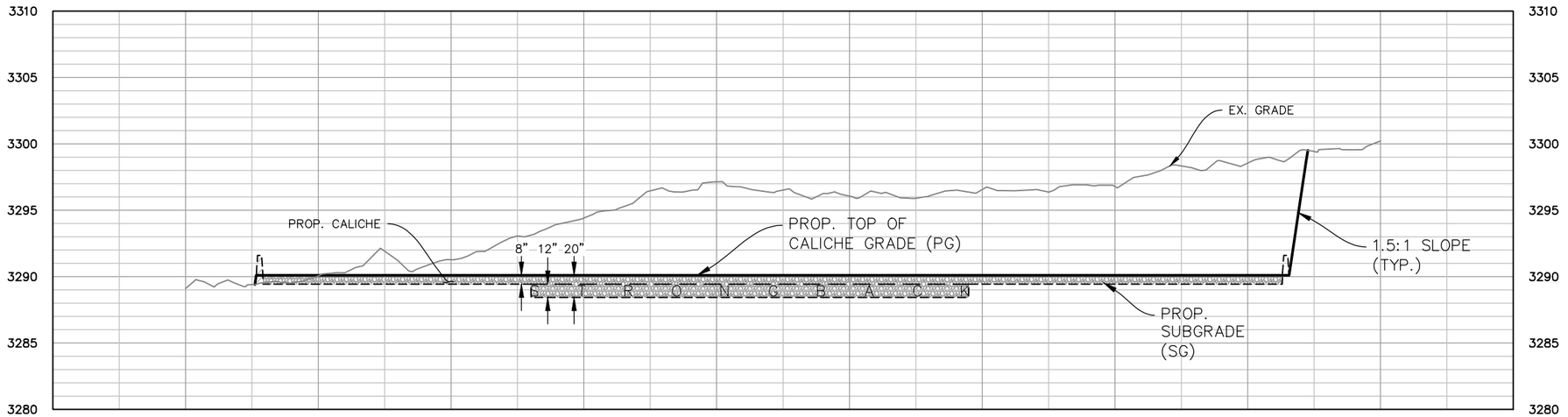
D:\618.013 XTO Energy - NM\003 Poker Lake Unit\34 - PLU 15 Brushy Draw Wells\21 - 305H\DWG\305H WELL SITE.dwg




**CROSS SECTION "A"**
**H: 1" = 150'**
**V: 1" = 15'**




**CROSS SECTION "B"**
**H: 1" = 150'**
**V: 1" = 15'**

**PAD CUT AND FILL EXHIBIT POKER LAKE UNIT 15 BD PAD A**

**XTO ENERGY, INC.**

**SITUATED IN SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO**

| DRAWN BY: | RELEASE DATE: | SCALE: | CODE: |
|---|---|---|---|
| KT | 02/17/2025 | 1" = 100' | 618.013003.34-01 |

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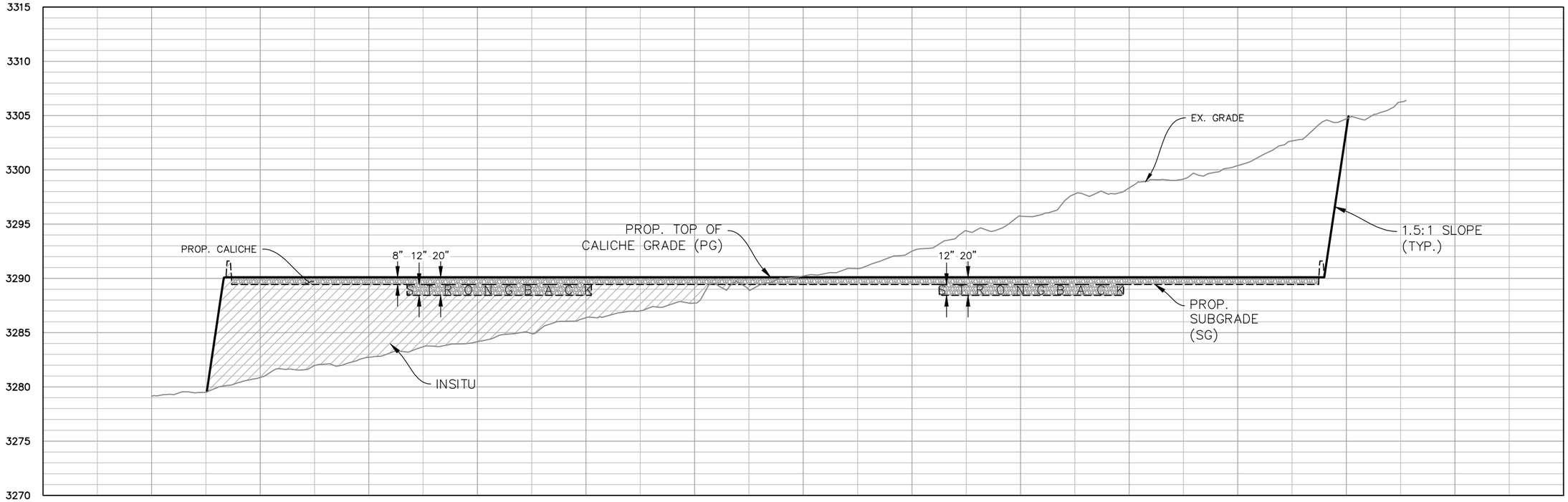
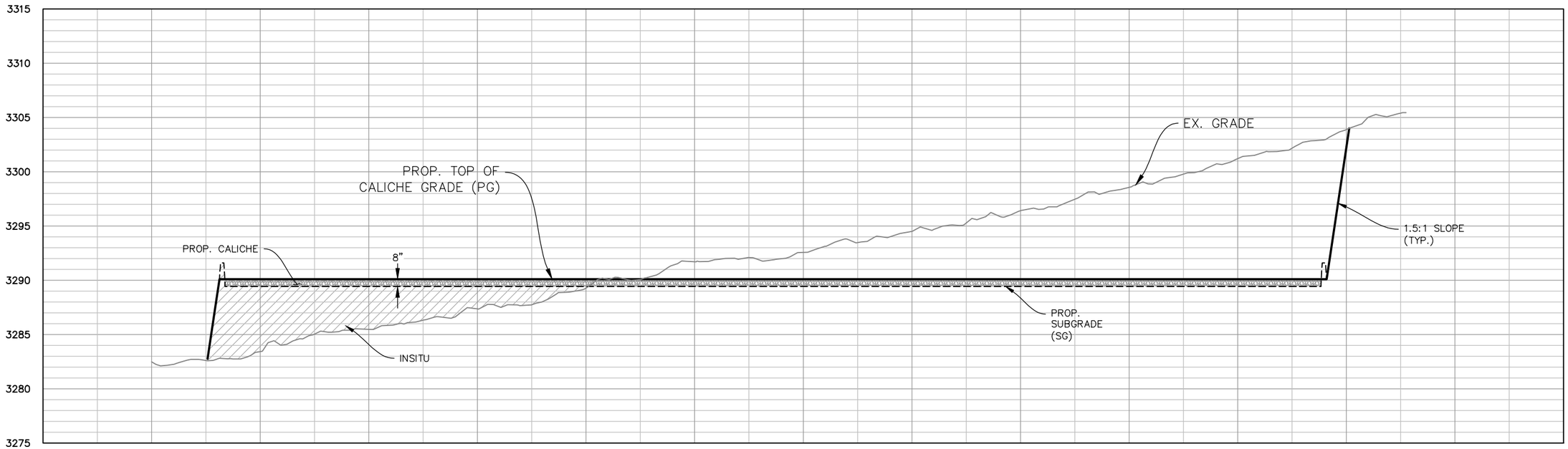
P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.34 - PLU 15 Brushy Draw\Wells\-01 - 101H\DWG\PACKET\101H WELL SITE.dwg Updated By: DBowers




**CROSS SECTION "C"**
**H: 1" = 150'**
**V: 1" = 15'**




**CROSS SECTION "D"**
**H: 1" = 150'**
**V: 1" = 15'**

**PAD CUT AND FILL EXHIBIT POKER LAKE UNIT 15 BD PAD A**

**XTO ENERGY, INC.**

**SITUATED IN SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO**

| DRAWN BY: | RELEASE DATE: | SCALE: | CODE: |
|---|---|---|---|
| KT | 02/17/2025 | 1" = 100' | 618.013003.34-01 |

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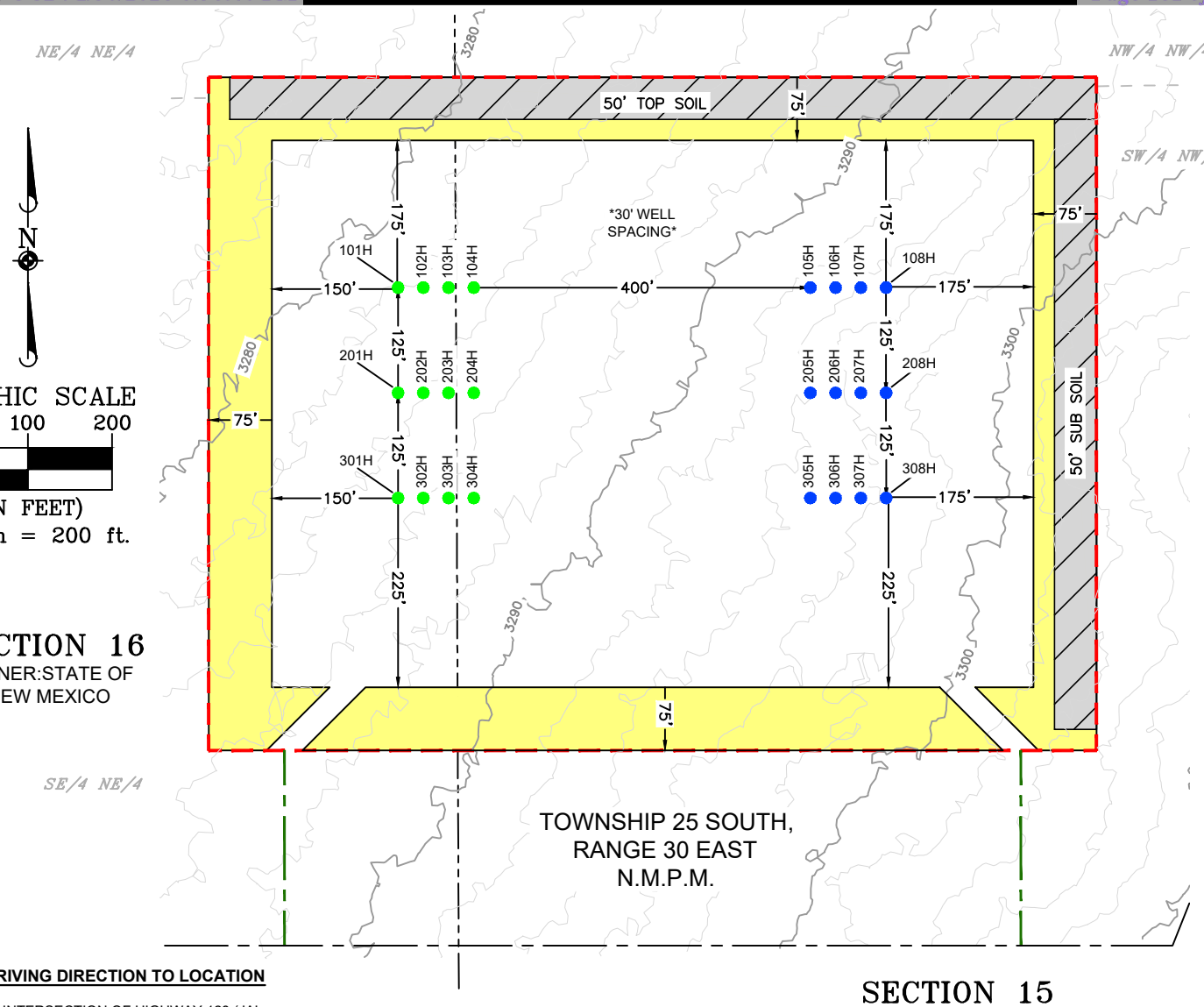
P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.34 - PLU 15 Brushy Draw\Wells\-01 - 101H\DWG\PACKET\101H WELL SITE.dwg Updated By: DBowers




**DRIVING DIRECTION TO LOCATION**

FROM THE INTERSECTION OF HIGHWAY 128 (JAL HIGHWAY) AND BUCK JACKSON ROAD, GO SOUTHWEST ON BUCK JACKSON ROAD FOR APPROX. 11.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

**GENERAL NOTES**

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

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

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE 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

| ACREAGE INFORMATION | |
|---|---|
| INITIAL DISTURBED AREA | = 19.375 ACRES |
| INTERIM RECLAMATION | = 5.725 ACRES |
| TOTAL PAD ACREAGE AFTER IR | = 13.650 ACRES |

LEGEND

- SECTION LINE
- PROPOSED PAD
- PROPOSED ACCESS ROAD
- TBD WELL LOCATION
- PERMITTED WELL LOCATION PLU 15-34 BD
- PERMITTED WELL LOCATION PLU 15-27 BD
- INTERIM RECLAMATION AREA

# A PAD LAYOUT FOR
# XTO PERMIAN OPERATING, LLC.
# POKER LAKE UNIT 15 BD PROPOSED PAD "A"

PAD CENTER IS LOCATED 1,712 FEET FROM THE NORTH LINE AND 233 FEET FROM THE WEST LINE OF SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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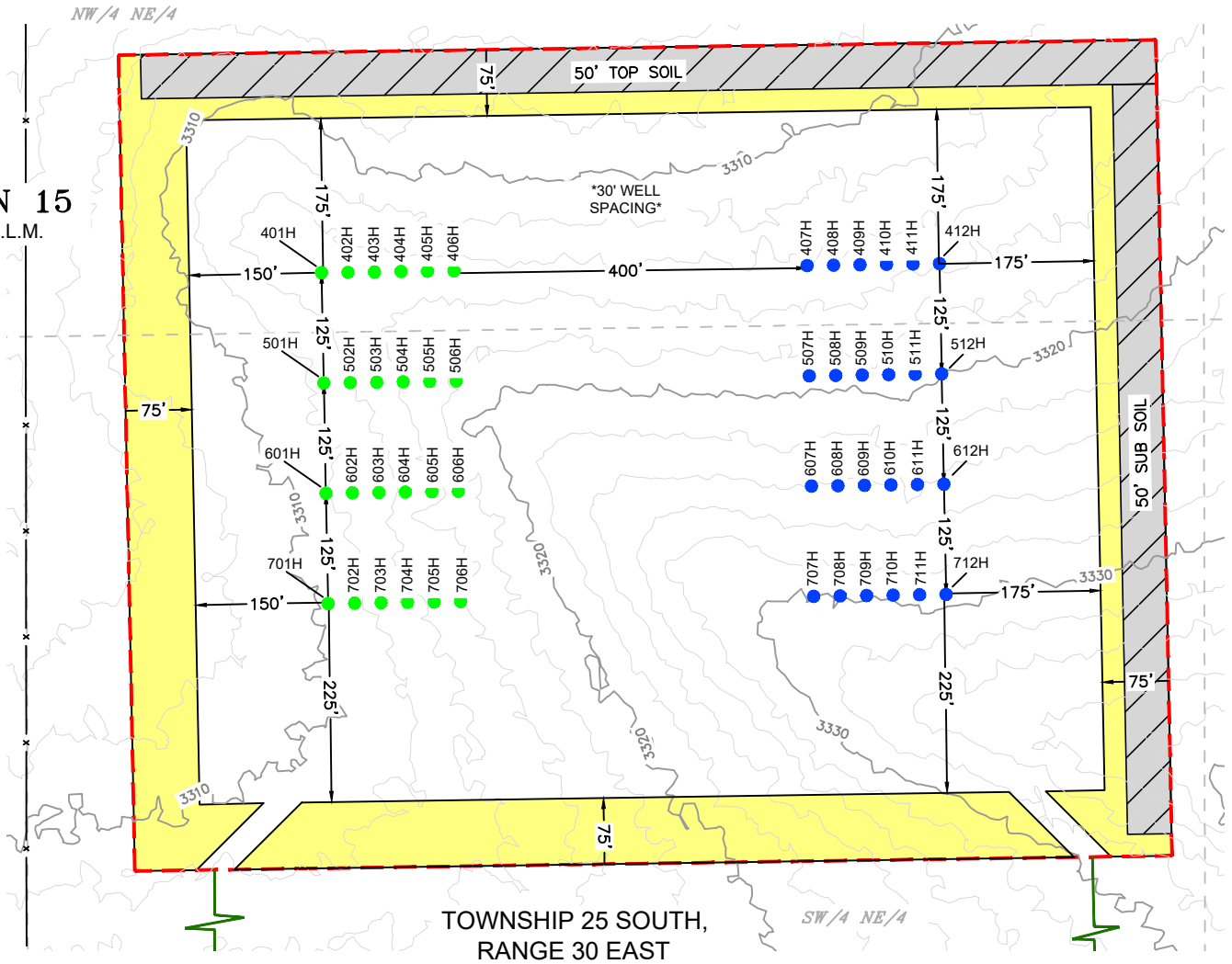
| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: |
|---|---|---|---|
| DB | 3/3/2025 | 1" = 200' | 618.013003.34 |
| DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
| AI | RD | 1 | 1 OF 1 |

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.34 - PLU 15 Brushy Draw\DWG\To-Client\PAD A INTERIM REC.dwg




