



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

*Application for Permit to Drill*

**APD Package Report**

Date Printed: 04/29/2025 09:58 AM

APD ID: 10400098990

Well Status: AAPD

APD Received Date: 06/21/2024 02:23 PM

Well Name: POKER LAKE UNIT 13-24 PC

Operator: XTO PERMIAN OPERATING LLC

Well Number: 705H

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: 5 file(s)
  - Other Variances: 4 file(s)
- SUPO Report
- SUPO Attachments
  - Existing Road Map: 1 file(s)
  - Attach Well map: 1 file(s)
  - Production Facilities map: 1 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
  - None

- Bond Report
- Bond Attachments
  - None



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

## APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM05912
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. POKER LAKE UNIT 13-24 PC 705H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-56748
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE / 2420 FNL / 1566 FEL / LAT 32.218156 / LONG -103.934562 At proposed prod. zone NWSE / 2595 FSL / 2154 FEL / LAT 32.246523 / LONG -103.936501		10. Field and Pool, or Exploratory PIERCE CROSSING/BONE SPRING, EA 11. Sec., T. R. M. or Blk. and Survey or Area SEC 13/T24S/R29E/NMP
14. Distance in miles and direction from nearest town or post office*		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1566 feet		13. State NM
16. No of acres in lease		17. Spacing Unit dedicated to this well 720.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet		20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3113 feet		22. Approximate date work will start* 06/09/2025
		23. Estimated duration 30 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) ADRIAN BAKER / Ph: (432) 682-8873	Date 06/21/2024
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 04/28/2025
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)



## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

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

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

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

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

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

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

## NOTICES

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

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

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

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

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

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

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

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

## Additional Operator Remarks

### Location of Well

0. SHL: SWNE / 2420 FNL / 1566 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.218156 / LONG: -103.934562 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNE / 1959 FNL / 2154 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.219429 / LONG: -103.936464 ( TVD: 9155 feet, MD: 9700 feet )

BHL: NWSE / 2595 FSL / 2154 FEL / TWSP: 24S / RANGE: 29E / SECTION: 1 / LAT: 32.246523 / LONG: -103.936501 ( TVD: 9155 feet, MD: 19467 feet )

### BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov

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### **Review and Appeal Rights**

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

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## Poker Lake Unit 13-24 PC 705H

### **APD - Geology COAs (Not in Potash or WIPP)**

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to [blm-cfo-geology@doimspp.onmicrosoft.com](mailto:blm-cfo-geology@doimspp.onmicrosoft.com). Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.
- Exceptions: In areas where there is extensive log coverage (in particular the salt zone adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR and N log requirement due to good well control or other reasons to be approved by BLM Geologist prior to well completion. A waiver approved by BLM must be attached to completion well report to satisfy COAs.
- The top of the Rustler, top and bottom of the Salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

Be aware that:

- No H2S has been reported within one mile of the proposed project.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or [tvevans@blm.gov](mailto:tvevans@blm.gov)

**PECOS DISTRICT  
SURFACE USE  
CONDITIONS OF APPROVAL**

**Poker Lake Unit 13-1 and 13-24 PC Well Additions  
Lease Number NMNM005912  
XTO Permian Operating, LLC**

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☐ **Special Requirements**
  - Watershed
  - Cave/Karst
  - Special Status Plant Species
  - Texas Hornshell Mussel Stipulations
  - VRM
- ☐ **Construction**
  - Notification
  - Topsoil
  - Closed Loop System
  - Federal Mineral Material Pits
  - Well Pads
  - Roads
- ☐ **Road Section Diagram**
- ☐ **Production (Post Drilling)**
  - Well Structures & Facilities
  - Pipelines
  - Electric Lines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

## **I. GENERAL PROVISIONS**

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## **II. PERMIT EXPIRATION**

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

## **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

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

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. 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 the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.



If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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

#### **IV. NOXIOUS WEEDS**

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



## V. SPECIAL REQUIREMENT(S)

### **Watershed:**

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

### **Texas Hornshell mussel (*Popenaias popeii*)-Federally Endangered**

#### **Candidate Conservation Agreement**

The Candidate Conservation Agreement (CCA) is a voluntary agreement designed to implement mitigation and conservation measures for the Texas Hornshell mussel in order to protect the species and its habitat. This agreement is a collaborative effort between Center of Excellence (CEHMM), Bureau of Land Management (BLM) and USFWS and facilitates cooperation between industry such as oil and gas developers, in addition to other stakeholders regarding the mussel as well as the other “Covered Species” that are included in the document. These other “Covered Species” include the Rio Grande River Cooter (*Pseudemys gorzugi*), the Gray Redhorse (*Moxostoma congestum*), the Blue Sucker (*Cycleptus elongates*) and the Pecos Springsnail (*Pyrgulopsis pecosensis*). The CCA was developed for federal lands while a separate agreement, the Candidate Conservation Agreement with Assurances (CCAA), was developed for state and private lands. There are four designated riparian management zones that categorize the “Covered Area” of the CCA. These zones are described below:

Zone A: Occupied Habitat within the Black River and Delaware River.

Zone B: The Black and Delaware Rivers (excluding Zone A in each), Blue Springs, and their associated USGS 100-year floodplain.

Zone C: Ephemeral drainages to the Black and Delaware rivers, including Owl Draw.

Zone D: The area within the CCA Boundary, not otherwise described in management zones A, B, or C.

The proposed project area falls within the “covered zones” of the CCA. This project would have a “may affect, not likely to adversely affect” determination regarding the Texas Hornshell mussel (USFWS Consultation # 02ENNM00-2017-F-0871). This project is “not likely to adversely affect” the proposed critical habitat for the species. In addition, the following mitigation measures will be implemented.

**Mitigation Measures**

Oil and Gas Zone D - CCA Boundary requirements.

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

**Cave/Karst Surface Mitigation**

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

**Construction:****General Construction:**

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

**Pad Construction:**

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.

- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

**Tank Battery Construction:**

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.
- Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

**Road Construction:**

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

**Buried Pipeline/Cable Construction:**

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

**Powerline Construction:**

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

**Surface Flowlines Installation:**

- Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

**Leak Detection System:**

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, siting valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.
- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

**Automatic Shut-off Systems:**

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

**Cave/Karst Subsurface Mitigation**

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

**Closed Loop System:**

- A closed loop system using steel tanks will be utilized during drilling – no pits
- All fluids and cuttings will be hauled off-site and disposed of properly at an authorized site

**Rotary Drilling with Fresh Water:**

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

**Directional Drilling:**

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

**Lost Circulation:**

- ALL lost circulation zones between surface and the base of the cave occurrence zone will be logged and reported in the drilling report.
- If a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, regardless of the type of drilling machinery used, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

**Abandonment Cementing:**

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.
- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

**Pressure Testing:**

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

**VI. CONSTRUCTION****A. NOTIFICATION**

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

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

**B. TOPSOIL**

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

**C. CLOSED LOOP SYSTEM**

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

**D. FEDERAL MINERAL MATERIALS PIT**

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

#### **E. WELL PAD SURFACING**

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

#### **F. EXCLOSURE FENCING (CELLARS & PITS)**

##### **Exclosure Fencing**

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

#### **G. ON LEASE ACCESS ROADS**

##### **Road Width**

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

##### **Surfacing**

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

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

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

##### **Crowning**



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

### Ditching

Ditching shall be required on both sides of the road.