**DRIVING DIRECTION TO LOCATION**

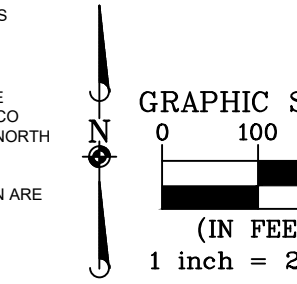
FROM THE INTERSECTION OF HIGHWAY 128 (JAL HIGHWAY) AND BUCK JACKSON ROAD, GO SOUTHWEST ON BUCK JACKSON ROAD FOR APPROX. 11.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

**GENERAL NOTES**

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

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE 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



| ACREAGE INFORMATION | |
|---|---|
| INITIAL DISTURBED AREA | = 24.951 ACRES |
| INTERIM RECLAMATION | = 6.569 ACRES |
| TOTAL PAD ACREAGE AFTER IR = 18.382 ACRES | |

LEGEND

- SECTION LINE
- EXISTING FENCE
- PROPOSED PAD
- PROPOSED ACCESS ROAD
- TBD WELL LOCATION
- PERMITTED WELL LOCATION PLU 15-34 BD
- PERMITTED WELL LOCATION PLU 15-27 BD
- INTERIM RECLAMATION AREA

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# A PAD LAYOUT FOR
# XTO PERMIAN OPERATING, LLC.
# POKER LAKE UNIT 15 BD PROPOSED PAD "B"

PAD CENTER IS LOCATED 1,477 FEET FROM THE NORTH LINE AND 1,967 FEET FROM THE EAST LINE OF SECTION 15, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

| CHECKED BY: | DATE: | SCALE: | PROJECT NO.: |
|---|---|---|---|
| DB | 3/3/2025 | 1" = 200' | 618.013003.34 |
| DRAWN BY: | FIELD CREW: | REVISION NO.: | SHEET: |
| AI | RD | 1 | 1 OF 1 |

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.34 - PLU 15 Brushy Draw\DWG\To-Client\PAD B INTERIM REC.dwg

## Surface Use Plan of Operations

| □a□ e□ | SHL N/S Footage (ft) | SHL N/S Footage Line | SHL E/W Footage (ft) | SHL E/W Footage Line |
|---|---|---|---|---|
| □o□er La□e □ni□ 1□□27 BD 101H | 1558 | FNL | 69 | FEL |
| □o□er La□e □ni□ 1□□27 BD 102H | 1559 | FNL | 39 | FEL |
| □o□er La□e □ni□ 1□□27 BD 10□H | 1559 | FNL | 9 | FEL |
| □o□er La□e □ni□ 1□□27 BD 104H | 1559 | FNL | 21 | FWL |
| □o□er La□e □ni□ 1□□27 BD 201H | 1683 | FNL | 69 | FEL |
| □o□er La□e □ni□ 1□□27 BD 202H | 1684 | FNL | 39 | FEL |
| □o□er La□e □ni□ 1□□27 BD 20□H | 1684 | FNL | 9 | FEL |
| □o□er La□e □ni□ 1□□27 BD 204H | 1684 | FNL | 21 | FWL |
| □o□er La□e □ni□ 1□□27 BD □01H | 1808 | FNL | 70 | FEL |
| □o□er La□e □ni□ 1□□27 BD □02H | 1809 | FNL | 40 | FEL |
| □o□er La□e □ni□ 1□□27 BD 402H | 1265 | FNL | 2303 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1809 | FNL | 10 | FEL |
| □o□er La□e □ni□ 1□□27 BD □04H | 1809 | FNL | 20 | FWL |
| □o□er La□e □ni□ 1□□27 BD 401H | 1265 | FNL | 2333 | FEL |
| □o□er La□e □ni□ 1□□27 BD 40□H | 1265 | FNL | 2273 | FEL |
| □o□er La□e □ni□ 1□□27 BD 404H | 1265 | FNL | 2243 | FEL |
| □o□er La□e □ni□ 1□□27 BD 40□H | 1265 | FNL | 2213 | FEL |
| □o□er La□e □ni□ 1□□27 BD 40□H | 1265 | FNL | 2183 | FEL |
| □o□er La□e □ni□ 1□□27 BD □01H | 1390 | FNL | 2331 | FEL |
| □o□er La□e □ni□ 1□□27 BD □02H | 1390 | FNL | 2301 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1390 | FNL | 2271 | FEL |
| □o□er La□e □ni□ 1□□27 BD □04H | 1390 | FNL | 2241 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1390 | FNL | 2211 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1390 | FNL | 2181 | FEL |

| | | | | |
|---|---|---|---|---|
| □o□er La□e □ni□ 1□□27 BD □01H | 1515 | FNL | 2329 | FEL |
| □o□er La□e □ni□ 1□□27 BD □02H | 1515 | FNL | 2299 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1515 | FNL | 2269 | FEL |
| □o□er La□e □ni□ 1□□27 BD □04H | 1515 | FNL | 2239 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1515 | FNL | 2209 | FEL |
| □o□er La□e □ni□ 1□□27 BD □0□H | 1515 | FNL | 2179 | FEL |
| □o□er La□e □ni□ 1□□27 BD 701H | 1640 | FNL | 2326 | FEL |
| □o□er La□e □ni□ 1□□27 BD 702H | 1640 | FNL | 2296 | FEL |
| □o□er La□e □ni□ 1□□27 BD 70□H | 1640 | FNL | 2266 | FEL |
| □o□er La□e □ni□ 1□□27 BD 704H | 1640 | FNL | 2236 | FEL |
| □o□er La□e □ni□ 1□□27 BD 70□H | 1640 | FNL | 2206 | FEL |
| □o□er La□e □ni□ 1□□27 BD 70□H | 1640 | FNL | 2176 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 10□H | 1565 | FNL | 421 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 10□H | 1566 | FNL | 451 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 107H | 1566 | FNL | 481 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 10□H | 1567 | FNL | 511 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 20□H | 1690 | FNL | 421 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 20□H | 1691 | FNL | 451 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 207H | 1691 | FNL | 481 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 20□H | 1692 | FNL | 511 | FWL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1815 | FNL | 420 | FWL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1816 | FNL | 450 | FWL |
| □o□er La□e □ni□ 1□□□4 BD □07H | 1816 | FNL | 480 | FWL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1817 | FNL | 510 | FWL |
| □o□er La□e □ni□ 1□□□4 BD 407H | 1265 | FNL | 1783 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 40□H | 1265 | FNL | 1754 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 40□H | 1265 | FNL | 1724 | FEL |

| □o□er La□e □ni□ 1□□□4 BD 410H | 1265 | FNL | 1694 | FEL |
|---|---|---|---|---|
| □o□er La□e □ni□ 1□□□4 BD 411H | 1265 | FNL | 1664 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 412H | 1265 | FNL | 1634 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □07H | 1390 | FNL | 1781 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1390 | FNL | 1751 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1390 | FNL | 1721 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □10H | 1390 | FNL | 1691 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □11H | 1390 | FNL | 1661 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □12H | 1390 | FNL | 1631 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □07H | 1515 | FNL | 1779 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1515 | FNL | 1749 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □0□H | 1515 | FNL | 1719 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □10H | 1515 | FNL | 1689 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □11H | 1515 | FNL | 1659 | FEL |
| □o□er La□e □ni□ 1□□□4 BD □12H | 1515 | FNL | 1629 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 707H | 1640 | FNL | 1776 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 70□H | 1640 | FNL | 1746 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 70□H | 1640 | FNL | 1716 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 710H | 1640 | FNL | 1686 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 711H | 1640 | FNL | 1656 | FEL |
| □o□er La□e □ni□ 1□□□4 BD 712H | 1640 | FNL | 1626 | FEL |

**Existing Roads:**

Individual well specific vicinity maps, topographical & access road maps issued by the registered surveyor, that show & identify the proposed well sites and access routes to the proposed wells as per the 43 CFR requirements have been attached with the individual APDs under SUPO section 1.

**New or Reconstructed Access Roads:**

All proposed access routes to the well sites as per the 43 CFR requirements have been described in the new road plat issued by the registered surveyor. The same has been attached with the individual APDs under SUPO Section 2. Proposed routes to the individual wells on the well site locations have been shown & identified on the well specific vicinity, topography & access road maps attached in SUPO section 1 of the individual APDs.

Below are the specifications for the new access roads that will be constructed –

- Road Width: All new access roads that will be constructed will be 30 feet wide
- Maximum Grade: Driving surface for all the new access roads will be made of 6″ rolled & compacted caliche
- Crown & Ditch Design: All the new access roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. Ditches will be 1 feet deep with a 3:1 slope
- Turnouts: No new turnouts will be constructed during the construction of new access roads
- Cattleguards: No new cattleguards will be constructed during the construction of new access roads
- Major cuts and fills: No significant cuts & fills will be required during the construction of new access roads
- Type of surfacing material: Surface material for all new access roads will be native caliche
- Road Drainage Control Structures: 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.
- Drainage control and new Road Access Erosion Control: 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.

**Location of existing wells:**

A map including all known wells with-in a one-mile radius of the Poker Lake Unit Row 4 development area, as per the 43 CFR requirements, is attached under SUPO section 3.

**Location of existing and/or proposed production facilities:**

Separate certified plats issued by the registered surveyor for the proposed central battery, flowlines & overhead electrical lines, as per the 43 CFR requirements have been attached under SUPO section 4. A detailed facility layout which describes the placement of the proposed facility components on the central battery with appropriate labels, as per the 43 CFR requirements, has also been attached under SUPO section 4.

A. **Production Facilities**. An attached certified plat provided additional details for the proposed facilities.
B. **Flowlines**: Up to 20" composite flex pipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be within proposed corridors where the oil, gas, and water will be metered and appropriately separated. A plat of the proposed flowline route showing length, beginning, and ending points for the lease is attached.
C. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed.
D. **Flare**. Located on the proposed facility pad and will be sized for 60 to 120 mmscf/d with min 150' of distance between all facility equipment, road and well pad locations for safety purposes.
□. **Aboveground Structures**. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone within BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment.
□. **Containment Berms**. Containment berms constructed completely around production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil/ Caliche.
G. **Electrical**. All electrical lines will be primary 115kV to properly run expected production equipment. Approximately 23,329.85 feet of electrical will be ran within the proposed corridor location. A plat of the proposed electrical showing length, beginning, and ending points is attached.

**Location & 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 coming from a third party that is all piped from either a pipeline or a pond (32.148919° -103.847674°) 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 flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 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.

**Construction Material:**

- Source: 32.09194, -103.8385
- Character: Lifts of compacted caliche
- Intended use: surfacing the drill pad, constructing the access roads, and maintenance

**Methods for handling waste:**

- Cuttings: Drill cuttings will be held in roll-off style mud boxes and will be taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site located at
- Drilling Fluids. These will be contained in steel mud pits and will be taken to an NMOCD approved commercial disposal facility located at
- Produced Fluids:
    - Water produced from the well during completions will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
    - Oil produced during operations will be stored in tanks until sold
- 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 located. 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 the drilling rig is removed, 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
- Sewage: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completions activities, or as required, the toilet holding tanks will be pumped and the contents thereof will be disposed 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.
- Hazardous Materials:

- All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA) located at and will not be reused at another drilling location
- No hazardous substances or wastes will be stored on the location after completion of the well.
- Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in the 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

**Ancillary Facilities:**

- No ancillary facilities will be required for the Poker Lake Unit Row 4development.

**Well Site Layout:**

- Certified well site layouts for the individual wells, issued by the registered surveyor, have been attached under SUPO section 9 of the APD
- Rig layouts for individual wells, as per the 43 CFR requirements, have also been attached under SUPO section of the individual APDs

**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. Reseeding of the topsoil stockpile in place will occur to maintain topsoil vitality until interim reclamation ensues. 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 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.

- 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.
- Existing Vegetation at the Well Pad, Road, Pipeline and 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.
- Reconstruction Method and Topsoil Redistribution: The original stockpiled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.
- Soil Treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) 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.

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.

- 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.
- 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.
- 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.
- 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.

**Surface Ownership:**

The majority of the Poker Lake Unit Row 4 Development is owned by the New Mexico State Land Office (NMSLO) and Bureau of land Management (BLM).

**Other Information:**

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

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

AFMSS

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

# PWD Data Report

01/30/2026

**APD ID:** 10400102818 **Submission Date:** 12/30/2024

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

**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:** POKER LAKE UNIT 15-34 BD **Well Number:** 305H

## 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**

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BUREAU OF LAND MANAGEMENT

# Bond Info Data
01/30/2026

**APD ID:** 10400102818
**Submission Date:** 12/30/2024
**Operator Name:** XTO PERMIAN OPERATING LLC
**Well Name:** POKER LAKE UNIT 15-34 BD
**Well Number:** 305H
**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:** POKER LAKE UNIT 15-34 BD

**Well Location:** T25S / R30E / SEC 15 / SWNW / 32.132701 / -103.876233

**County or Parish/State:** EDDY / NM

**Well Number:** 305H

**Type of Well:** CONVENTIONAL GAS WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC061616A

**Unit or CA Name:** POKER LAKE UNIT

**Unit or CA Number:** NMNM71016X

**US Well Number:**

**Operator:** XTO PERMIAN OPERATING LLC

## Notice of Intent

**Sundry ID:** 2885709

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 12/11/2025

**Time Sundry Submitted:** 06:14

**Date proposed operation will begin:** 12/18/2025

**Procedure Description:** XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes include KOP, FTP, LTP, BHL, Proposed Total Depth, Pool Name, Dedicated Acres, Formation TVD, Casing Design, Cement Program, Mud Circulation System. FROM: TO: KOP: 616' FNL & 359' FWL OF SECTION 15-T25S-R30E 100' FNL & 760' FWL OF SECTION 15-T25S-R30E FTP: 100' FSL & 360' FWL OF SECTION 10-T25S-R30E 100' FNL & 760' FWL OF SECTION 15-T25S-R30E LTP: 2537' FSL & 360' FWL OF SECTION 34-T24S-R30E 2440' FNL & 607' FWL OF SECTION 27-T25S-R30E BHL: 2627' FSL & 360' FWL OF SECTION 34-T24S-R30E 2488' FNL & 603' FWL OF SECTION 27-T25S-R30E The proposed total depth is changing from 24808' MD/ 11047' TVD to 23325' MD/10347' TVD Pool Name Changing from PURPLE SAGE; WOLFCAMP (GAS) to WILDCAT G-06 S253002O; BONE SPRING & WILDCAT G-015 S263001O; BONE SPRING & CORRAL CANYON; BONE SPRING, SOUTH. The Dedicated Acreage is changing from 801.20 to 640 & 320 & 640. There will be no changes required to the facilities/surface usage that was approved along with the APD. See attached drilling program for the updated casing design, cement program and the mud circulation system.

## NOI Attachments

**Procedure Description**

Poker_Lake_Unit_15_34_BD_305H___Sundry_Change_Attachments_20251211181411.pdf

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| | | |
|---|---|---|
| **Well Name:** POKER LAKE UNIT 15-34 BD | **Well Location:** T25S / R30E / SEC 15 / SWNW / 32.132701 / -103.876233 | **County or Parish/State:** EDDY / NM |
| **Well Number:** 305H | **Type of Well:** CONVENTIONAL GAS WELL | **Allottee or Tribe Name:** |
| **Lease Number:** NMLC061616A | **Unit or CA Name:** POKER LAKE UNIT | **Unit or CA Number:** NMNM71016X |
| **US Well Number:** | **Operator:** XTO PERMIAN OPERATING LLC | |

## Conditions of Approval

**Additional**

PLU_15_34_BD_305H_COA_20260128065841.pdf

## 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:** VISHAL RAJAN

**Signed on:** DEC 11, 2025 06:14 PM

**Name:** XTO PERMIAN OPERATING LLC

**Title:** Regulatory Clerk

**Street Address:** 6401 HOLIDAY HILL ROAD BLDG 5

**City:** MIDLAND **State:** TX

**Phone:** (432) 620-6704

**Email address:** VISHAL.RAJAN@EXXONMOBIL.COM

## Field

**Representative Name:**

**Street Address:**

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

**Phone:**

**Email address:**

## BLM Point of Contact

**BLM POC Name:** CHRISTOPHER WALLS

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234

**BLM POC Email Address:** CWALLS@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 01/28/2026

**Signature:** Chris Walls

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Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

**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. NMLC061616A

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X

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

8. Well Name and No. POKER LAKE UNIT 15-34 BD/305H

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 15/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 make the following changes to the approved APD. Changes include KOP, FTP, LTP, BHL, Proposed Total Depth, Pool Name, Dedicated Acres, Formation TVD, Casing Design, Cement Program, Mud Circulation System.

FROM: TO:
KOP: 616' FNL & 359' FWL OF SECTION 15-T25S-R30E 100' FNL & 760' FWL OF SECTION 15-T25S-R30E
FTP: 100' FSL & 360' FWL OF SECTION 10-T25S-R30E 100' FNL & 760' FWL OF SECTION 15-T25S-R30E
LTP: 2537' FSL & 360' FWL OF SECTION 34-T24S-R30E 2440' FNL & 607' FWL OF SECTION 27-T25S-R30E
BHL: 2627' FSL & 360' FWL OF SECTION 34-T24S-R30E 2488' FNL & 603' FWL OF SECTION 27-T25S-R30E

The proposed total depth is changing from 24808 MD/ 11047 TVD to 23325 MD/10347 TVD

Pool Name Changing from PURPLE SAGE; WOLFCAMP (GAS) to WILDCAT G-06 S253002O; BONE SPRING & WILDCAT G-015

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* VISHAL RAJAN / Ph: (432) 620-6704

Title Regulatory Clerk

Signature (Electronic Submission)

Date 12/11/2025

**THE SPACE FOR FEDERAL OR STATE OFICE USE**

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 01/28/2026

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

### Additional Remarks

S263001O; BONE SPRING & CORRAL CANYON; BONE SPRING, SOUTH.

The Dedicated Acreage is changing from 801.20 to 640 & 320 & 640.

There will be no changes required to the facilities/surface usage that was approved along with the APD.

See attached drilling program for the updated casing design, cement program and the mud circulation system.

### Location of Well

0. SHL: SWNW / 1815 FNL / 420 FWL / TWSP: 25S / RANGE: 30E / SECTION: 15 / LAT: 32.132701 / LONG: -103.876233 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 360 FWL / TWSP: 25S / RANGE: 30E / SECTION: 10 / LAT: 32.137964 / LONG: -103.876425 ( TVD: 11047 feet, MD: 11700 feet )

BHL: NWSW / 2627 FSL / 360 FWL / TWSP: 24S / RANGE: 30E / SECTION: 34 / LAT: 32.174236 / LONG: -103.876346 ( TVD: 11047 feet, MD: 24808 feet )

CONFIDENTIAL

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | XTO |
| **WELL NAME & NO.:** | PLU 15-34 BD 305H |
| **LOCATION:** | 15-25S-30E-NMP |
| **COUNTY:** | Eddy County, New Mexico |

*Changes approved through engineering via **Sundry 2885709** on 1/28/2026. Any previous COAs not addressed within the updated COAs still apply.*

**Create COAs**

| $H_2S$ | Cave / Karst | Waste Prevention Rule |
|---|---|---|
| Not Reported | Low | Waste Minimization Plan |

| Potash | R-111-Q Design |
|---|---|
| None | |

| Wellhead | Casing | Cementing |
|---|---|---|
| Multibowl | 3-String Well<br>☐ Liner ☐ Fluid ☐ Casing Clearance | ☐ DV Tool ☑ Bradenhead ☐ Echometer<br>☑ Offline Cement ☐ Open Annulus ☐ Pilot Hole |
| ☑ Flex Hose<br>☑ Break Testing | | |

**Special Requirements**

☐ Capitan Reef ☐ Water Disposal ☐ COM ☑ Unit

## A. HYDROGEN SULFIDE

Hydrogen Sulfide ($H_2S$) monitors shall be installed prior to drilling out the surface shoe. If $H_2S$ 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 **1206** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface

log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch 1st intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

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

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

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

   - Operator shall run a CBL from TD of the **Surface** casing to tieback requirements after the second stage BH to verify TOC.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.**Excess calculates to 24%. Additional cement maybe required.**

## C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

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

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

**D. SPECIAL REQUIREMENT(S)**

**Unit Wells:**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation but will replace the unit number with the participating area number when the sign is replaced.

**Commercial Well Determination:**

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

**Offline Cementing**

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

# GENERAL REQUIREMENTS

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

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

**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 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 swell.
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 always be operational 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 doghouse 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 & CEMENT

1. The current acceptable methods of cement verification are as follows:
    i. Observing cement circulated to surface,
    ii. Cement Bond Log (CBL),
    iii. Temperature log within 8-10 hours after completing the cement job,
    iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)

2. 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.
3. 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.
4. 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.
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Well specific cement details must be onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. If hard band 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.
9. 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. (This 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 -our 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 because 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 1/28/2026**
zstevens@blm.gov / 575-234-5998

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

| Submittal Type: | ☐ Initial Submittal |
|---|---|
| | ☒ Amended Report |
| | ☐ As Drilled |

**WELL LOCATION INFORMATION**

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-015-58125 | 97913 | WILDCAT G-06 S253002O; BONE SPRING |

| Property Code | Property Name | Well Number |
|---|---|---|
| 338853 | POKER LAKE UNIT 15-34 BD | 305H |

| OGRID No. | Operator Name | Ground Level Elevation |
|---|---|---|
| 373075 | XTO PERMIAN OPERATING, LLC. | 3,295' |

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 |
|---|---|---|---|---|---|---|---|---|---|
| E | 15 | 25S | 30E | | 1,815 FNL | 420 FWL | 32.132701 | -103.876233 | EDDY |

**Bottom Hole Location**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| E | 27 | 25S | 30E | | 2,488 FNL | 603 FWL | 32.101581 | -103.875619 | EDDY |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| 640.00 | INFILL | | Y (XTO) | U |

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 |
|---|---|---|---|---|---|---|---|---|---|
| D | 15 | 25S | 30E | | 100 FNL | 760 FWL | 32.137427 | -103.875135 | EDDY |

**First Take Point (FTP)**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| D | 15 | 25S | 30E | | 100 FNL | 760 FWL | 32.137427 | -103.875135 | EDDY |

**Last Take Point (LTP)**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| E | 27 | 25S | 30E | | 2,440 FNL | 607 FWL | 32.101715 | -103.875608 | EDDY |

| Unitized Area or Area of Interest | Spacing Unit Type : ☒ Horizontal ☐ Vertical | Ground Elevation |
|---|---|---|
| NMNM-105422429 | | 3,295' |

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.*

Vishal Rajan — 12/10/2025
Signature — Date

Vishal Rajan
Printed Name

vishal.rajan@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 — 11/19/2025
Certificate Number — Date of Survey

KT 618.013003.34-21

*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.*

I:\618.013 XTO Energy – NM\003 Poker Lake Unit\.34 – PLU 15 Brushy Draw\Wells\–21 – 305H\DWG\15–34 BD 305H C–102.dwg

*ACREAGE DEDICATION PLATS*

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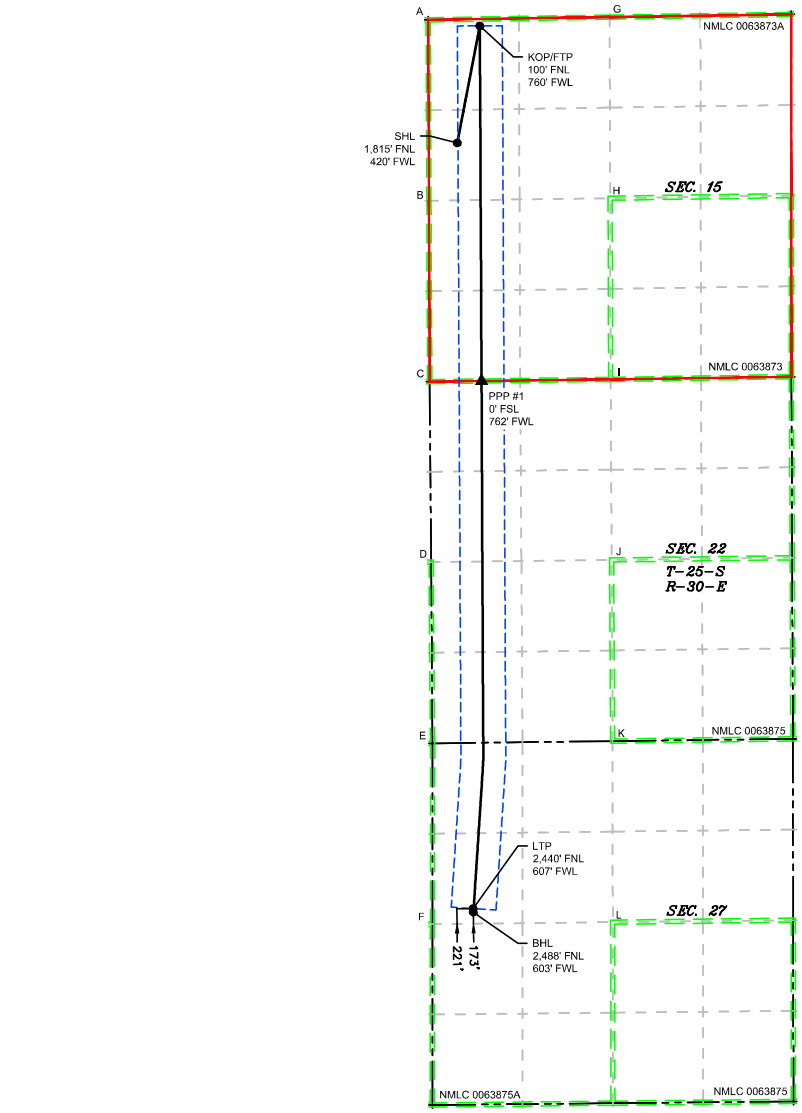


LEGEND

| | | | |
|---|---|---|---|
| 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 | 682,829.4 | 412,312.7 | 32.132701 | -103.876233 | 641,644.7 | 412,254.1 | 32.132576 | -103.875750 |
| KOP/FTP | 683,161.9 | 414,033.2 | 32.137427 | -103.875135 | 641,977.2 | 413,974.6 | 32.137302 | -103.874652 |
| LTP | 683,070.7 | 401,041.2 | 32.101715 | -103.875608 | 641,885.5 | 400,983.0 | 32.101590 | -103.875126 |
| BHL | 683,067.5 | 400,992.7 | 32.101581 | -103.875619 | 641,882.3 | 400,934.5 | 32.101456 | -103.875137 |
| PPP1 | 683,186.7 | 408,807.5 | 32.123062 | -103.875127 | 642,001.8 | 408,749.0 | 32.122937 | -103.874644 |

| CORNER COORDINATE TABLE | | | | |
|---|---|---|---|---|
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| B | 682,412.8 | 411,459.6 | 641,228.0 | 411,401.1 |
| C | 682,424.4 | 408,798.2 | 641,239.5 | 408,739.8 |
| D | 682,445.5 | 406,142.3 | 641,260.5 | 406,083.9 |
| E | 682,465.3 | 403,473.7 | 641,280.2 | 403,415.4 |
| F | 682,464.0 | 400,813.6 | 641,278.8 | 400,755.4 |
| G | 685,071.9 | 414,162.6 | 643,887.3 | 414,104.3 |
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| I | 685,085.8 | 408,830.4 | 643,900.8 | 408,772.2 |
| J | 685,100.9 | 406,174.0 | 643,915.8 | 406,115.9 |
| K | 685,116.0 | 403,507.4 | 643,930.8 | 403,449.4 |
| L | 685,117.3 | 400,842.9 | 643,932.0 | 400,784.9 |

\618.013 XTO Energy – NM\003 Poker Lake Unit\34 – PLU 15 Brushy Draw\Wells\–21 – 305H\DWG\15–34 BD 305H C–102.dwg

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

| Submittal Type: | ☐ Initial Submittal |
|---|---|
| | ☒ Amended Report |
| | ☐ As Drilled |

**WELL LOCATION INFORMATION**

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-015-58125 | 13354 | CORRAL CANYON; BONE SPRING, SOUTH |

| Property Code | Property Name | Well Number |
|---|---|---|
| 338853 | POKER LAKE UNIT 15-34 BD | 305H |

| OGRID No. | Operator Name | Ground Level Elevation |
|---|---|---|
| 373075 | XTO PERMIAN OPERATING, LLC. | 3,295' |

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 |
|---|---|---|---|---|---|---|---|---|---|
| E | 15 | 25S | 30E | | 1,815 FNL | 420 FWL | 32.132701 | -103.876233 | EDDY |

**Bottom Hole Location**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| E | 27 | 25S | 30E | | 2,488 FNL | 603 FWL | 32.101581 | -103.875619 | EDDY |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| 640.00 | INFILL | | Y | U |

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 |
|---|---|---|---|---|---|---|---|---|---|
| D | 15 | 25S | 30E | | 100 FNL | 760 FWL | 32.137427 | -103.875135 | EDDY |

**First Take Point (FTP)**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| D | 15 | 25S | 30E | | 100 FNL | 760 FWL | 32.137427 | -103.875135 | EDDY |

**Last Take Point (LTP)**

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| E | 27 | 25S | 30E | | 2,440 FNL | 607 FWL | 32.101715 | -103.875608 | EDDY |

| Unitized Area or Area of Interest | Spacing Unit Type : ☒ Horizontal ☐ Vertical | Ground Elevation |
|---|---|---|
| NMNM-105422429 | | 3,295' |

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.*

Vishal Rajan — 12/10/2025
Signature — Date

Vishal Rajan
Printed Name

vishal.rajan@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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Signature and Seal of Professional Surveyor

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Certificate Number — Date of Survey

KT 618.013003.34-21

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Received by OCD: 1/30/2026 4:36:40 PM


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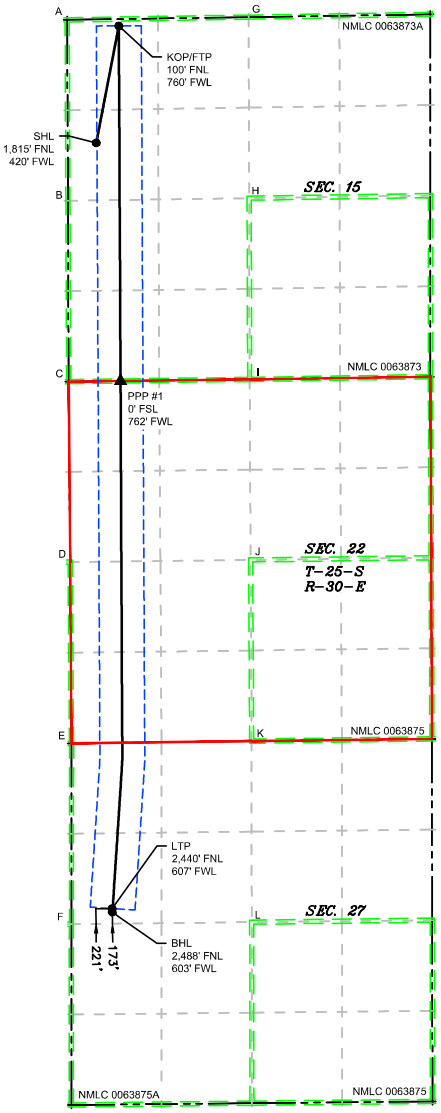


LEGEND

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

| WELL COORDINATE TABLE | | | | | | | | |
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|---|---|---|

| Submittal Type: | |
|---|---|
| | ☐ Initial Submittal |
| | ☒ Amended Report |
| | ☐ As Drilled |

**WELL LOCATION INFORMATION**

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-015-58125 | 97814 | WILDCAT G-015 S263001O; BONE SPRING |

| Property Code | Property Name | Well Number |
|---|---|---|
| 338853 | POKER LAKE UNIT 15-34 BD | 305H |

| OGRID No. | Operator Name | Ground Level Elevation |
|---|---|---|
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Order Numbers.

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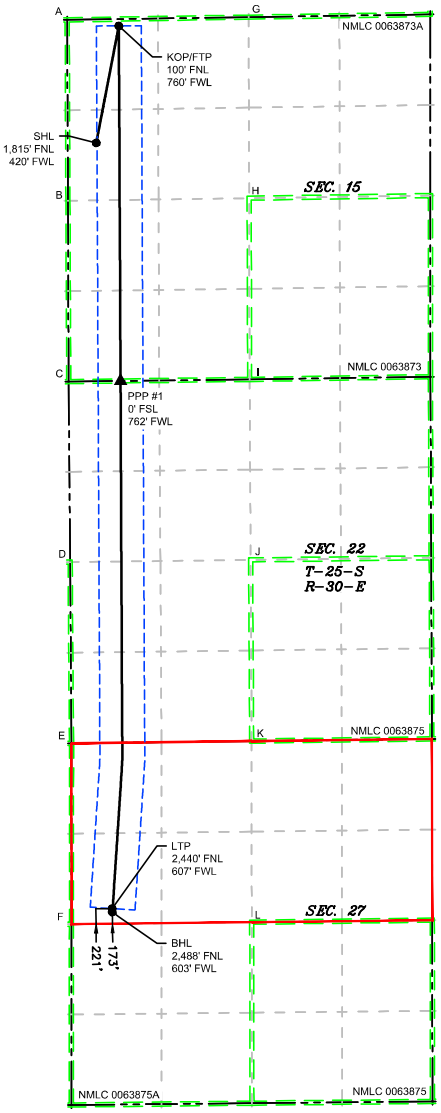


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TOWNSHIP LINE
DEDICATED ACREAGE
330' BUFFER
MINERAL LEASE
WELL BORE
PPP
WELL

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| BHL | 683,067.5 | 400,992.7 | 32.101581 | -103.875619 | 641,882.3 | 400,934.5 | 32.101456 | -103.875137 |
| PPP1 | 683,186.7 | 408,807.5 | 32.123062 | -103.875127 | 642,001.8 | 408,749.0 | 32.122937 | -103.874644 |

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| D | 682,445.5 | 406,142.3 | 641,260.5 | 406,083.9 |
| E | 682,465.3 | 403,473.7 | 641,280.2 | 403,415.4 |
| F | 682,464.0 | 400,813.6 | 641,278.8 | 400,755.4 |
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| I | 685,085.8 | 408,830.4 | 643,900.8 | 408,772.2 |
| J | 685,100.9 | 406,174.0 | 643,915.8 | 406,115.9 |
| K | 685,116.0 | 403,507.4 | 643,930.8 | 403,449.4 |
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DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