### Turnouts

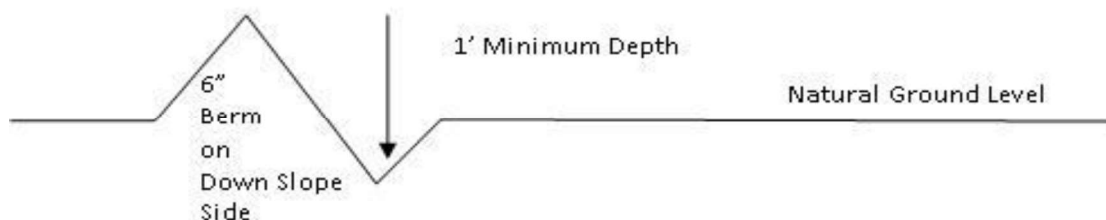
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

**Cross Section of a Typical Lead-off Ditch**



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

### Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

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

### Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

**Fence Requirement**

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

**Public Access**

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



- Construction Steps
1. Salvage topsoil

2. Construct road

3. Redistribute topsoil

4. Revegetate slopes

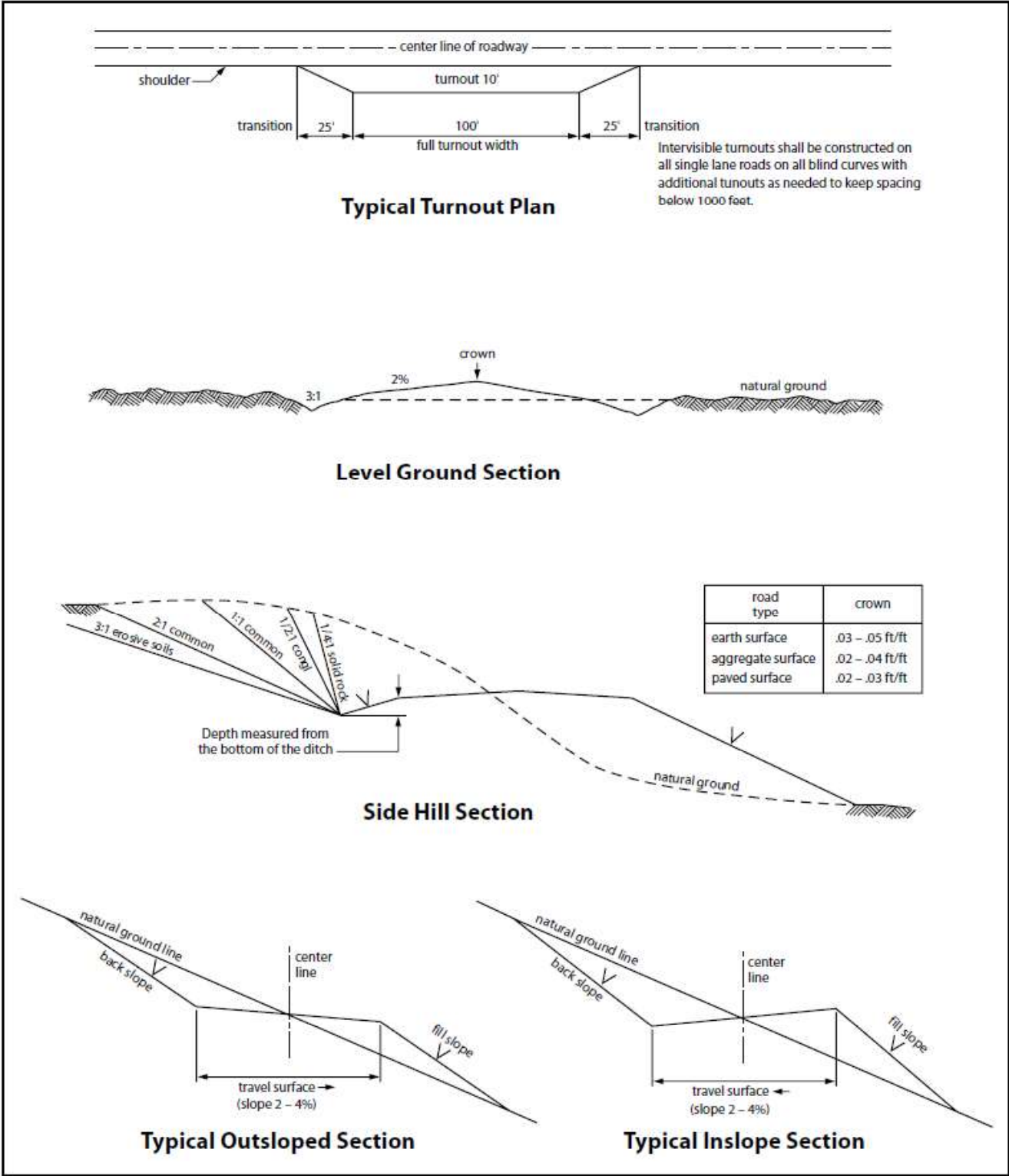


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## VII. PRODUCTION (POST DRILLING)

### A. WELL STRUCTURES & FACILITIES

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

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

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

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

#### **Chemical and Fuel Secondary Containment and Exclosure Screening**

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

#### **Open-Vent Exhaust Stack Exclosures**

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

#### **Containment Structures**

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

### **Painting Requirement**

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

## **B. PIPELINES**

### **STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES**

**A copy of the Grant 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.**

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

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder 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 right-of-way or on facilities authorized under this right-of-way grant (*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. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.
4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder 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 right-of-way or permit area:

- a. Activities of Holder 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 should be 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 Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she 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 Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 30 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. 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 right-of-ways.

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

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

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

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

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

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder 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 right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

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

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

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. 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 the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting,



excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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

18. 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.

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

### BURIED PIPELINE STIPULATIONS

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the

Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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

5. All construction and maintenance activity will be confined to the authorized right-of-way.

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

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence

line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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

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

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- |  |  |
|--|--|
| <input type="checkbox"/> seed mixture 1            | <input type="checkbox"/> seed mixture 3          |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4          |
| <input type="checkbox"/> seed mixture 2/LPC        | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

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

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

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



OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. 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 the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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

19. 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.

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

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

## C. ELECTRIC LINES

### STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

**A copy of the grant 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.**

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

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way 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 holder 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 right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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.