ExxonMobil
Poker Lake Unit 15-34 BD 305H
Projected TD: 23325' MD / 10347' TVD
SHL: 1815' FNL & 420' FWL , Section 15, T25S, R30E
BHL: 2488' FNL & 603' FWL , Section 27, T25S, 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 | 1026' | Water |
| Salado | 1231' | Water |
| Base of Salt | 3665' | Water |
| Delaware | 3893' | Water |
| Cherry Canyon | 4825' | Water/Oil/Gas |
| Lower Brushy Canyon | 6386' | Water/Oil/Gas |
| Basal Brushy Canyon | 7403' | Water/Oil/Gas |
| Bone Spring Lm. | 7701' | Water/Oil/Gas |
| Avalon | 7824' | Water/Oil/Gas |
| Lower Avalon | 8233' | Water/Oil/Gas |
| 1st Bone Spring Lime | 8408' | Water/Oil/Gas |
| 1st Bone Spring Sand | 8630' | Water/Oil/Gas |
| 2nd Bone Spring Shale | 8927' | Water/Oil/Gas |
| 2nd Bone Spring Lime | 9113' | Water/Oil/Gas |
| 2nd Bone Spring Sand (A Prime Sand) | 9332' | Water/Oil/Gas |
| 2nd Bone Spring Sand (B Sand) | 9686' | Water/Oil/Gas |
| 3rd Bone Spring Lime | 9868' | Water/Oil/Gas |
| Harkey | 10168' | Water/Oil/Gas |
| Mid 3rd Bone Shale Lime | 10342' | Water/Oil/Gas |
| 3rd Shale Landing | 10347' | Water/Oil/Gas |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

**Section 2 Summary:**

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

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 1206' 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' – 1206' | 1206' | 9-5/8" | 40 | J55 | BTC | New | 10.67 | 9.84 | 4.92 |
| 8.75" | 0' – 4000' | 3909' | 7-5/8" | 29.7 | P110-ICY | Tenaris Wedge 511 | New | 6.02 | 8.69 | 3.20 |
| 8.75" | 4000' – 9721' | 9481' | 7-5/8" | 29.7 | L80-IC | Tenaris Wedge 511 | New | 2.58 | 4.97 | 2.29 |
| 6.75" | 0' – 9621' | 9381' | 5-1/2" | 20 | P110-ICY | Tenaris Wedge 441 | New | 1.18 | 3.03 | 2.77 |
| 6.75" | 9621' – 23325' | 10347' | 5-1/2" | 20 | P110-ICY | Tenaris Wedge 441 | New | 1.18 | 2.74 | 2.77 |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Section 3 Summary:**

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 9871' MD / 9631' 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 | 269 | 12.4 | 2.11 | 0 | 1,206 | 100% | Surface 1 Class C Lead Cement |
| Surface 1 | Tail | 141 | 14.8 | 1.33 | 906 | 1,206 | 100% | Surface 1 Class C Tail Cement |
| Intermediate 1 | Lead | | | | | | | |
| Intermediate 1 | Tail | 312 | 14.8 | 1.45 | 6386 | 9,721 | 35% | Intermediate 1 Class C Tail Cement |
| Production 1 | Lead | | | | | | | |
| Production 1 | Tail | 994 | 13.2 | 1.44 | 9221 | 23,325 | 25% | Production 1 Class C Tail Cement |
| | | | | | | | | |
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| Breadenhead Cementing | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Casing** | **Slurry Type** | **No. Sacks** | **Density (ppg)** | **Yield (ft3/sack)** | **Cemented Interval** | **Excess (%)** | **Slurry Description** |
| Intermediate 1 | Bradenhead Squeeze | 597 | 14.8 | 1.45 | 0 - 6386' | 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.

No break testing will be done if intermediate casing point penetrates the Wolfcamp

**Requested Variances**

4A) Offline Cementing Variance
XOM requests the option to perform offline cement and bradenhead jobs (if needed) SURFACE, INTERMEDIATE, and PRODUCTION casing strings where batch drilling is approved. 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) Break Test Variance
A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) 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.

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' – 1206' | 12.25" | FW/Native | 8.3 - 8.7 | 35-40 | NC | Fresh Water or Native Water |
| 1206' – 9721' | 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. |
| 9721' – 23325' | 6.75" | OBM | 9 - 10.7 | 50-60 | NC - 20 | OBM or Cut Brine depending on Well Conditions |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

**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:**

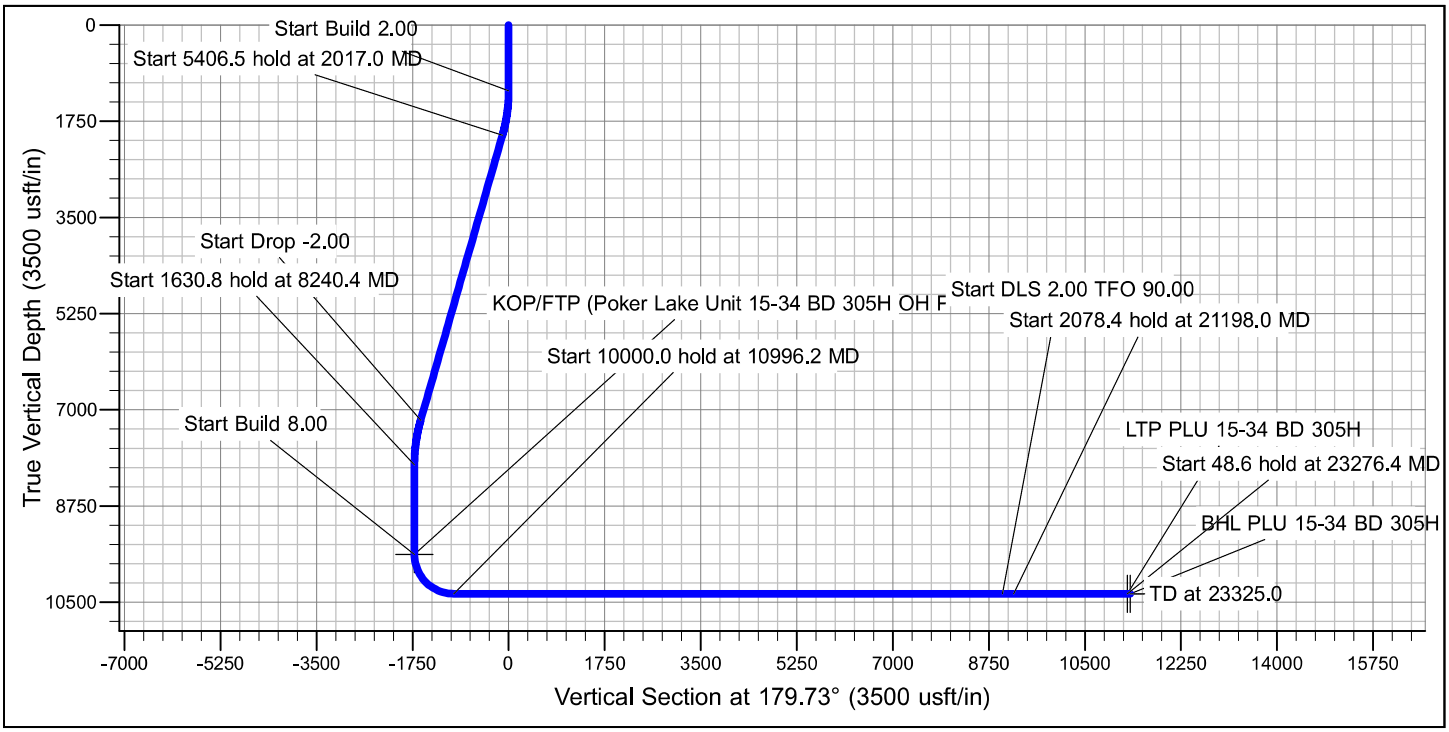
The estimated bottom hole temperature of 168F to 188F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

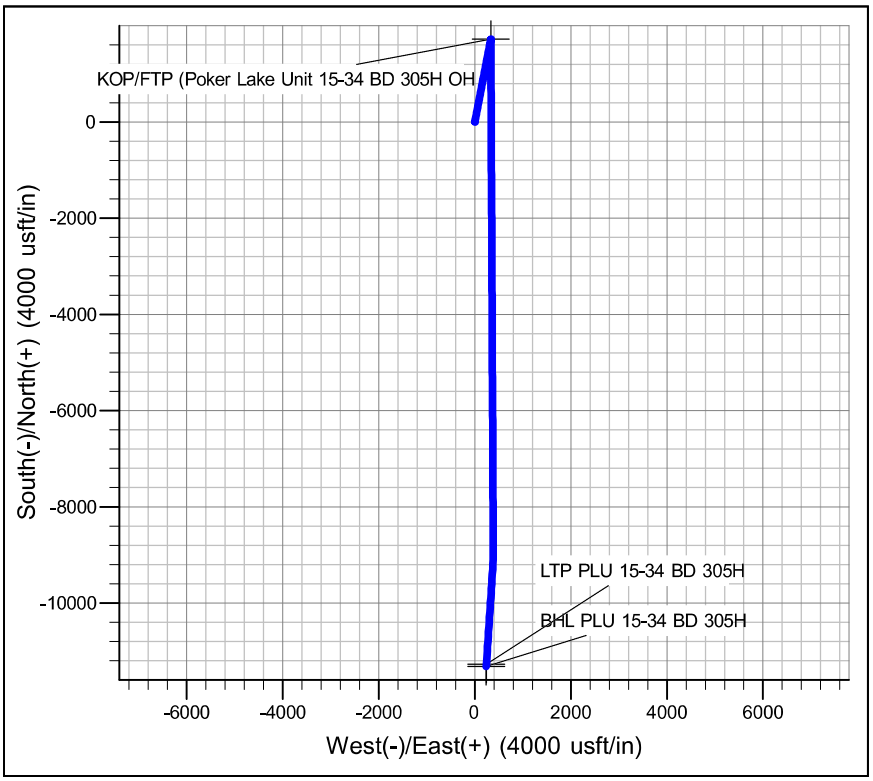
**10. Anticipated Starting Date and Duration of Operations**

**Section 10 Summary:**

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

Site: Poker Lake Unit 15-34 BD - South Pad - 32' RKB
Well: Poker Lake Unit 15-34 BD 305H
Wellbore: OH
Design: Plan 0




FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---|---|---|
| 1026.0 | 1026.0 | Rustler |
| 1231.0 | 1231.0 | Salado |
| 3665.0 | 3745.9 | Base of Salt |
| 3893.0 | 3983.4 | Delaware |
| 4825.0 | 4954.7 | Cherry Canyon |
| 6386.0 | 6581.4 | Lower Brushy Canyon |
| 7403.0 | 7639.0 | Basal Brushy Canyon |
| 7701.0 | 7940.9 | Bone Spring Lm. |
| 7824.0 | 8064.3 | Avalon |
| 8233.0 | 8473.4 | Lower Avalon |
| 8408.0 | 8648.4 | 1st Bone Spring Lime |
| 8630.0 | 8870.4 | 1st Bone Spring Sand |
| 8927.0 | 9167.4 | 2nd Bone Spring Shale |
| 9113.0 | 9353.4 | 2nd Bone Spring Lime |
| 9332.0 | 9572.4 | 2nd Bone Spring Sand (A Prime Sand) |
| 9686.0 | 9926.5 | 2nd Bone Spring Sand (B Sand) |
| 9868.0 | 10113.0 | 3rd Bone Spring Lime |
| 10168.0 | 10478.7 | Harkey |
| 10342.0 | 10911.6 | Mid 3rd Bone Shale Lime |
| 10347.0 | 10996.2 | 3rd Shale Landing |

# ROC

**Long Lead - PLU 15BD**
**Poker Lake Unit 15-34 BD - South Pad - 32' RKB**
**Poker Lake Unit 15-34 BD 305H**

**OH**

**Plan: Plan 0**

# Standard Planning Report

**27 October, 2025**

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 0 | | |

| **Project** | Long Lead - PLU 15BD | | |
|---|---|---|---|
| **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** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 412,254.14 usft | **Latitude:** | 32° 7' 57.274 N |
| **From:** | Map | **Easting:** | 641,644.72 usft | **Longitude:** | 103° 52' 32.698 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | | |

| **Well** | Poker Lake Unit 15-34 BD 305H | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 412,254.14 usft | **Latitude:** | 32° 7' 57.274 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 641,644.72 usft | **Longitude:** | 103° 52' 32.698 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 3,295.0 usft |
| **Grid Convergence:** | | 0.24 ° | | | | |

| **Wellbore** | OH | | | | |
|---|---|---|---|---|---|
| **Magnetics** | **Model Name** | **Sample Date** | **Declination (°)** | **Dip Angle (°)** | **Field Strength (nT)** |
| | IGRF2020 | 8/8/2025 | 6.19 | 59.63 | 46,978.64943628 |