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

7. 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.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. 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 grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

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

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. 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 the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

11. The holder is hereby obligated to comply with procedures established in the Native American

Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly.

Fill in any holes from the poles removed.

## VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

## **IX. FINAL ABANDONMENT & RECLAMATION**

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO
<b>LEASE NO.:</b>	NMNM05912
<b>LOCATION:</b>	Sec. 13, T.24 S, R 29 E
<b>COUNTY:</b>	Eddy County, New Mexico ▼
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 13-24 PC 705H
<b>SURFACE HOLE FOOTAGE:</b>	2420'/N & 1566'/E
<b>BOTTOM HOLE FOOTAGE:</b>	2595'/S & 2154'/E

COA

<b>H<sub>2</sub>S</b>	<input checked="" type="radio"/> No <span style="margin-left: 100px;"><input type="radio"/> Yes</span>			
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="radio"/> Open Annulus <input type="checkbox"/> WIPP
	Choose an option (including blank option.)			
<b>Cave / Karst</b>	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
<b>Special Req</b>	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
<b>Waste Prev.</b>	<input type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input type="radio"/> APD Submitted prior to 06/10/2024	
<b>Additional Language</b>	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 **400** feet (a minimum of **70 feet** (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping

- cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch Intermediate casing is:  
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 5797'**.
  - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

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

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

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



### C. PRESSURE CONTROL

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

### D. SPECIAL REQUIREMENT (S)

#### 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)**



**BOPE Break Testing Variance**

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

**Offline Cementing**

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

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

**Casing Clearance**

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

## GENERAL REQUIREMENTS

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

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

### Contact Eddy County Petroleum Engineering Inspection Staff:

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

[BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

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

### A. CASING

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

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

## **B. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - v. The results of the test shall be reported to the appropriate BLM office.
  - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
  - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

### **C. DRILLING MUD**

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

### **D. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**Approved by Zota Stevens on 4/4/2025**  
575-234-5998 / [zstevens@blm.gov](mailto:zstevens@blm.gov)



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

## Operator Certification Data Report

04/29/2025

### Operator

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** RICHARD L REDUS

**Signed on:** 06/21/2024

**Title:** Permitting Manager

**Street Address:** 22777 SPRINGWOODS VILLAGE PARKWAY

**City:** SPRING

**State:** TX

**Zip:** 77389

**Phone:** (720)539-1673

**Email address:** RICHARD.L.REDUS@EXXONMOBIL.COM

### Field

**Representative Name:** Adrian Baker

**Street Address:** 22777 Springwoods Village Pkwy

**City:** Spring

**State:** TX

**Zip:** 77389

**Phone:** (432)236-3808

**Email address:** adrian.baker@exxonmobil.com





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

## Application Data

04/29/2025

APD ID: 10400098990

Submission Date: 06/21/2024

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 13-24 PC

Well Number: 705H

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400098990

Tie to previous NOS? N

Submission Date: 06/21/2024

BLM Office: Carlsbad

User: RICHARD L REDUS

Title: Permitting Manager

Federal/Indian APD: FED

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

Lease number: NMNM05912

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 13-24 PC

Well Number: 705H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PIERCE  
CROSSING


Pool Name: BONE SPRING,  
EAST


**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**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?** Y **New surface disturbance?** N**Type of Well Pad:** MULTIPLE WELL**Multiple Well Pad Name:** Poker Lake Unit 13-24 PC**Number:** B**Well Class:** HORIZONTAL**Number of Legs:** 1**Well Work Type:** Drill**Well Type:** OIL WELL**Describe Well Type:****Well sub-Type:** INFILL**Describe sub-type:****Distance to town:****Distance to nearest well:** 30 FT**Distance to lease line:** 1566 FT**Reservoir well spacing assigned acres Measurement:** 720 Acres**Well plat:** 2024030175\_XTO\_POKER\_LAKE\_UNIT\_13\_24\_PC\_705H\_\_C\_102\_FINAL\_R2\_5\_19\_2024\_20250214084739.pdf**Well work start Date:** 06/09/2025**Duration:** 30 DAYS**Section 3 - Well Location Table****Survey Type:** RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:****Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	2420	FNL	1566	FEL	24S	29E	13	Aliquot SWNE	32.218156	- 103.934562	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 05912	3113	0	0	Y
KOP Leg #1	2420	FNL	1566	FEL	24S	29E	13	Aliquot SWNE	32.218156	- 103.934562	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 05912	- 5340	8500	8453	Y
PPP Leg #1-1	1959	FNL	2154	FEL	24S	29E	13	Aliquot SWNE	32.219429	- 103.936464	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 05912	- 6042	9700	9155	Y

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H

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	254 5	FSL	215 4	FEL	24S	29E	1	Aliquot NWSE	32.24638 6	- 103.9365	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 70175A	- 604 2	194 17	915 5	Y
BHL Leg #1	259 5	FSL	215 4	FEL	24S	29E	1	Aliquot NWSE	32.24652 3	- 103.9365 01	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 70175A	- 604 2	194 67	915 5	Y

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024  Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled							
<b>WELL LOCATION INFORMATION</b>									
API Number 30-015- <b>56748</b>	Pool Code 96473	Pool Name PIERCE CROSSING; BONE SPRING, EAST							
Property Code <b>333842</b>	Property Name POKER LAKE UNIT 13-24 PC	Well Number 705H							
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,113'							
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal							
<b>Surface Location</b>									
UL G	Section 13	Township 24 S	Range 29 E	Lot	Ft. from N/S 2,420' FNL	Ft. from E/W 1,566' FEL	Latitude 32.218156	Longitude -103.934562	County EDDY
<b>Bottom Hole Location</b>									
UL J	Section 1	Township 24 S	Range 29 E	Lot	Ft. from N/S 2,595' FSL	Ft. from E/W 2,154' FEL	Latitude 32.246523	Longitude -103.936501	County EDDY
Dedicated Acres 719.94		Infill or Defining Well DEFINING		Defining Well API		Overlapping Spacing Unit (Y/N) Y		Consolidation Code U	
Order Numbers. N/A						Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Kick Off Point (KOP)</b>									
UL G	Section 13	Township 24 S	Range 29 E	Lot	Ft. from N/S 2,420' FNL	Ft. from E/W 1,566' FEL	Latitude 32.218156	Longitude -103.934562	County EDDY
<b>First Take Point (FTP)</b>									
UL G	Section 13	Township 24 S	Range 29 E	Lot	Ft. from N/S 1,959' FNL	Ft. from E/W 2,154' FEL	Latitude 32.219429	Longitude -103.936464	County EDDY
<b>Last Take Point (LTP)</b>									
UL J	Section 1	Township 24 S	Range 29 E	Lot	Ft. from N/S 2,545' FSL	Ft. from E/W 2,154' FEL	Latitude 32.246386	Longitude -103.936500	County EDDY
Unitized Area or Area of Uniform Interest NMNM105422429				Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical			Ground Floor Elevation: 3,113'		
<b>OPERATOR CERTIFICATIONS</b>  <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</i>  <div style="display: flex; justify-content: space-between;"> <div> <u>Samantha Weis</u>            Signature            Samantha Weis             Printed Name            samantha.r.bartnik@exxonmobil.com            Email Address         </div> <div>           4/28/2025            Date         </div> </div>					<b>SURVEYOR CERTIFICATIONS</b>  <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p><small>I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.</small></p> <p><u>Tim</u> 14 April 2025            Signature and Seal of Professional Surveyor</p> <p><small>TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209</small></p> </div> <div style="flex: 0.5; text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-between;"> <div>           Certificate Number            TIM C. PAPPAS 21209         </div> <div>           Date of Survey            4/14/2025         </div> </div>				
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.									