| **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 | 179.73 | |

**Plan Survey Tool Program** **Date** 10/23/2025

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.0 | 23,325.0 | Plan 0 (OH) | XOM_R2OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St | |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **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 | |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,017.0 | 16.34 | 10.94 | 2,005.9 | 113.6 | 22.0 | 2.00 | 2.00 | 0.00 | 10.94 | |
| 7,423.5 | 16.34 | 10.94 | 7,194.1 | 1,606.9 | 310.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,240.4 | 0.00 | 0.00 | 8,000.0 | 1,720.5 | 332.5 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 9,871.2 | 0.00 | 0.00 | 9,630.8 | 1,720.5 | 332.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,996.2 | 90.00 | 179.73 | 10,347.0 | 1,004.3 | 335.9 | 8.00 | 8.00 | 0.00 | 179.73 | |
| 20,996.2 | 90.00 | 179.73 | 10,347.0 | -8,995.5 | 383.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 21,198.0 | 90.00 | 183.76 | 10,347.0 | -9,197.2 | 377.2 | 2.00 | 0.00 | 2.00 | 90.00 | LTP PLU 15-34 BD 3( |
| 23,276.4 | 90.00 | 183.76 | 10,347.0 | -11,271.1 | 240.8 | 0.00 | 0.00 | 0.00 | 0.00 | LTP PLU 15-34 BD 3( |
| 23,325.0 | 90.00 | 183.76 | 10,347.0 | -11,319.6 | 237.6 | 0.00 | 0.00 | 0.00 | 0.00 | BHL PLU 15-34 BD 3( |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 2.00 | 10.94 | 1,300.0 | 1.7 | 0.3 | -1.7 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 4.00 | 10.94 | 1,399.8 | 6.9 | 1.3 | -6.8 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 6.00 | 10.94 | 1,499.5 | 15.4 | 3.0 | -15.4 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 8.00 | 10.94 | 1,598.7 | 27.4 | 5.3 | -27.3 | 2.00 | 2.00 | 0.00 |
| 1,700.0 | 10.00 | 10.94 | 1,697.5 | 42.7 | 8.3 | -42.7 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 12.00 | 10.94 | 1,795.6 | 61.5 | 11.9 | -61.4 | 2.00 | 2.00 | 0.00 |
| 1,900.0 | 14.00 | 10.94 | 1,893.1 | 83.6 | 16.1 | -83.5 | 2.00 | 2.00 | 0.00 |
| 2,000.0 | 16.00 | 10.94 | 1,989.6 | 109.0 | 21.1 | -108.9 | 2.00 | 2.00 | 0.00 |
| 2,017.0 | 16.34 | 10.94 | 2,005.9 | 113.6 | 22.0 | -113.5 | 2.00 | 2.00 | 0.00 |
| 2,100.0 | 16.34 | 10.94 | 2,085.6 | 136.5 | 26.4 | -136.4 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 16.34 | 10.94 | 2,181.6 | 164.2 | 31.7 | -164.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 16.34 | 10.94 | 2,277.5 | 191.8 | 37.1 | -191.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 16.34 | 10.94 | 2,373.5 | 219.4 | 42.4 | -219.2 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 16.34 | 10.94 | 2,469.5 | 247.0 | 47.7 | -246.8 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 16.34 | 10.94 | 2,565.4 | 274.6 | 53.1 | -274.4 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 16.34 | 10.94 | 2,661.4 | 302.3 | 58.4 | -302.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 16.34 | 10.94 | 2,757.3 | 329.9 | 63.7 | -329.6 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 16.34 | 10.94 | 2,853.3 | 357.5 | 69.1 | -357.2 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 16.34 | 10.94 | 2,949.3 | 385.1 | 74.4 | -384.8 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 16.34 | 10.94 | 3,045.2 | 412.7 | 79.8 | -412.4 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 16.34 | 10.94 | 3,141.2 | 440.4 | 85.1 | -440.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 16.34 | 10.94 | 3,237.2 | 468.0 | 90.4 | -467.6 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 16.34 | 10.94 | 3,333.1 | 495.6 | 95.8 | -495.1 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 16.34 | 10.94 | 3,429.1 | 523.2 | 101.1 | -522.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 16.34 | 10.94 | 3,525.0 | 550.9 | 106.4 | -550.3 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 16.34 | 10.94 | 3,621.0 | 578.5 | 111.8 | -577.9 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 16.34 | 10.94 | 3,717.0 | 606.1 | 117.1 | -605.5 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 16.34 | 10.94 | 3,812.9 | 633.7 | 122.5 | -633.1 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 16.34 | 10.94 | 3,908.9 | 661.3 | 127.8 | -660.7 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 16.34 | 10.94 | 4,004.8 | 689.0 | 133.1 | -688.3 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 16.34 | 10.94 | 4,100.8 | 716.6 | 138.5 | -715.9 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 16.34 | 10.94 | 4,196.8 | 744.2 | 143.8 | -743.5 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 16.34 | 10.94 | 4,292.7 | 771.8 | 149.1 | -771.1 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 16.34 | 10.94 | 4,388.7 | 799.4 | 154.5 | -798.7 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 16.34 | 10.94 | 4,484.7 | 827.1 | 159.8 | -826.3 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 16.34 | 10.94 | 4,580.6 | 854.7 | 165.2 | -853.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 16.34 | 10.94 | 4,676.6 | 882.3 | 170.5 | -881.5 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 16.34 | 10.94 | 4,772.5 | 909.9 | 175.8 | -909.1 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 16.34 | 10.94 | 4,868.5 | 937.5 | 181.2 | -936.7 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 16.34 | 10.94 | 4,964.5 | 965.2 | 186.5 | -964.3 | 0.00 | 0.00 | 0.00 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 16.34 | 10.94 | 5,060.4 | 992.8 | 191.8 | -991.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 16.34 | 10.94 | 5,156.4 | 1,020.4 | 197.2 | -1,019.5 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 16.34 | 10.94 | 5,252.3 | 1,048.0 | 202.5 | -1,047.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 16.34 | 10.94 | 5,348.3 | 1,075.7 | 207.9 | -1,074.7 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 16.34 | 10.94 | 5,444.3 | 1,103.3 | 213.2 | -1,102.3 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 16.34 | 10.94 | 5,540.2 | 1,130.9 | 218.5 | -1,129.8 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 16.34 | 10.94 | 5,636.2 | 1,158.5 | 223.9 | -1,157.4 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 16.34 | 10.94 | 5,732.1 | 1,186.1 | 229.2 | -1,185.0 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 16.34 | 10.94 | 5,828.1 | 1,213.8 | 234.6 | -1,212.6 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 16.34 | 10.94 | 5,924.1 | 1,241.4 | 239.9 | -1,240.2 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 16.34 | 10.94 | 6,020.0 | 1,269.0 | 245.2 | -1,267.8 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 16.34 | 10.94 | 6,116.0 | 1,296.6 | 250.6 | -1,295.4 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 16.34 | 10.94 | 6,212.0 | 1,324.2 | 255.9 | -1,323.0 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 16.34 | 10.94 | 6,307.9 | 1,351.9 | 261.2 | -1,350.6 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 16.34 | 10.94 | 6,403.9 | 1,379.5 | 266.6 | -1,378.2 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 16.34 | 10.94 | 6,499.8 | 1,407.1 | 271.9 | -1,405.8 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 16.34 | 10.94 | 6,595.8 | 1,434.7 | 277.3 | -1,433.4 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 16.34 | 10.94 | 6,691.8 | 1,462.4 | 282.6 | -1,461.0 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 16.34 | 10.94 | 6,787.7 | 1,490.0 | 287.9 | -1,488.6 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 16.34 | 10.94 | 6,883.7 | 1,517.6 | 293.3 | -1,516.2 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 16.34 | 10.94 | 6,979.6 | 1,545.2 | 298.6 | -1,543.8 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 16.34 | 10.94 | 7,075.6 | 1,572.8 | 303.9 | -1,571.4 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 16.34 | 10.94 | 7,171.6 | 1,600.5 | 309.3 | -1,599.0 | 0.00 | 0.00 | 0.00 |
| 7,423.5 | 16.34 | 10.94 | 7,194.1 | 1,606.9 | 310.5 | -1,605.4 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 14.81 | 10.94 | 7,267.8 | 1,627.1 | 314.4 | -1,625.6 | 2.00 | -2.00 | 0.00 |
| 7,600.0 | 12.81 | 10.94 | 7,364.9 | 1,650.5 | 319.0 | -1,649.0 | 2.00 | -2.00 | 0.00 |
| 7,700.0 | 10.81 | 10.94 | 7,462.8 | 1,670.6 | 322.8 | -1,669.1 | 2.00 | -2.00 | 0.00 |
| 7,800.0 | 8.81 | 10.94 | 7,561.3 | 1,687.4 | 326.1 | -1,685.8 | 2.00 | -2.00 | 0.00 |
| 7,900.0 | 6.81 | 10.94 | 7,660.4 | 1,700.7 | 328.6 | -1,699.1 | 2.00 | -2.00 | 0.00 |
| 8,000.0 | 4.81 | 10.94 | 7,759.9 | 1,710.6 | 330.6 | -1,709.0 | 2.00 | -2.00 | 0.00 |
| 8,100.0 | 2.81 | 10.94 | 7,859.7 | 1,717.2 | 331.8 | -1,715.6 | 2.00 | -2.00 | 0.00 |
| 8,200.0 | 0.81 | 10.94 | 7,959.6 | 1,720.3 | 332.4 | -1,718.7 | 2.00 | -2.00 | 0.00 |
| 8,240.4 | 0.00 | 0.00 | 8,000.0 | 1,720.5 | 332.5 | -1,718.9 | 2.00 | -2.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,059.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,159.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,259.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,359.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,459.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,559.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,659.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,759.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 8,859.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 8,959.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,059.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 0.00 | 0.00 | 9,159.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 0.00 | 0.00 | 9,259.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 0.00 | 0.00 | 9,359.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 0.00 | 0.00 | 9,459.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 0.00 | 0.00 | 9,559.6 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,871.2 | 0.00 | 0.00 | 9,630.8 | 1,720.5 | 332.5 | -1,718.9 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 2.30 | 179.73 | 9,659.6 | 1,720.0 | 332.5 | -1,718.4 | 8.00 | 8.00 | 0.00 |
| 10,000.0 | 10.30 | 179.73 | 9,758.9 | 1,709.0 | 332.5 | -1,707.4 | 8.00 | 8.00 | 0.00 |
| 10,100.0 | 18.30 | 179.73 | 9,855.7 | 1,684.3 | 332.7 | -1,682.7 | 8.00 | 8.00 | 0.00 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 10,200.0 | 26.30 | 179.73 | 9,948.2 | 1,646.4 | 332.8 | -1,644.8 | 8.00 | 8.00 | 0.00 |
| 10,300.0 | 34.30 | 179.73 | 10,034.4 | 1,596.0 | 333.1 | -1,594.4 | 8.00 | 8.00 | 0.00 |
| 10,400.0 | 42.30 | 179.73 | 10,112.8 | 1,534.0 | 333.4 | -1,532.4 | 8.00 | 8.00 | 0.00 |
| 10,500.0 | 50.30 | 179.73 | 10,181.9 | 1,461.8 | 333.7 | -1,460.2 | 8.00 | 8.00 | 0.00 |
| 10,600.0 | 58.30 | 179.73 | 10,240.2 | 1,380.6 | 334.1 | -1,379.0 | 8.00 | 8.00 | 0.00 |
| 10,700.0 | 66.30 | 179.73 | 10,286.6 | 1,292.2 | 334.5 | -1,290.6 | 8.00 | 8.00 | 0.00 |
| 10,800.0 | 74.30 | 179.73 | 10,320.3 | 1,198.1 | 335.0 | -1,196.5 | 8.00 | 8.00 | 0.00 |
| 10,900.0 | 82.30 | 179.73 | 10,340.5 | 1,100.3 | 335.4 | -1,098.7 | 8.00 | 8.00 | 0.00 |
| 10,996.2 | 90.00 | 179.73 | 10,347.0 | 1,004.3 | 335.9 | -1,002.7 | 8.00 | 8.00 | 0.00 |
| 11,000.0 | 90.00 | 179.73 | 10,347.0 | 1,000.5 | 335.9 | -998.9 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 179.73 | 10,347.0 | 900.5 | 336.4 | -898.9 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 179.73 | 10,347.0 | 800.5 | 336.8 | -798.9 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 179.73 | 10,347.0 | 700.5 | 337.3 | -698.9 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 179.73 | 10,347.0 | 600.6 | 337.8 | -598.9 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 179.73 | 10,347.0 | 500.6 | 338.3 | -498.9 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 179.73 | 10,347.0 | 400.6 | 338.7 | -398.9 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 179.73 | 10,347.0 | 300.6 | 339.2 | -298.9 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 179.73 | 10,347.0 | 200.6 | 339.7 | -198.9 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 179.73 | 10,347.0 | 100.6 | 340.2 | -98.9 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 179.73 | 10,347.0 | 0.6 | 340.6 | 1.1 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 179.73 | 10,347.0 | -99.4 | 341.1 | 101.1 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 179.73 | 10,347.0 | -199.4 | 341.6 | 201.1 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 179.73 | 10,347.0 | -299.4 | 342.1 | 301.1 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 179.73 | 10,347.0 | -399.4 | 342.5 | 401.1 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 179.73 | 10,347.0 | -499.4 | 343.0 | 501.1 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 179.73 | 10,347.0 | -599.4 | 343.5 | 601.1 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 179.73 | 10,347.0 | -699.4 | 344.0 | 701.1 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 179.73 | 10,347.0 | -799.4 | 344.4 | 801.1 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 179.73 | 10,347.0 | -899.4 | 344.9 | 901.1 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 179.73 | 10,347.0 | -999.4 | 345.4 | 1,001.1 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 179.73 | 10,347.0 | -1,099.4 | 345.9 | 1,101.1 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 179.73 | 10,347.0 | -1,199.4 | 346.3 | 1,201.1 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 179.73 | 10,347.0 | -1,299.4 | 346.8 | 1,301.1 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 179.73 | 10,347.0 | -1,399.4 | 347.3 | 1,401.1 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 179.73 | 10,347.0 | -1,499.4 | 347.8 | 1,501.1 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 179.73 | 10,347.0 | -1,599.4 | 348.2 | 1,601.1 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 179.73 | 10,347.0 | -1,699.4 | 348.7 | 1,701.1 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 179.73 | 10,347.0 | -1,799.4 | 349.2 | 1,801.1 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 179.73 | 10,347.0 | -1,899.4 | 349.7 | 1,901.1 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 179.73 | 10,347.0 | -1,999.4 | 350.1 | 2,001.1 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 179.73 | 10,347.0 | -2,099.4 | 350.6 | 2,101.1 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 179.73 | 10,347.0 | -2,199.4 | 351.1 | 2,201.1 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 179.73 | 10,347.0 | -2,299.4 | 351.6 | 2,301.1 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 179.73 | 10,347.0 | -2,399.4 | 352.0 | 2,401.1 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 179.73 | 10,347.0 | -2,499.4 | 352.5 | 2,501.1 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 179.73 | 10,347.0 | -2,599.4 | 353.0 | 2,601.1 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 179.73 | 10,347.0 | -2,699.4 | 353.5 | 2,701.1 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 179.73 | 10,347.0 | -2,799.4 | 353.9 | 2,801.1 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 179.73 | 10,347.0 | -2,899.4 | 354.4 | 2,901.1 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 179.73 | 10,347.0 | -2,999.4 | 354.9 | 3,001.1 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 179.73 | 10,347.0 | -3,099.4 | 355.4 | 3,101.1 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 179.73 | 10,347.0 | -3,199.4 | 355.8 | 3,201.1 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 179.73 | 10,347.0 | -3,299.4 | 356.3 | 3,301.1 | 0.00 | 0.00 | 0.00 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **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 | 179.73 | 10,347.0 | -3,399.4 | 356.8 | 3,401.1 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 179.73 | 10,347.0 | -3,499.4 | 357.3 | 3,501.1 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 179.73 | 10,347.0 | -3,599.4 | 357.7 | 3,601.1 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 179.73 | 10,347.0 | -3,699.4 | 358.2 | 3,701.1 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 179.73 | 10,347.0 | -3,799.4 | 358.7 | 3,801.1 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 179.73 | 10,347.0 | -3,899.4 | 359.2 | 3,901.1 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 179.73 | 10,347.0 | -3,999.4 | 359.6 | 4,001.1 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 179.73 | 10,347.0 | -4,099.4 | 360.1 | 4,101.1 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 179.73 | 10,347.0 | -4,199.4 | 360.6 | 4,201.1 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 179.73 | 10,347.0 | -4,299.4 | 361.1 | 4,301.1 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 179.73 | 10,347.0 | -4,399.4 | 361.5 | 4,401.1 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 179.73 | 10,347.0 | -4,499.4 | 362.0 | 4,501.1 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 179.73 | 10,347.0 | -4,599.4 | 362.5 | 4,601.1 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 179.73 | 10,347.0 | -4,699.4 | 363.0 | 4,701.1 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 179.73 | 10,347.0 | -4,799.4 | 363.4 | 4,801.1 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 179.73 | 10,347.0 | -4,899.4 | 363.9 | 4,901.1 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 179.73 | 10,347.0 | -4,999.4 | 364.4 | 5,001.1 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 179.73 | 10,347.0 | -5,099.4 | 364.9 | 5,101.1 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 179.73 | 10,347.0 | -5,199.4 | 365.3 | 5,201.1 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 179.73 | 10,347.0 | -5,299.4 | 365.8 | 5,301.1 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 179.73 | 10,347.0 | -5,399.4 | 366.3 | 5,401.1 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 179.73 | 10,347.0 | -5,499.4 | 366.8 | 5,501.1 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 179.73 | 10,347.0 | -5,599.4 | 367.2 | 5,601.1 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 179.73 | 10,347.0 | -5,699.4 | 367.7 | 5,701.1 | 0.00 | 0.00 | 0.00 |
| 17,800.0 | 90.00 | 179.73 | 10,347.0 | -5,799.4 | 368.2 | 5,801.1 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 179.73 | 10,347.0 | -5,899.4 | 368.7 | 5,901.1 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 179.73 | 10,347.0 | -5,999.4 | 369.1 | 6,001.1 | 0.00 | 0.00 | 0.00 |
| 18,100.0 | 90.00 | 179.73 | 10,347.0 | -6,099.4 | 369.6 | 6,101.1 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 179.73 | 10,347.0 | -6,199.4 | 370.1 | 6,201.1 | 0.00 | 0.00 | 0.00 |
| 18,300.0 | 90.00 | 179.73 | 10,347.0 | -6,299.4 | 370.6 | 6,301.1 | 0.00 | 0.00 | 0.00 |
| 18,400.0 | 90.00 | 179.73 | 10,347.0 | -6,399.4 | 371.0 | 6,401.1 | 0.00 | 0.00 | 0.00 |
| 18,500.0 | 90.00 | 179.73 | 10,347.0 | -6,499.4 | 371.5 | 6,501.1 | 0.00 | 0.00 | 0.00 |
| 18,600.0 | 90.00 | 179.73 | 10,347.0 | -6,599.4 | 372.0 | 6,601.1 | 0.00 | 0.00 | 0.00 |
| 18,700.0 | 90.00 | 179.73 | 10,347.0 | -6,699.4 | 372.5 | 6,701.1 | 0.00 | 0.00 | 0.00 |
| 18,800.0 | 90.00 | 179.73 | 10,347.0 | -6,799.4 | 372.9 | 6,801.1 | 0.00 | 0.00 | 0.00 |
| 18,900.0 | 90.00 | 179.73 | 10,347.0 | -6,899.4 | 373.4 | 6,901.1 | 0.00 | 0.00 | 0.00 |
| 19,000.0 | 90.00 | 179.73 | 10,347.0 | -6,999.4 | 373.9 | 7,001.1 | 0.00 | 0.00 | 0.00 |
| 19,100.0 | 90.00 | 179.73 | 10,347.0 | -7,099.4 | 374.4 | 7,101.1 | 0.00 | 0.00 | 0.00 |
| 19,200.0 | 90.00 | 179.73 | 10,347.0 | -7,199.4 | 374.8 | 7,201.1 | 0.00 | 0.00 | 0.00 |
| 19,300.0 | 90.00 | 179.73 | 10,347.0 | -7,299.4 | 375.3 | 7,301.1 | 0.00 | 0.00 | 0.00 |
| 19,400.0 | 90.00 | 179.73 | 10,347.0 | -7,399.4 | 375.8 | 7,401.1 | 0.00 | 0.00 | 0.00 |
| 19,500.0 | 90.00 | 179.73 | 10,347.0 | -7,499.4 | 376.2 | 7,501.1 | 0.00 | 0.00 | 0.00 |
| 19,600.0 | 90.00 | 179.73 | 10,347.0 | -7,599.4 | 376.7 | 7,601.1 | 0.00 | 0.00 | 0.00 |
| 19,700.0 | 90.00 | 179.73 | 10,347.0 | -7,699.4 | 377.2 | 7,701.1 | 0.00 | 0.00 | 0.00 |
| 19,800.0 | 90.00 | 179.73 | 10,347.0 | -7,799.4 | 377.7 | 7,801.1 | 0.00 | 0.00 | 0.00 |
| 19,900.0 | 90.00 | 179.73 | 10,347.0 | -7,899.4 | 378.1 | 7,901.1 | 0.00 | 0.00 | 0.00 |
| 20,000.0 | 90.00 | 179.73 | 10,347.0 | -7,999.4 | 378.6 | 8,001.1 | 0.00 | 0.00 | 0.00 |
| 20,100.0 | 90.00 | 179.73 | 10,347.0 | -8,099.4 | 379.1 | 8,101.1 | 0.00 | 0.00 | 0.00 |
| 20,200.0 | 90.00 | 179.73 | 10,347.0 | -8,199.4 | 379.6 | 8,201.1 | 0.00 | 0.00 | 0.00 |
| 20,300.0 | 90.00 | 179.73 | 10,347.0 | -8,299.3 | 380.0 | 8,301.1 | 0.00 | 0.00 | 0.00 |
| 20,400.0 | 90.00 | 179.73 | 10,347.0 | -8,399.3 | 380.5 | 8,401.1 | 0.00 | 0.00 | 0.00 |
| 20,500.0 | 90.00 | 179.73 | 10,347.0 | -8,499.3 | 381.0 | 8,501.1 | 0.00 | 0.00 | 0.00 |
| 20,600.0 | 90.00 | 179.73 | 10,347.0 | -8,599.3 | 381.5 | 8,601.1 | 0.00 | 0.00 | 0.00 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **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 | 179.73 | 10,347.0 | -8,699.3 | 381.9 | 8,701.1 | 0.00 | 0.00 | 0.00 |
| 20,800.0 | 90.00 | 179.73 | 10,347.0 | -8,799.3 | 382.4 | 8,801.1 | 0.00 | 0.00 | 0.00 |
| 20,900.0 | 90.00 | 179.73 | 10,347.0 | -8,899.3 | 382.9 | 8,901.1 | 0.00 | 0.00 | 0.00 |
| 20,996.2 | 90.00 | 179.73 | 10,347.0 | -8,995.5 | 383.4 | 8,997.3 | 0.00 | 0.00 | 0.00 |
| 21,000.0 | 90.00 | 179.80 | 10,347.0 | -8,999.3 | 383.4 | 9,001.1 | 2.00 | 0.00 | 2.00 |
| 21,100.0 | 90.00 | 181.80 | 10,347.0 | -9,099.3 | 382.0 | 9,101.0 | 2.00 | 0.00 | 2.00 |
| 21,198.0 | 90.00 | 183.76 | 10,347.0 | -9,197.2 | 377.2 | 9,198.9 | 2.00 | 0.00 | 2.00 |
| 21,200.0 | 90.00 | 183.76 | 10,347.0 | -9,199.2 | 377.1 | 9,200.9 | 0.00 | 0.00 | 0.00 |
| 21,300.0 | 90.00 | 183.76 | 10,347.0 | -9,299.0 | 370.5 | 9,300.6 | 0.00 | 0.00 | 0.00 |
| 21,400.0 | 90.00 | 183.76 | 10,347.0 | -9,398.8 | 363.9 | 9,400.4 | 0.00 | 0.00 | 0.00 |
| 21,500.0 | 90.00 | 183.76 | 10,347.0 | -9,498.6 | 357.4 | 9,500.1 | 0.00 | 0.00 | 0.00 |
| 21,600.0 | 90.00 | 183.76 | 10,347.0 | -9,598.3 | 350.8 | 9,599.9 | 0.00 | 0.00 | 0.00 |
| 21,700.0 | 90.00 | 183.76 | 10,347.0 | -9,698.1 | 344.3 | 9,699.6 | 0.00 | 0.00 | 0.00 |
| 21,800.0 | 90.00 | 183.76 | 10,347.0 | -9,797.9 | 337.7 | 9,799.4 | 0.00 | 0.00 | 0.00 |
| 21,900.0 | 90.00 | 183.76 | 10,347.0 | -9,897.7 | 331.1 | 9,899.2 | 0.00 | 0.00 | 0.00 |
| 22,000.0 | 90.00 | 183.76 | 10,347.0 | -9,997.5 | 324.6 | 9,998.9 | 0.00 | 0.00 | 0.00 |
| 22,100.0 | 90.00 | 183.76 | 10,347.0 | -10,097.3 | 318.0 | 10,098.7 | 0.00 | 0.00 | 0.00 |
| 22,200.0 | 90.00 | 183.76 | 10,347.0 | -10,197.0 | 311.4 | 10,198.4 | 0.00 | 0.00 | 0.00 |
| 22,300.0 | 90.00 | 183.76 | 10,347.0 | -10,296.8 | 304.9 | 10,298.2 | 0.00 | 0.00 | 0.00 |
| 22,400.0 | 90.00 | 183.76 | 10,347.0 | -10,396.6 | 298.3 | 10,397.9 | 0.00 | 0.00 | 0.00 |
| 22,500.0 | 90.00 | 183.76 | 10,347.0 | -10,496.4 | 291.7 | 10,497.7 | 0.00 | 0.00 | 0.00 |
| 22,600.0 | 90.00 | 183.76 | 10,347.0 | -10,596.2 | 285.2 | 10,597.4 | 0.00 | 0.00 | 0.00 |
| 22,700.0 | 90.00 | 183.76 | 10,347.0 | -10,696.0 | 278.6 | 10,697.2 | 0.00 | 0.00 | 0.00 |
| 22,800.0 | 90.00 | 183.76 | 10,347.0 | -10,795.8 | 272.1 | 10,796.9 | 0.00 | 0.00 | 0.00 |
| 22,900.0 | 90.00 | 183.76 | 10,347.0 | -10,895.5 | 265.5 | 10,896.7 | 0.00 | 0.00 | 0.00 |
| 23,000.0 | 90.00 | 183.76 | 10,347.0 | -10,995.3 | 258.9 | 10,996.4 | 0.00 | 0.00 | 0.00 |
| 23,100.0 | 90.00 | 183.76 | 10,347.0 | -11,095.1 | 252.4 | 11,096.2 | 0.00 | 0.00 | 0.00 |
| 23,200.0 | 90.00 | 183.76 | 10,347.0 | -11,194.9 | 245.8 | 11,195.9 | 0.00 | 0.00 | 0.00 |
| 23,276.4 | 90.00 | 183.76 | 10,347.0 | -11,271.1 | 240.8 | 11,272.2 | 0.00 | 0.00 | 0.00 |
| 23,300.0 | 90.00 | 183.76 | 10,347.0 | -11,294.7 | 239.2 | 11,295.7 | 0.00 | 0.00 | 0.00 |
| 23,325.0 | 90.00 | 183.76 | 10,347.0 | -11,319.6 | 237.6 | 11,320.6 | 0.00 | 0.00 | 0.00 |

**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 |
|---|---|---|---|---|---|---|---|---|---|
| KOP/FTP (Poker Lake U<br>- plan hits target center<br>- Point | 45.00 | 359.73 | 9,630.8 | 1,720.5 | 332.5 | 413,974.67 | 641,977.20 | 32° 8' 14.287 N | 103° 52' 28.747 W |
| LTP PLU 15-34 BD 305H<br>- plan hits target center<br>- Point | 0.00 | 359.76 | 10,347.0 | -11,271.1 | 240.8 | 400,983.00 | 641,885.50 | 32° 6' 5.722 N | 103° 52' 30.456 W |
| BHL PLU 15-34 BD 305H<br>- plan hits target center<br>- Point | 0.00 | 359.76 | 10,347.0 | -11,319.6 | 237.6 | 400,934.50 | 641,882.30 | 32° 6' 5.242 N | 103° 52' 30.495 W |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 5000.18 Single User Db | **Local Co-ordinate Reference:** | Well Poker Lake Unit 15-34 BD 305H |
| **Company:** | ROC | **TVD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Project:** | Long Lead - PLU 15BD | **MD Reference:** | RKB32' @ 3327.0usft (TBD Rig) |
| **Site:** | Poker Lake Unit 15-34 BD - South Pad - 32' RKB | **North Reference:** | Grid |
| **Well:** | Poker Lake Unit 15-34 BD 305H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 0 | | |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 1,026.0 | 1,026.0 | Rustler | | | |
| 1,231.0 | 1,231.0 | Salado | | | |
| 3,745.9 | 3,665.0 | Base of Salt | | | |
| 3,983.4 | 3,893.0 | Delaware | | | |
| 4,954.7 | 4,825.0 | Cherry Canyon | | | |
| 6,581.4 | 6,386.0 | Lower Brushy Canyon | | | |
| 7,639.0 | 7,403.0 | Basal Brushy Canyon | | | |
| 7,940.9 | 7,701.0 | Bone Spring Lm. | | | |
| 8,064.3 | 7,824.0 | Avalon | | | |
| 8,473.4 | 8,233.0 | Lower Avalon | | | |
| 8,648.4 | 8,408.0 | 1st Bone Spring Lime | | | |
| 8,870.4 | 8,630.0 | 1st Bone Spring Sand | | | |
| 9,167.4 | 8,927.0 | 2nd Bone Spring Shale | | | |
| 9,353.4 | 9,113.0 | 2nd Bone Spring Lime | | | |
| 9,572.4 | 9,332.0 | 2nd Bone Spring Sand (A Prime Sand) | | | |
| 9,926.5 | 9,686.0 | 2nd Bone Spring Sand (B Sand) | | | |
| 10,113.0 | 9,868.0 | 3rd Bone Spring Lime | | | |
| 10,478.7 | 10,168.0 | Harkey | | | |
| 10,911.6 | 10,342.0 | Mid 3rd Bone Shale Lime | | | |
| 10,996.2 | 10,347.0 | 3rd Shale Landing | | | |

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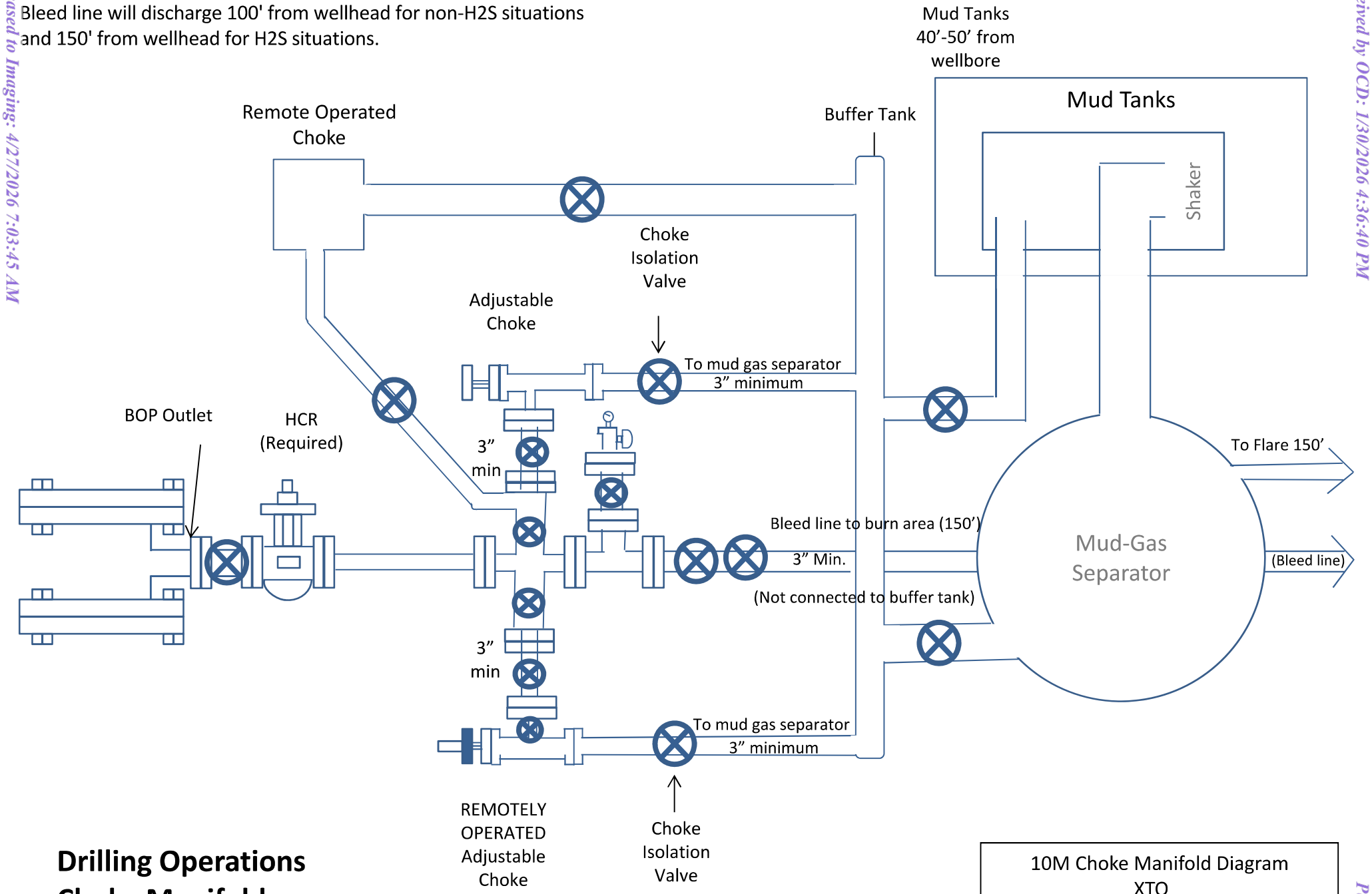
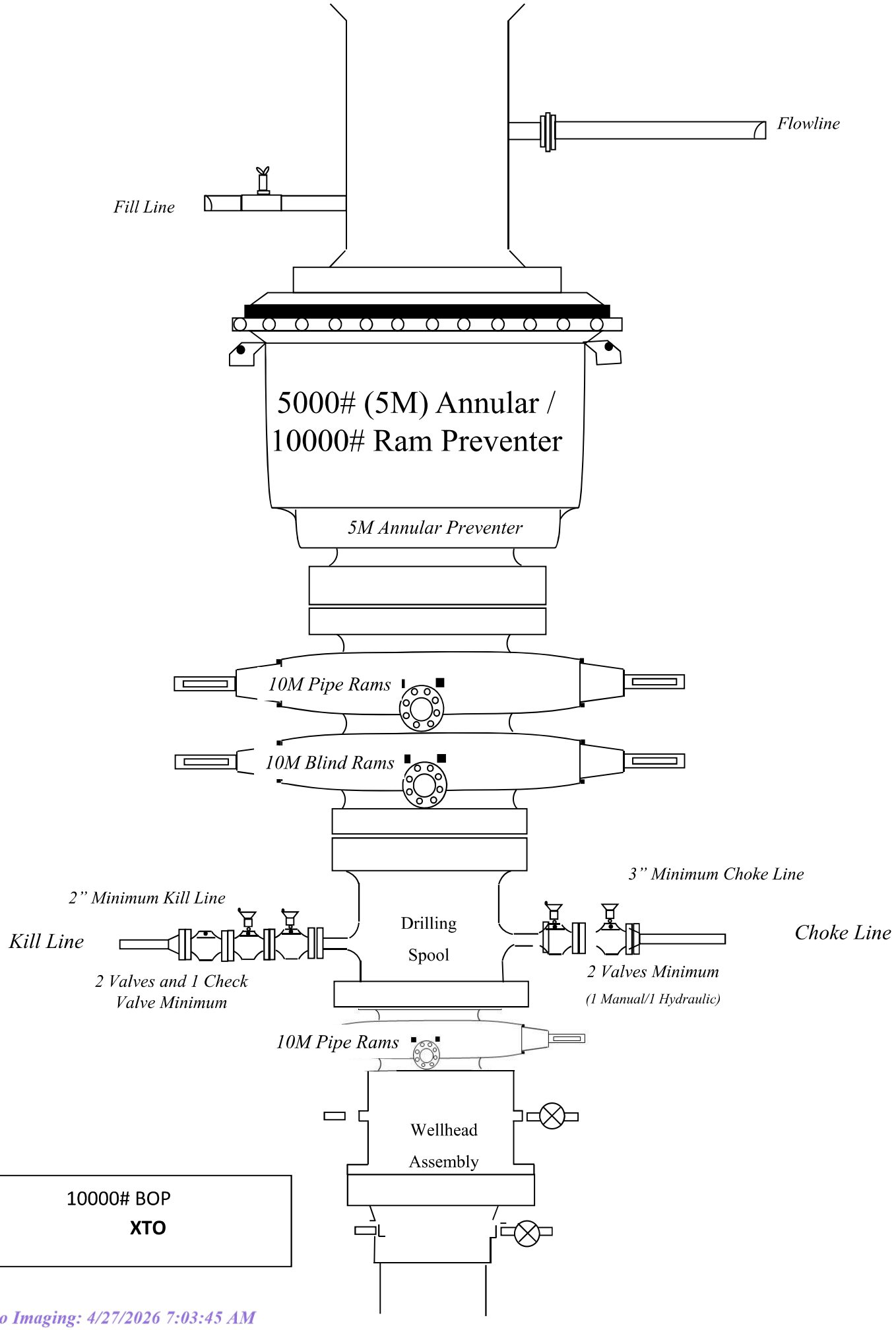
Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.