2205 Walnut Street - Columbus, TX 78934  
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DATE: 4-14-2025  
 DRAWN BY: LM  
 CHECKED BY: CH  
 FIELD CREW: IR  
  
 PROJECT NO: 2024030175  
 SCALE:  
 SHEET: 1 OF 2  
 REVISION:

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a 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 directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

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

LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- 330' BUFFER
- DEDICATED ACREAGE

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	308° 01'55"	748.48'
L2	359° 43'17"	9,856.45'

COORDINATE TABLE

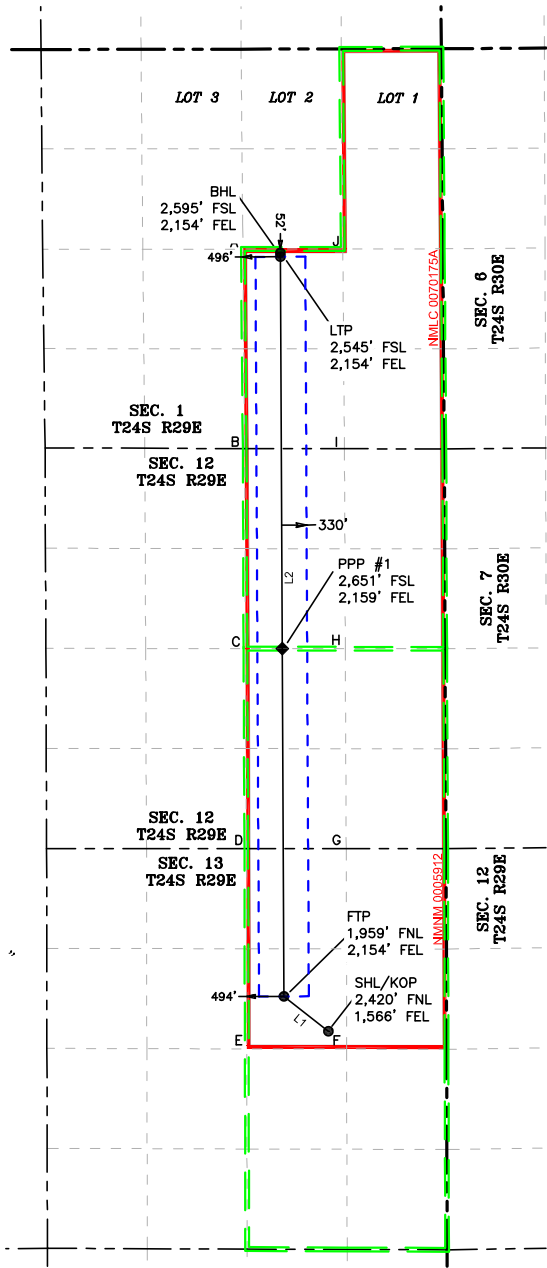
SHL/KOP (NAD 83 NME)				LTP (NAD 83 NME)			
Y =	443,327.7	N		Y =	453,595.2	N	
X =	664,658.5	E		X =	664,021.3	E	
LAT. =	32.218156	°N		LAT. =	32.246386	°N	
LONG. =	103.934562	°W		LONG. =	103.936500	°W	
FTP (NAD 83 NME)				BHL (NAD 83 NME)			
Y =	443,788.9	N		Y =	453,645.2	N	
X =	664,068.9	E		X =	664,021.0	E	
LAT. =	32.219429	°N		LAT. =	32.246523	°N	
LONG. =	103.936464	°W		LONG. =	103.936501	°W	
SHL/KOP (NAD 27 NME)				LTP (NAD 27 NME)			
Y =	443,268.3	N		Y =	453,535.6	N	
X =	623,475.0	E		X =	622,838.1	E	
LAT. =	32.218031	°N		LAT. =	32.246262	°N	
LONG. =	103.934073	°W		LONG. =	103.936010	°W	
FTP (NAD 27 NME)				BHL (NAD 27 NME)			
Y =	443,729.5	N		Y =	453,585.6	N	
X =	622,885.4	E		X =	622,837.8	E	
LAT. =	32.219305	°N		LAT. =	32.246399	°N	
LONG. =	103.935975	°W		LONG. =	103.936010	°W	
PPP #1 (NAD 83 NME)				PPP #1 (NAD 27 NME)			
Y =	448,399.3	N		Y =	448,339.8	N	
X =	664,046.5	E		X =	622,863.2	E	
LAT. =	32.232103	°N		LAT. =	32.231979	°N	
LONG. =	103.936481	°W		LONG. =	103.935991	°W	

CORNER COORDINATES (NAD83 NME)

A - Y =	453,696.5	N	A - X =	663,524.5	E
B - Y =	451,051.0	N	B - X =	663,547.9	E
C - Y =	448,399.9	N	C - X =	663,559.1	E
D - Y =	445,748.2	N	D - X =	663,570.2	E
E - Y =	443,093.9	N	E - X =	663,576.0	E
F - Y =	443,091.0	N	F - X =	664,900.3	E
G - Y =	445,747.4	N	G - X =	664,894.3	E
H - Y =	448,398.4	N	H - X =	664,882.2	E
I - Y =	451,048.8	N	I - X =	664,870.9	E
J - Y =	453,698.2	N	J - X =	664,849.6	E

CORNER COORDINATES (NAD27 NME)

A - Y =	453,636.9	N	A - X =	622,341.4	E
B - Y =	450,991.4	N	B - X =	622,364.7	E
C - Y =	448,340.4	N	C - X =	622,375.8	E
D - Y =	445,688.8	N	D - X =	622,386.8	E
E - Y =	443,034.6	N	E - X =	622,392.5	E
F - Y =	443,031.7	N	F - X =	623,716.8	E
G - Y =	445,687.9	N	G - X =	623,710.9	E
H - Y =	448,338.9	N	H - X =	623,698.9	E
I - Y =	450,989.3	N	I - X =	623,687.7	E
J - Y =	453,638.6	N	J - X =	623,666.4	E