**Drilling Operations**
**Choke Manifold**
**10M Service**

10M Choke Manifold Diagram
XTO




10000# BOP

**XTO**

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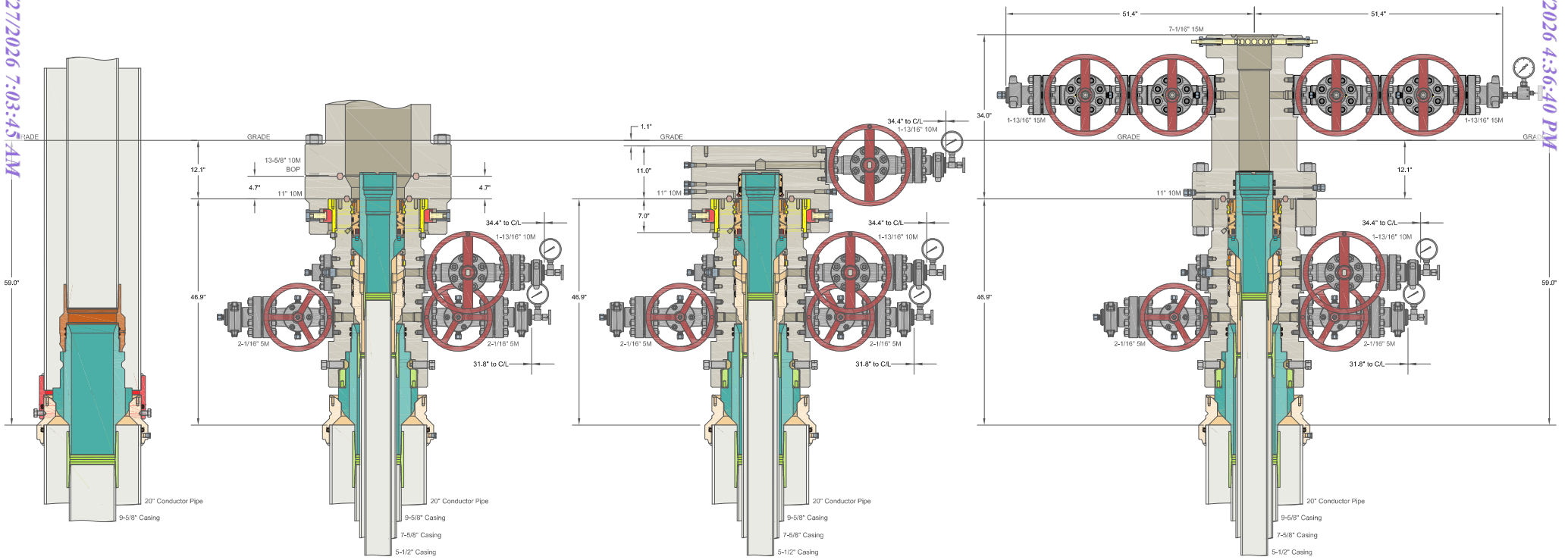


ALL DIMENSIONS APPROXIMATE

| CACTUS WELLHEAD LLC | XTO ENERGY INC<br>DELAWARE BASIN | | |
|---|---|---|---|
| 20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead<br>With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head<br>And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers | DRAWN | VJK | 31MAR22 |
| | APPRV | | |
| | DRAWING NO. | HBE0000479 | |

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

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

**Background**

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

**Supporting Documentation**

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

Figure 1: Winch System attached to BOP Stack

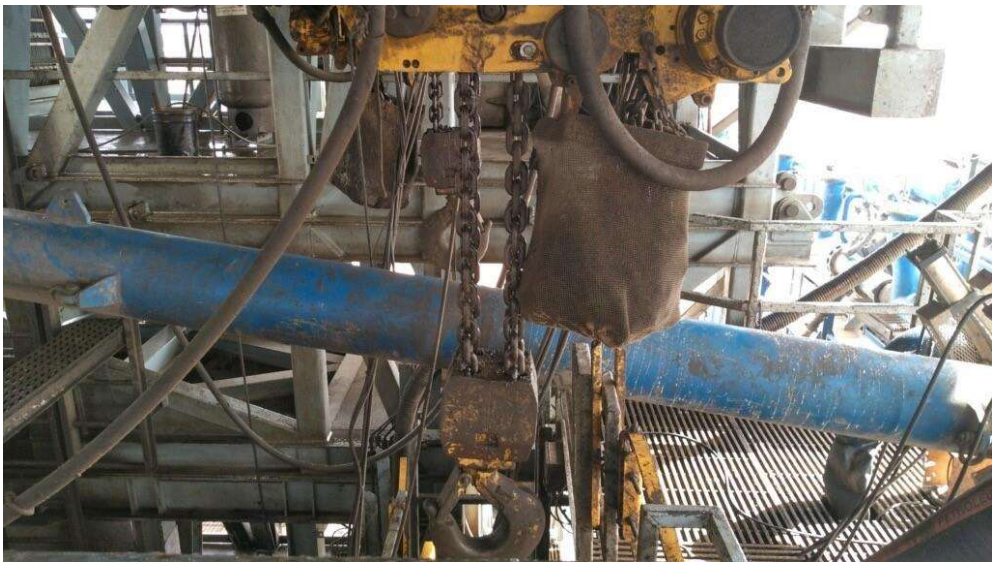


Figure 2: BOP Winch System

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

62 API STANDARD 53

**Table C.4—Initial Pressure Testing, Surface BOP Stacks**

| Component to be Pressure Tested | Pressure Test—Low Pressure[ac] psig (MPa) | Pressure Test—High Pressure[ac] | |
|---|---|---|---|
| | | Change Out of Component, Elastomer, or Ring Gasket | No Change Out of Component, Elastomer, or Ring Gasket |
| Annular preventer[b] | 250 to 350 (1.72 to 2.41) | RWP of annular preventer | MASP or 70% annular RWP, whichever is lower. |
| Fixed pipe, variable bore, blind, and BSR preventers[bd] | 250 to 350 (1.72 to 2.41) | RWP of ram preventer or wellhead system, whichever is lower | ITP |
| Choke and kill line and BOP side outlet valves below ram preventers (both sides) | 250 to 350 (1.72 to 2.41) | RWP of side outlet valve or wellhead system, whichever is lower | ITP |
| Choke manifold—upstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of ram preventers or wellhead system, whichever is lower | ITP |
| Choke manifold—downstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of valve(s), line(s), or MASP for the well program, whichever is lower | |
| Kelly, kelly valves, drill pipe safety valves, IBOPs | 250 to 350 (1.72 to 2.41) | MASP for the well program | |

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

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

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

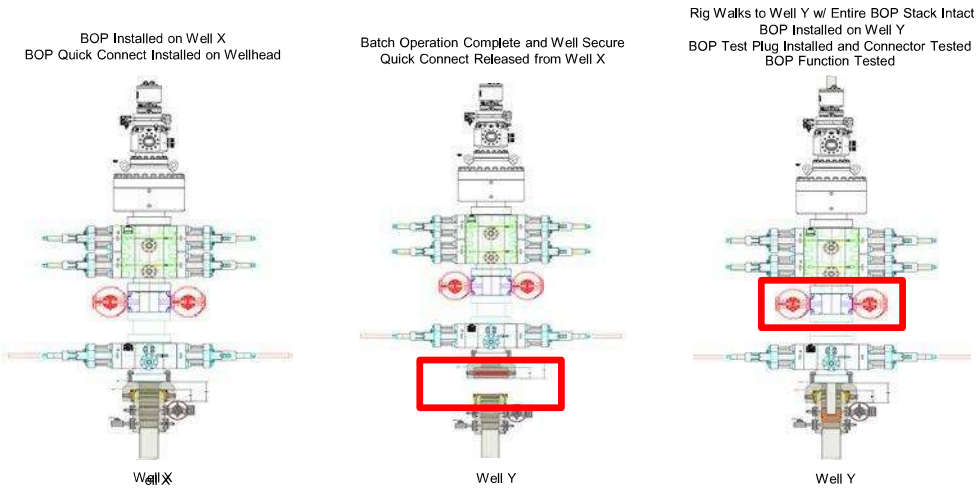
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

**Procedures**

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

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

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




**Summary**

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

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

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

1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

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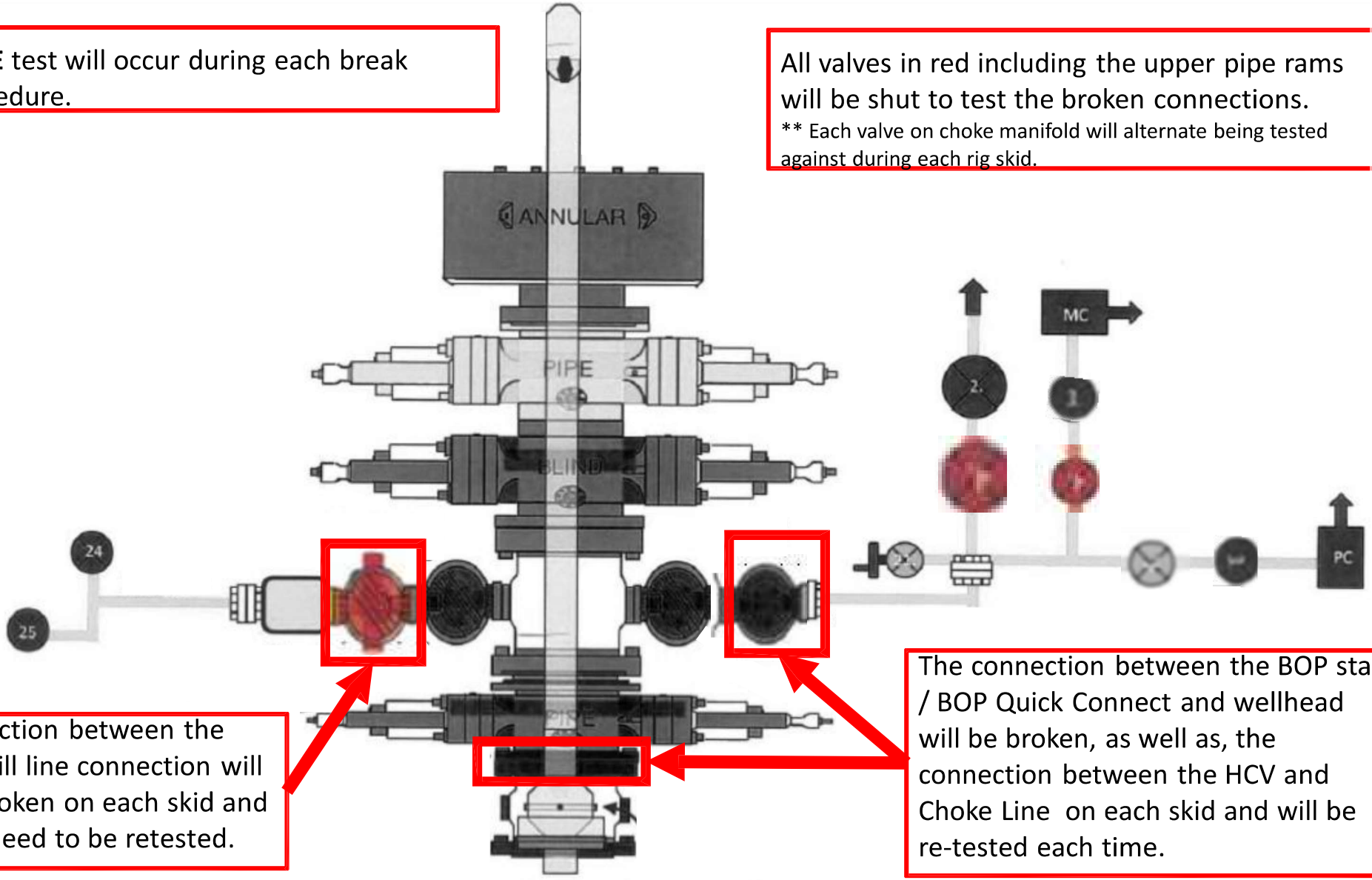
Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.




The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

**BLACK GOLD®**

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**Houston, TX. 77086**

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**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. OSPINOS

**TITLE:** QUALITY ASSURANCE

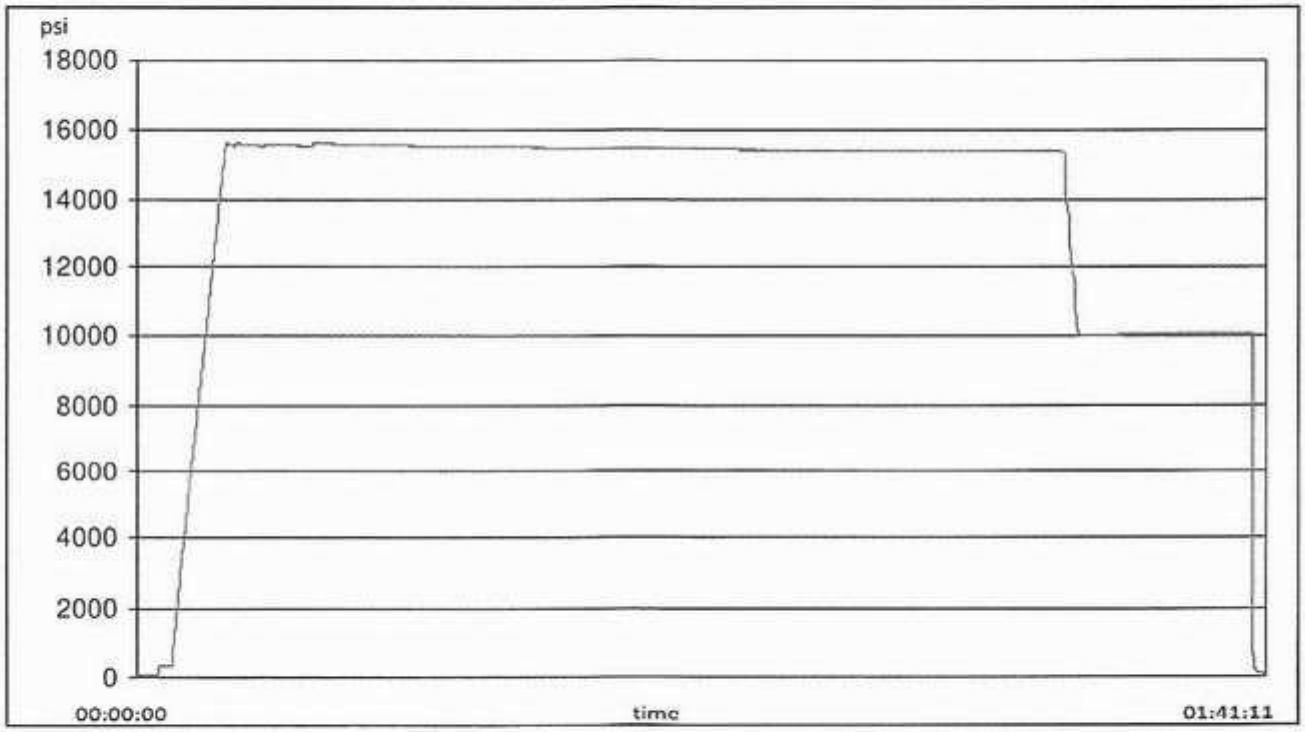
**DATE:** 1/25/2024

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 | | | | |



H3-15/16

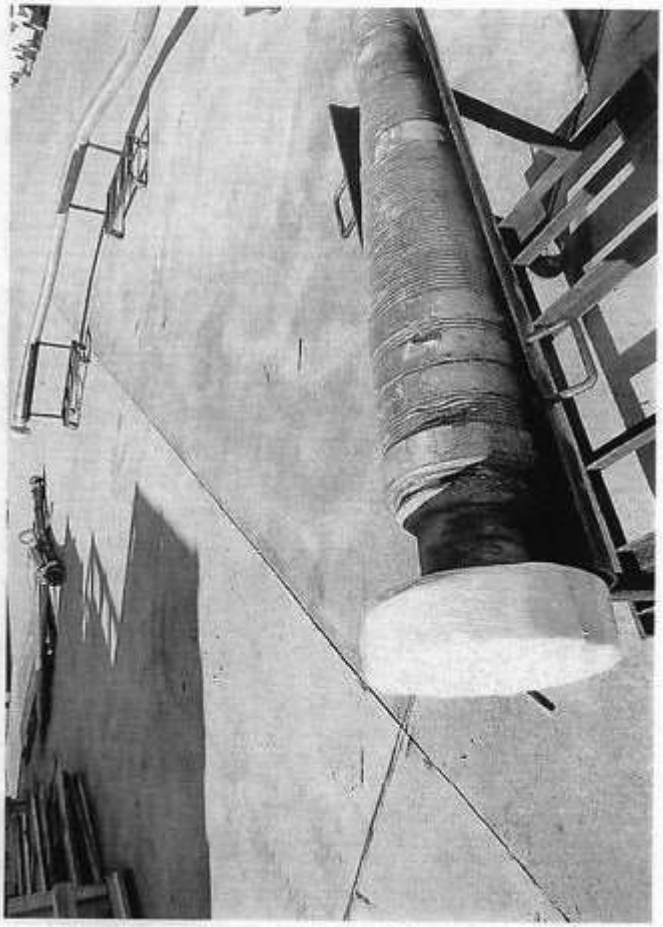
1/25/2024 11:48:06 AM

# 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



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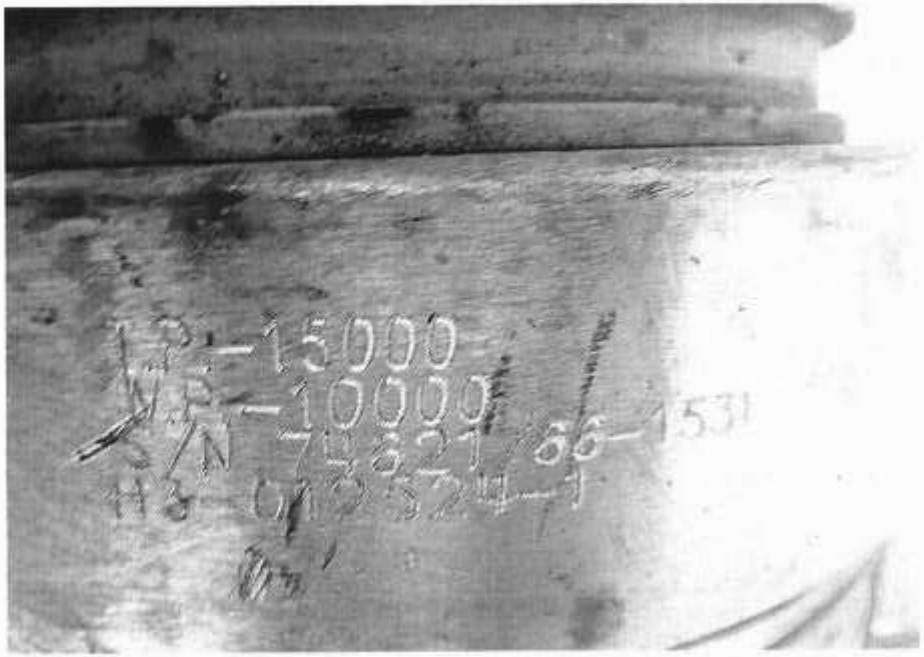
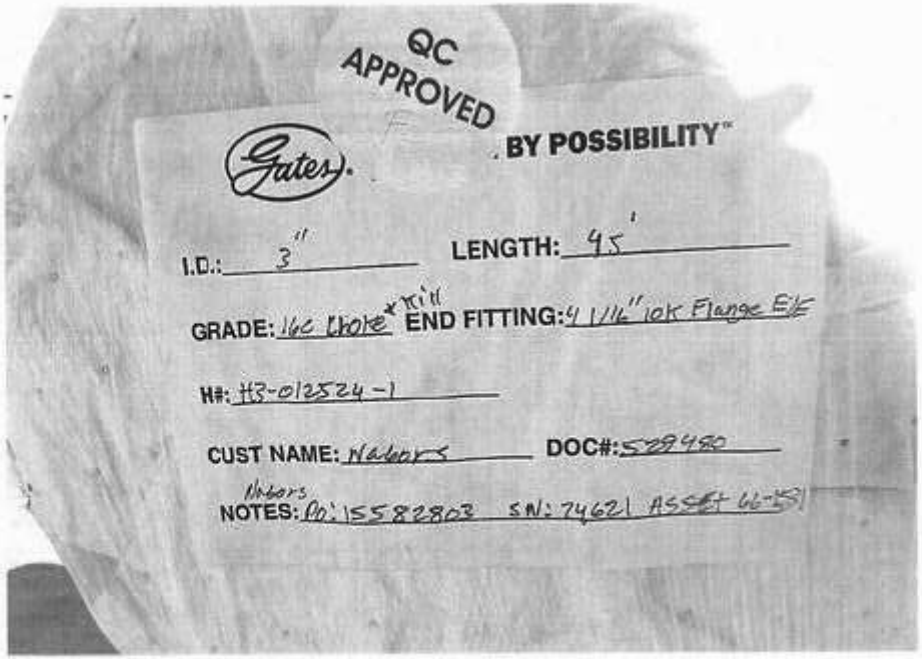