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DATE: 4-14-2025 PROJECT NO: 2024030175  
DRAWN BY: LM SCALE: 1" = 2,000'  
CHECKED BY: CH SHEET: 2 OF 2  
FIELD CREW: IR REVISION:



# Drilling Plan Data Report

04/29/2025

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

APD ID: 10400098990

Submission Date: 06/21/2024

Highlighted data  
reflects the most  
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 13-24 PC

Well Number: 705H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15511056	QUATERNARY	3113	0	0	ALLUVIUM	USEABLE WATER	N
15511055	RUSTLER	2694	419	419	ANHYDRITE, SANDSTONE	USEABLE WATER	N
15511064	SALADO	2472	641	641	SALT	NONE	N
15511058	BASE OF SALT	-35	3148	3148	SALT	NONE	N
15511059	DELAWARE	-237	3350	3350	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
15511060	BRUSHY CANYON	-2671	5784	5784	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
15511057	BONE SPRING	-3979	7092	7092	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15511061	BONE SPRING 1ST	-4820	7933	7933	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15511062	BONE SPRING 2ND	-5232	8345	8345	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15511063	BONE SPRING 2ND	-5831	8944	8944	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9155

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

**Requesting Variance?** YES

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

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

**Choke Diagram Attachment:**

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H

10MCM\_20250214091430.pdf

**BOP Diagram Attachment:**

5M10M\_BOP\_20250214091446.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	519	0	519	3113	2594	519	J-55	40	BUTT	12.13	1.92	DRY	30.35	DRY	30.35
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	8286	0	8239	3113	-5126	8286	L-80	29.7	FJ	2.77	2.74	DRY	3.19	DRY	3.19
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	19467	0	9155	3113	-6042	19467	P-110	20	OTHER - Freedom HTQ/Talon HTQ	2.45	1.26	DRY	2.45	DRY	2.45

**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 13-24 PC**Well Number:** 705H**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\_20.00\_production\_casing\_20250214121127.pdf

Talon\_\_semiflush\_5.5\_20.00\_production\_casing\_20250214121127.pdf

**Tapered String Spec:**

PC\_13\_24\_705H\_Csg\_Assumptions\_20250218095415.pdf

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

PC\_13\_24\_705H\_Csg\_Assumptions\_20250218095431.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	519	70	1.87	10.5	130.9	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	519	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	5784	540	1.35	14.8	729	100	Class C	n/a
INTERMEDIATE	Tail		5784	8286	650	1.33	14.8	864.5	100	Class C	NA

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		7986	8486	20	2.69	11.5	53.8	30	NeoCem	n/a
PRODUCTION	Tail		8486	1946 7	780	1.51	13.2	1177. 8	30	VersaCem	n/a

### Section 5 - Circulating Medium

**Mud System Type:** Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with 43 CFR 3172:****Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

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

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

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	519	WATER-BASED MUD	8.4	8.9							
519	8286	OTHER : Fully sat brine for salt interval / BDE	9	9.5							
8286	1946 7	OIL-BASED MUD	9.5	10							

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H

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

**Coring operation description for the well:**

No coring operations are planned for the well.

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4761**Anticipated Surface Pressure:** 2746**Anticipated Bottom Hole Temperature(F):** 175**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