**XTO Permian Operating, LLC Offline Cementing Variance Request**

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

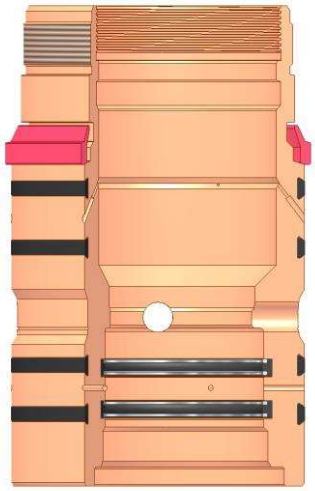
## 1. Cement Program

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

## 2. Offline Cementing Procedure

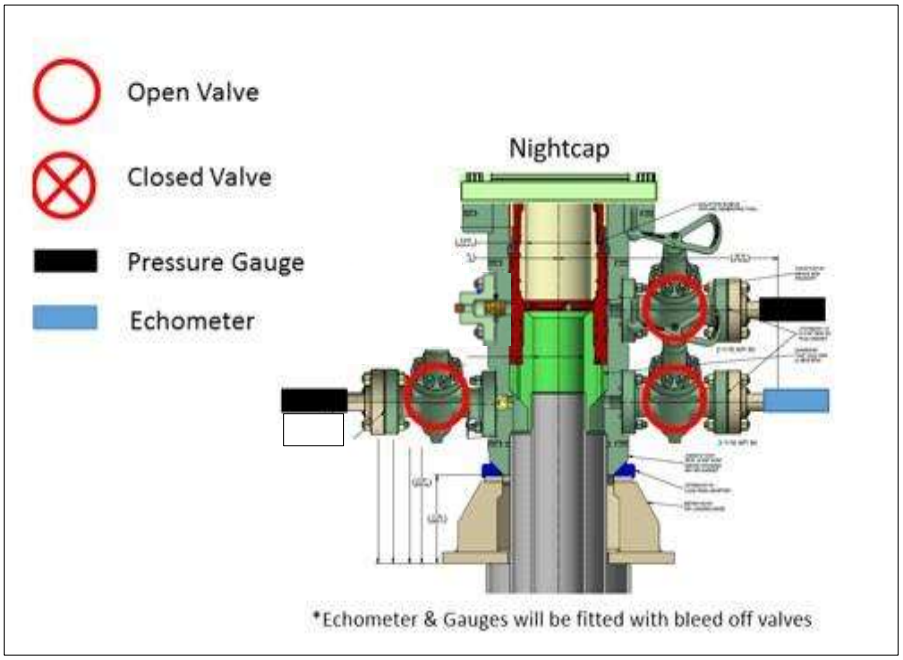
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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

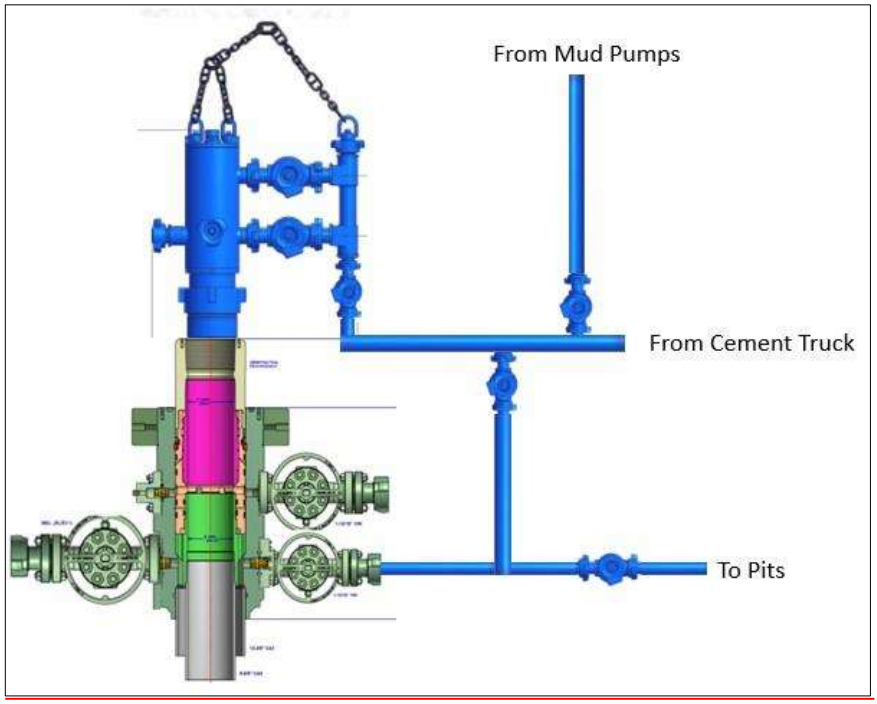
**XTO Permian Operating, LLC Offline Cementing Variance Request**




Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or 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.

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ExxonMobil

# Offline Production Cementing

Delaware Basin | 18 March 2025

Energy lives here™

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# Variance Request for Offline Production Cementing

**Proposal**: allow wells that meet set criteria to perform production casing cement jobs offline, consistent with ExxonMobil's extensive experience safely and effectively cementing production casing strings offline in Texas

**Supporting Materials:**

- Criteria for offline production cementing
- Proposed procedure
- Process and equipment
- Barrier comparison

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Page 249 of 260

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# Criteria for Offline Cementing

The following conditions must be met to proceed with offline production cementing on Wolfcamp target formations or shallower:

a) *Casing hanger successfully landed in the wellhead*
b) *Ability to circulate overbalanced mud weight*
c) *Initiate offline cementing operations within 24hr of landing casing*
d) *All well control barriers test successfully and BLM notified of intent to perform offline production cementing prior to N/D BOP*
e) *No offset frac operations within 1 mile and within the same target horizon*
f) *Well Control certified ExxonMobil Operations Supervisor to be present during offline cementing operation to monitor returns*
g) *Drill ahead operations will not begin on next well until offline production cement operations have concluded*

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Page 250 of 260

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# Offline Cementing Procedure

*Trigger to reevaluate plan*

1. **Land production casing hanger** *If casing hanger cannot be landed, cementing will be performed online*
2. Flow check and **confirm the well is static on the casing and annulus**. *If flow is observed, cementing will be performed online*
3. **Lay down landing joint**
4. **Install and test pack-off assembly**
   a) Pressure test the seal assembly per wellhead provider's procedure to confirm integrity to 250 / 10,000psi
5. **Install back-pressure valve** (BPV, rated to 10,000psi) in hanger per wellhead provider's procedure
6. **Confirm the well is static**
   a) Flow indicates failure of hydrostatic barrier or mechanical barriers and underbalanced well conditions. *If flow is observed, cementing will be performed online*
   b) Notify BLM of intent to proceed with nipple down and offline cementing
7. With the well secured and BLM notified; **nipple down BOP and skid rig** to next well on pad
   *a) Note, verify offline cementing criteria is met before N/D BOP. If unable to meet criteria, cement job will be performed online*
8. **Install and test gate valve**
   a) Test connection between wellhead adapter seals against hanger neck and ring gasket to 250 / 10,000 psi for 5 minutes
9. **Remove BPV from casing**
10. **Rig up cement head and cementing lines**
11. **Perform production cement job** as per procedure
    a) Confirm flowpath and valve alignment; default routing to take returns from casing upper side outlet valves → offline cementing manifold → shakers / pits
    *b) If elevated gas or flow trend observed, reroute returns through choke manifold for ability to hold backpressure to maintain well control and route mud returns to MGS*
12. **Confirm well is static** and double floats are holding after cement job
    *a) If double floats do not hold, the well can be secured by closing gate valve or cement head or by holding and monitoring pressure at the cement truck while WOC*
13. **Rigdown surface equipment**
    a) Bleed any remaining line pressure and remove cement head
    b) Install BPV per wellhead providers recommended procedure
    c) Close upper casing side outlet valves, break and R/D offline cement lines
    d) Remove 10M gate valve and wellhead adapter
14. **Secure well**
    a) Install temporary abandonment cap

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Page 251 of 260

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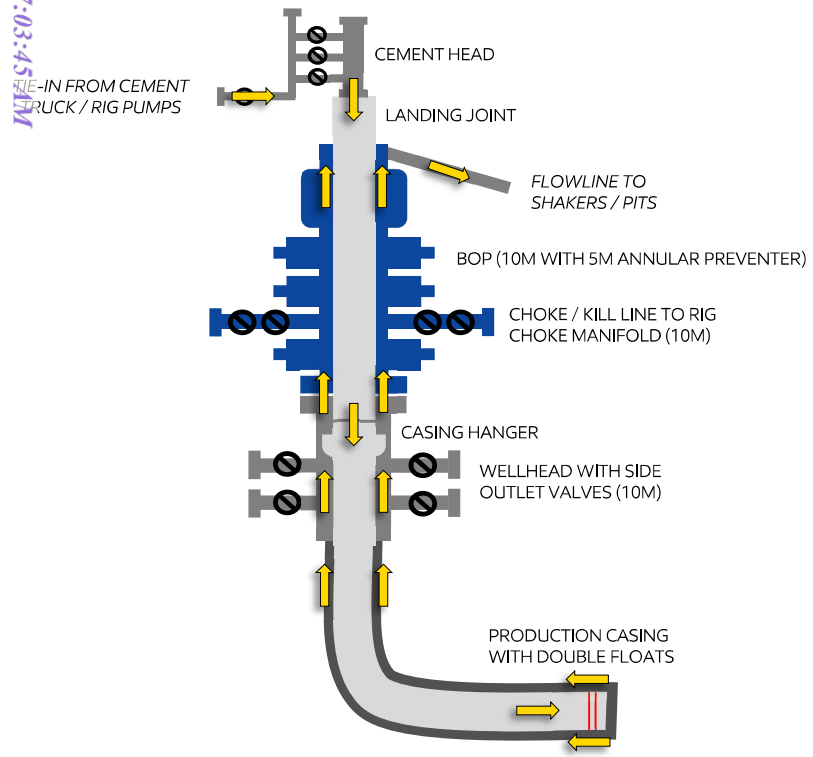
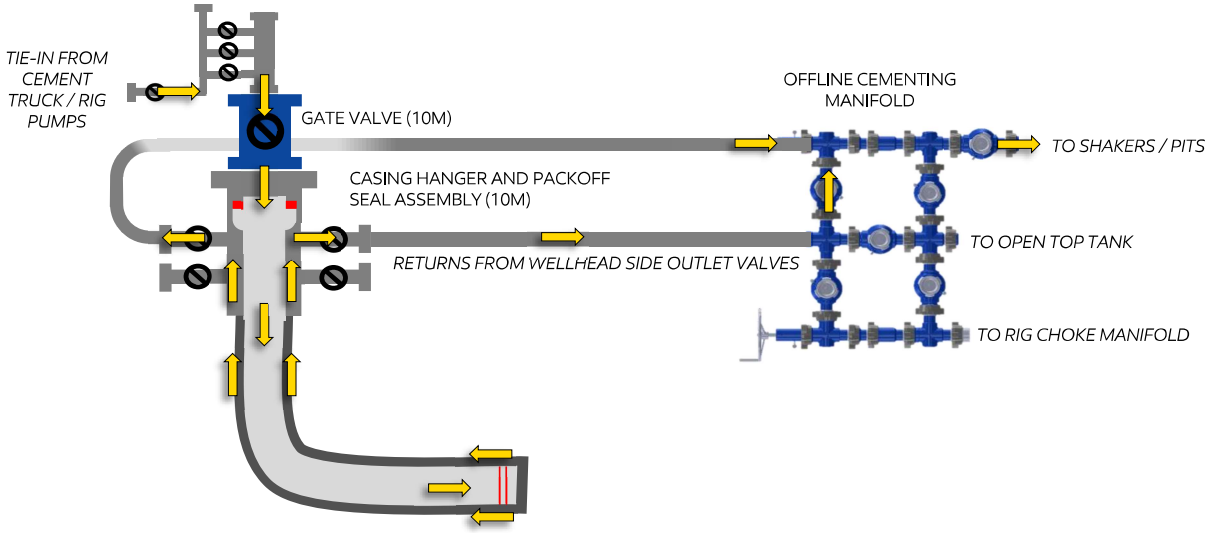
# Process and Equipment

FLOWPATH WHILE CEMENTING

## ONLINE CEMENTING




## OFFLINE CEMENTING




KEY DIFFERENCES

1. ***Rig BOP replaced by gate valve and WH adaptor assembly*** *(10M rated)*
2. ***Addition of offline cementing manifold and high pressure iron*** *to direct fluid returns to rig active system and/or choke manifold*
3. ***Packoff annulus barrier in place*** *and tested prior to cementing operations (10M rated)*
4. ***Cement truck*** *performs cement job displacement (vs rig pumps)*

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Page 252 of 260

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# Barrier Comparison

| | ONLINE | | OFFLINE (PROPOSED) | |
|---|---|---|---|---|
| | Casing | Annulus | Casing | Annulus |
| **N/D BOP & Skid Rig** | | | **1. Hydrostatic**<br>2. Double float valves<br>3. BPV | 1. Hydrostatic<br>2. Packoff |
| **Install Cement Head** | 1. Hydrostatic<br>2. Double float valves | 1. Hydrostatic<br>2. BOP (annular, VBR) | 1. Hydrostatic<br>2. Double float valves<br>**3. Gate valve** | 1. Hydrostatic<br>**2. Packoff**<br>3. Wellhead Adaptor |
| **Perform Cement Job** | 1. Double float valves<br>2. Cement Head | 1. Hydrostatic<br>2. BOP (annular, VBR) | 1. Double float valves<br>2. Cement Head<br>**3. Gate valve** | 1. Hydrostatic<br>**2. Packoff**<br>3. Wellhead Adaptor |
| **Remove Cement Head** | 1. Double float valves | 1. Hydrostatic<br>2. BOP (annular, VBR) | 1. Double float valves<br>**2. Gate valve** | 1. Hydrostatic<br>**2. Packoff**<br>3. Wellhead Adaptor |
| **N/D & Install TA Cap** | 1. Double float valves<br>2. BPV | 1. Hydrostatic<br>2. Packoff | 1. Double float valves<br>2. BPV | 1. Hydrostatic<br>2. Packoff |

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Page 253 of 260

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# Well Control Response Plan

The following well control response plan for offline cementing is the same as for online cementing.

1. **Pre-job design:** Cement job designed to define max pump rates to reduce ECD and avoid losses during cement job.
2. **Identify the influx / re-route return flow:** If an influx is observed, the cementing manifold would be re-routed to direct flow to the rig choke manifold (instead of the shakers). If gas was encountered or a kick was detected, continue pumping the job through the rig choke / gas buster while controlling annulus back pressure through the rig choke. Shut the well in once the job is finished (to ensure cement does not set up inside casing). Roles & responsibilities are as follows:
    - Onsite well site representative responsible for monitoring and helping to identify if an influx occurred with support from the rig crews.
    - Rig crew responsible for shutting in the well.
    - Onsite well site representative responsible for operating the rig choke manifold.
3. **Monitor pressure:** If well is shut-in, pressure monitored while cement is building compressive strength.
4. **Flow check:** Once sufficient time is allocated to build compressive strength, perform flow check.
5. **Shut-in:** If annulus pressure / flow is observed, shut-in the well at the casing valves.
6. **Kill the well:** Pump kill weight mud or cement (depending on well conditions) via bradenhead squeeze down the annulus using the rig pumps tied into the cementing manifold or the cement truck.
7. **Flow check:** Flow check the well to confirm static.



Page 254 of 260

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.

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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

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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
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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

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

General Information
Phone: (505) 629-6116

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

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



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>XTO PERMIAN OPERATING LLC.<br>3617 Big Spring St.<br>MIDLAND, TX 79705 | OGRID:<br>373075 |
| | Action Number:<br>548712 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**ACKNOWLEDGMENTS**

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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
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

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| Operator:<br>XTO PERMIAN OPERATING LLC.<br>3617 Big Spring St.<br>MIDLAND, TX 79705 | OGRID:<br>373075 |
| | Action Number:<br>548712 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| vrajan | Cement is required to circulate on both surface and intermediate1 strings of casing. | 1/30/2026 |
| vrajan | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. | 1/30/2026 |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement. | 4/27/2026 |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 4/27/2026 |
| 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. | 4/27/2026 |
| 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. | 4/27/2026 |
| ward.rikala | If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations. | 4/27/2026 |
| ward.rikala | Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue. | 4/27/2026 |