XTO\_Energy\_H2S\_Plan\_Updated\_20240611150020.pdf

## Section 8 - Other Information

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

Well\_Plan\_Report\_\_\_PLU\_Unit\_13\_24\_PC\_705H\_20240611150211.pdf

Poker\_Lake\_Unit\_13\_24\_Pierce\_Canyon\_705H\_20250219145741.pdf

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

PC\_13\_24\_705H\_Cement\_Variance\_Request\_20240611150847.pdf

PC\_13\_MBS\_20240611150931.pdf

PC\_13\_H2S\_PadC\_20240617110447.pdf

PC\_13\_H2S\_PadB\_20240617110447.pdf

NGMPForm\_PLU\_13\_Pierce\_Canyon\_BS\_20241223114655\_20250214115932.pdf

**Other Variance attachment:**

PC\_13\_OLCV\_20240611151240.pdf

BOP\_Break\_Test\_Variance\_20250214105105.pdf

Flex\_Hose\_Updated\_20250214104039\_20250214120213.pdf

**Operator Name:** XTO PERMIAN OPERATING LLC

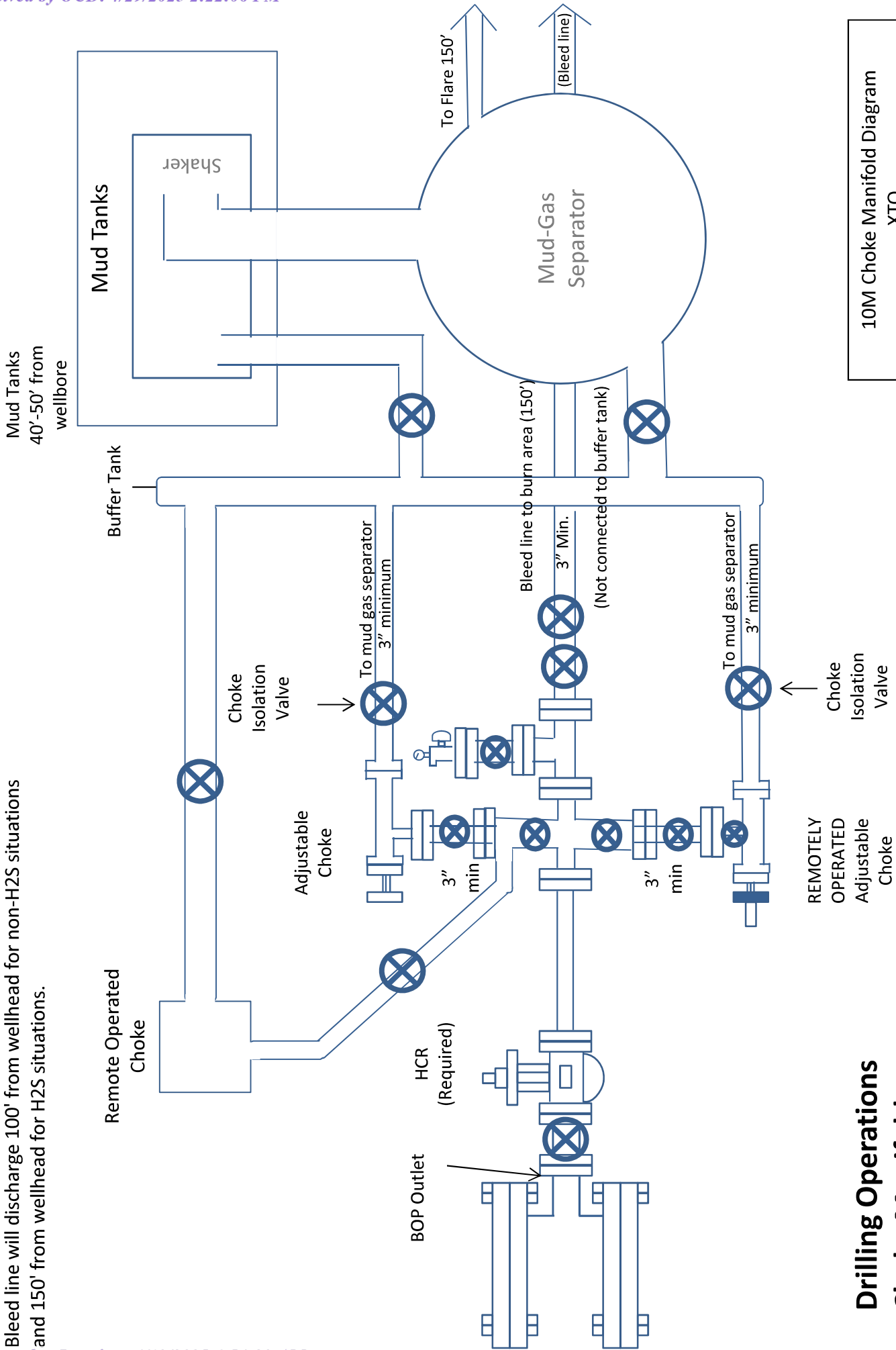
**Well Name:** POKER LAKE UNIT 13-24 PC

**Well Number:** 705H

Spudder\_Rig\_Request\_20250218095520.pdf

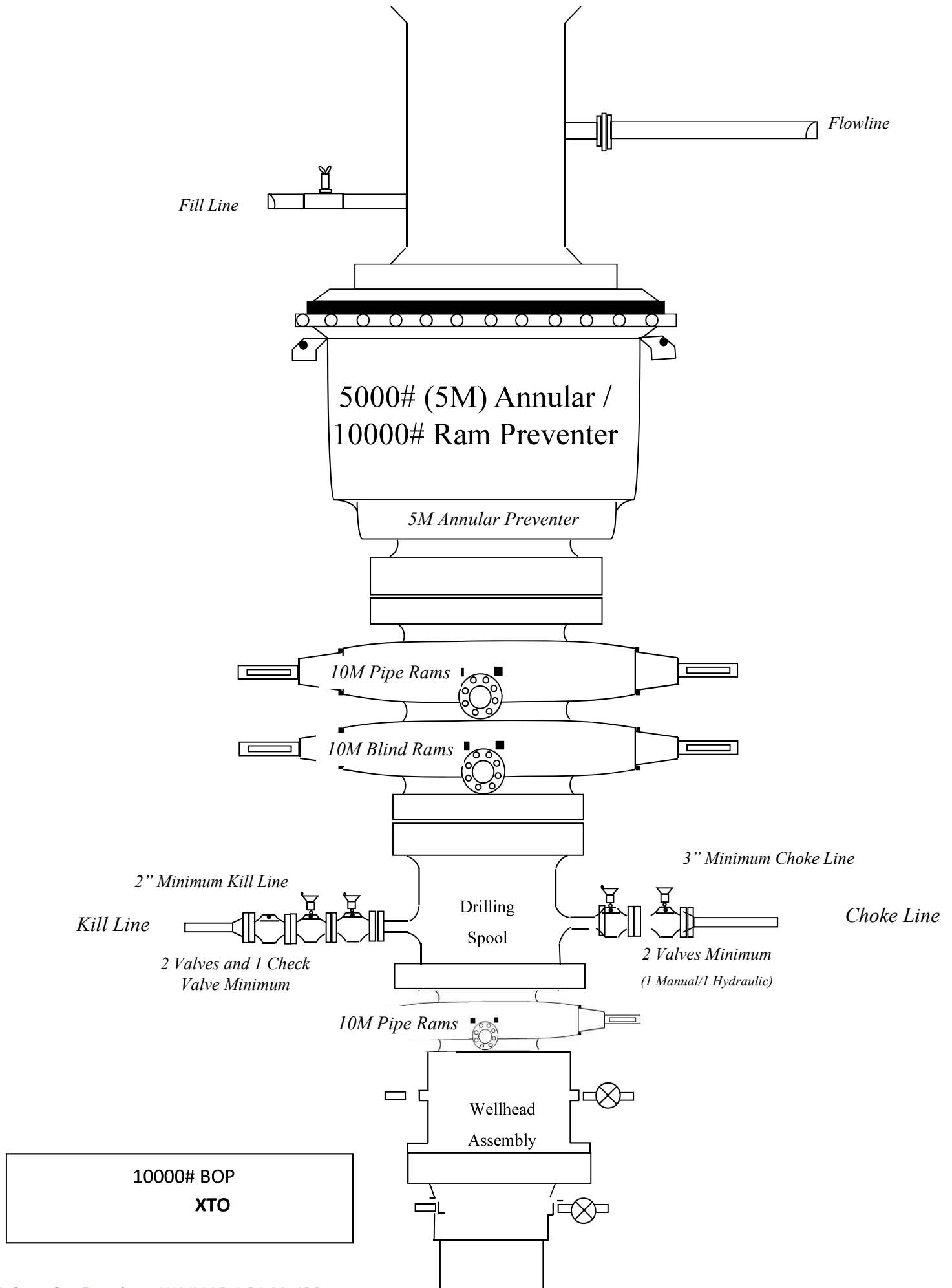
CONFIDENTIAL

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



10M Choke Manifold Diagram  
XTO

**Drilling Operations  
Choke Manifold  
10M Service**






U. S. Steel Tubular Products

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

11/29/2021 4:16:04 PM

				
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.

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U. S. Steel Tubular Products  
5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

11/8/2023 1:08:50 PM



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

- 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).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 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.).
- Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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connections@uss.com  
www.usstubular.com

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 519'	9.625	40	J-55	BTC	New	1.92	12.13	30.35
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.77	2.86	2.27
8.75	4000' – 8285.9'	7.625	29.7	HC L-80	Flush Joint	New	2.74	2.77	3.19
6.75	0' – 8185.9'	5.5	20	RY P-110	Semi-premium/ Freedom HTQ	New	1.26	2.74	2.45
6.75	8185.9' - 19467.12'	5.5	20	RY P-110	Semi-flush/ Talon HTQ	New	1.26	2.45	2.45

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 519'	9.625	40	J-55	BTC	New	1.92	12.13	30.35
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.77	2.86	2.27
8.75	4000' – 8285.9'	7.625	29.7	HC L-80	Flush Joint	New	2.74	2.77	3.19
6.75	0' – 8185.9'	5.5	20	RY P-110	Semi-premium/ Freedom HTQ	New	1.26	2.74	2.45
6.75	8185.9' - 19467.12'	5.5	20	RY P-110	Semi-flush/ Talon HTQ	New	1.26	2.45	2.45



## HYDROGEN SULFIDE (H<sub>2</sub>S) CONTINGENCY PLAN

**Assumed 100 ppm ROE = 3000'**

100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - o Detection of H<sub>2</sub>S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

### **Ignition of Gas source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). 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<sub>2</sub>S and SO<sub>2</sub>**

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

### **Contacting Authorities**

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

**CARLSBAD OFFICE – EDDY & LEA COUNTIES**

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

575-887-7329

**XTO PERSONNEL:**

Christopher Cha, Drilling Manager	432-701-1730
Matt Water, Drilling Superintendent	432-967-8203
Robert Bartels, Construction Foreman	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Mike Allen, Production Foreman	918-421-9056

**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	505-629-6116

**For Eddy County:**

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	505-629-6116

Well Plan Report - PLU Unit 13-24 PC 705H

Measured Depth: 19467.12 ft  
TVD RKB: 9155.00 ft  
Location  
Cartographic Reference System: New Mexico East - NAD 27  
Northing: 443268.30 ft  
Easting: 623475.00 ft  
RKB: 3145.00 ft  
Ground Level: 3113.00 ft  
North Reference: Grid  
Convergence Angle: 0.21 Deg

Plan Sections PLU Unit 13-24 PC 705H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
						Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1536.50	8.73	246.49	1534.81	-13.24	-30.43	2.00	2.00	0.00	0.00	2.00	2.00
5310.60	8.73	246.49	5265.19	-241.75	-555.71	0.00	0.00	0.00	0.00	0.00	0.00
5747.10	0.00	0.00	5700.00	-254.99	-586.15	-2.00	-2.00	0.00	0.00	2.00	2.00
8485.90	0.00	0.00	8438.80	-254.99	-586.15	0.00	0.00	0.00	0.00	0.00	0.00
9610.90	90.00	359.72	9155.00	461.20	-589.60	8.00	8.00	0.00	0.00	8.00	FTP 6
19417.12	90.00	359.72	9155.00	10267.30	-636.90	0.00	0.00	0.00	0.00	0.00	LTP 6
19467.12	90.00	359.72	9155.00	10317.30	-637.14	0.00	0.00	0.00	0.00	0.00	BHL 6

Position Uncertainty PLU Unit 13-24 PC 705H

Measured	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.220	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	1.259	0.000	0.627	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.000	0.986	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.346	0.000	2.108	0.000	1.344	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.372	0.000	2.503	0.000	1.701	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.404	0.000	2.888	0.000	2.059	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.441	0.000	3.267	0.000	2.417	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.482	0.000	3.642	0.000	2.775	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.527	0.000	4.014	0.000	3.133	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.576	0.000	4.384	0.000	3.491	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.629	0.000	4.752	0.000	3.849	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	246.490	1199.980	4.922	-0.000	4.419	0.000	2.684	0.000	5.061	0.000	4.261	4.261	131.123	MWD+IFR1+MS
1300.000	4.000	246.490	1299.838	5.699	-0.000	4.784	0.000	2.744	0.000	5.728	0.000	4.759	4.759	-32.300	MWD+IFR1+MS
1400.000	6.000	246.490	1399.452	6.395	-0.000	5.150	0.000	2.809	0.000	6.414	0.000	5.150	5.150	-24.247	MWD+IFR1+MS
1500.000	8.000	246.490	1498.702	7.033	-0.000	5.517	0.000	2.881	0.000	7.071	0.000	5.511	5.511	-20.134	MWD+IFR1+MS
1536.501	8.730	246.490	1534.814	7.140	-0.000	5.642	0.000	2.902	0.000	7.188	0.000	5.635	5.635	-19.984	MWD+IFR1+MS
1600.000	8.730	246.490	1597.577	7.314	-0.000	5.861	0.000	2.945	0.000	7.361	0.000	5.854	5.854	-19.855	MWD+IFR1+MS
1700.000	8.730	246.490	1696.419	7.594	-0.000	6.223	0.000	3.017	0.000	7.639	0.000	6.215	6.215	-19.244	MWD+IFR1+MS
1800.000	8.730	246.490	1795.260	7.889	-0.000	6.597	0.000	3.093	0.000	7.935	0.000	6.585	6.585	-18.261	MWD+IFR1+MS
1900.000	8.730	246.490	1894.102	8.191	-0.000	6.972	0.000	3.172	0.000	8.237	0.000	6.955	6.955	-17.244	MWD+IFR1+MS
2000.000	8.730	246.490	1992.943	8.499	-0.000	7.347	0.000	3.254	0.000	8.545	0.000	7.326	7.326	-16.193	MWD+IFR1+MS
2100.000	8.730	246.490	2091.785	8.812	-0.000	7.723	0.000	3.337	0.000	8.859	0.000	7.697	7.697	-15.109	MWD+IFR1+MS
2200.000	8.730	246.490	2190.626	9.130	-0.000	8.100	0.000	3.423	0.000	9.178	0.000	8.067	8.067	-13.991	MWD+IFR1+MS
2300.000	8.730	246.490	2289.467	9.451	-0.000	8.476	0.000	3.511	0.000	9.501	0.000	8.438	8.438	-12.842	MWD+IFR1+MS
2400.000	8.730	246.490	2388.309	9.777	-0.000	8.853	0.000	3.602	0.000	9.829	0.000	8.808	8.808	-11.661	MWD+IFR1+MS
2500.000	8.730	246.490	2487.150	10.105	-0.000	9.231	0.000	3.694	0.000	10.161	0.000	9.178	9.178	-10.452	MWD+IFR1+MS
2600.000	8.730	246.490	2585.992	10.437	-0.000	9.608	0.000	3.788	0.000	10.496	0.000	9.548	9.548	-9.217	MWD+IFR1+MS
2700.000	8.730	246.490	2684.833	10.772	-0.000	9.986	0.000	3.883	0.000	10.835	0.000	9.917	9.917	-7.958	MWD+IFR1+MS
2800.000	8.730	246.490	2783.675	11.109	-0.000	10.364	0.000	3.981	0.000	11.176	0.000	10.287	10.287	-6.678	MWD+IFR1+MS
2900.000	8.730	246.490	2882.516	11.449	-0.000	10.742	0.000	4.080	0.000	11.521	0.000	10.656	10.656	-5.383	MWD+IFR1+MS



Well Plan Report

3000.000	8.730	246.490	2981.358	11.790	-0.000	11.121	0.000	4.181	0.000	0.000	11.868	11.024	-4.075	MWD+IFR1+MS
3100.000	8.730	246.490	3080.199	12.134	-0.000	11.499	0.000	4.283	0.000	0.000	12.217	11.393	-2.759	MWD+IFR1+MS
3200.000	8.730	246.490	3179.041	12.479	-0.000	11.878	0.000	4.387	0.000	0.000	12.569	11.761	-1.440	MWD+IFR1+MS
3300.000	8.730	246.490	3277.882	12.826	-0.000	12.257	0.000	4.493	0.000	0.000	12.923	12.128	-0.123	MWD+IFR1+MS
3400.000	8.730	246.490	3376.723	13.175	-0.000	12.636	0.000	4.600	0.000	0.000	13.278	12.496	1.187	MWD+IFR1+MS
3500.000	8.730	246.490	3475.565	13.525	-0.000	13.015	0.000	4.708	0.000	0.000	13.636	12.863	2.486	MWD+IFR1+MS
3600.000	8.730	246.490	3574.406	13.876	-0.000	13.394	0.000	4.818	0.000	0.000	13.995	13.230	3.769	MWD+IFR1+MS
3700.000	8.730	246.490	3673.248	14.228	-0.000	13.773	0.000	4.930	0.000	0.000	14.356	13.596	5.032	MWD+IFR1+MS
3800.000	8.730	246.490	3772.089	14.581	-0.000	14.153	0.000	5.043	0.000	0.000	14.718	13.963	6.272	MWD+IFR1+MS
3900.000	8.730	246.490	3870.931	14.936	-0.000	14.532	0.000	5.158	0.000	0.000	15.082	14.329	7.485	MWD+IFR1+MS
4000.000	8.730	246.490	3969.772	15.291	-0.000	14.912	0.000	5.275	0.000	0.000	15.446	14.695	8.668	MWD+IFR1+MS
4100.000	8.730	246.490	4068.614	15.647	-0.000	15.291	0.000	5.393	0.000	0.000	15.812	15.060	9.818	MWD+IFR1+MS
4200.000	8.730	246.490	4167.455	16.004	-0.000	15.671	0.000	5.512	0.000	0.000	16.179	15.426	10.935	MWD+IFR1+MS
4300.000	8.730	246.490	4266.297	16.362	-0.000	16.050	0.000	5.633	0.000	0.000	16.547	15.791	12.016	MWD+IFR1+MS
4400.000	8.730	246.490	4365.138	16.721	-0.000	16.430	0.000	5.756	0.000	0.000	16.916	16.156	13.061	MWD+IFR1+MS
4500.000	8.730	246.490	4463.979	17.080	-0.000	16.810	0.000	5.881	0.000	0.000	17.286	16.521	14.069	MWD+IFR1+MS
4600.000	8.730	246.490	4562.821	17.440	-0.000	17.190	0.000	6.007	0.000	0.000	17.657	16.887	15.040	MWD+IFR1+MS
4700.000	8.730	246.490	4661.662	17.800	-0.000	17.570	0.000	6.135	0.000	0.000	18.028	17.251	15.974	MWD+IFR1+MS
4800.000	8.730	246.490	4760.504	18.161	-0.000	17.949	0.000	6.265	0.000	0.000	18.400	17.616	16.872	MWD+IFR1+MS
4900.000	8.730	246.490	4859.345	18.523	-0.000	18.329	0.000	6.396	0.000	0.000	18.773	17.981	17.733	MWD+IFR1+MS
5000.000	8.730	246.490	4958.187	18.885	-0.000	18.709	0.000	6.530	0.000	0.000	19.146	18.346	18.560	MWD+IFR1+MS
5100.000	8.730	246.490	5057.028	19.248	-0.000	19.089	0.000	6.665	0.000	0.000	19.519	18.711	19.353	MWD+IFR1+MS
5200.000	8.730	246.490	5155.870	19.611	-0.000	19.469	0.000	6.802	0.000	0.000	19.893	19.076	20.113	MWD+IFR1+MS
5300.000	8.730	246.490	5254.711	19.974	-0.000	19.849	0.000	6.940	0.000	0.000	20.268	19.441	20.840	MWD+IFR1+MS
5310.598	8.730	246.490	5265.186	20.012	-0.000	19.889	0.000	6.955	0.000	0.000	20.306	19.479	20.913	MWD+IFR1+MS
5400.000	6.942	246.490	5353.750	20.361	-0.000	20.219	0.000	7.082	0.000	0.000	20.641	19.809	20.781	MWD+IFR1+MS
5500.000	4.942	246.490	5453.207	20.819	-0.000	20.588	0.000	7.225	0.000	0.000	21.085	20.195	17.807	MWD+IFR1+MS
5600.000	2.942	246.490	5552.966	21.257	-0.000	20.950	0.000	7.363	0.000	0.000	21.535	20.573	14.881	MWD+IFR1+MS
5700.000	0.942	246.490	5652.903	21.662	-0.000	21.303	0.000	7.498	0.000	0.000	21.980	20.940	12.387	MWD+IFR1+MS
5747.099	0.000	0.000	5700.000	21.149	0.000	22.088	0.000	7.561	0.000	0.000	22.136	21.099	12.521	MWD+IFR1+MS
5800.000	0.000	0.000	5752.901	21.327	0.000	22.251	0.000	7.631	0.000	0.000	22.299	21.278	12.572	MWD+IFR1+MS
5900.000	0.000	0.000	5852.901	21.663	0.000	22.564	0.000	7.765	0.000	0.000	22.610	21.616	12.493	MWD+IFR1+MS
6000.000	0.000	0.000	5952.901	22.004	0.000	22.882	0.000	7.901	0.000	0.000	22.924	21.960	12.233	MWD+IFR1+MS

6100.000	0.000	0.000	6052.901	22.345	0.000	23.200	0.000	8.040	0.000	0.000	23.240	22.304	11.964	MWD+IFR1+MS
6200.000	0.000	0.000	6152.901	22.687	0.000	23.520	0.000	8.181	0.000	0.000	23.557	22.649	11.687	MWD+IFR1+MS
6300.000	0.000	0.000	6252.901	23.029	0.000	23.841	0.000	8.325	0.000	0.000	23.875	22.994	11.401	MWD+IFR1+MS
6400.000	0.000	0.000	6352.901	23.371	0.000	24.163	0.000	8.472	0.000	0.000	24.194	23.339	11.106	MWD+IFR1+MS
6500.000	0.000	0.000	6452.901	23.715	0.000	24.486	0.000	8.621	0.000	0.000	24.515	23.685	10.801	MWD+IFR1+MS
6600.000	0.000	0.000	6552.901	24.058	0.000	24.810	0.000	8.772	0.000	0.000	24.837	24.031	10.486	MWD+IFR1+MS
6700.000	0.000	0.000	6652.901	24.402	0.000	25.135	0.000	8.926	0.000	0.000	25.159	24.377	10.161	MWD+IFR1+MS
6800.000	0.000	0.000	6752.901	24.747	0.000	25.461	0.000	9.083	0.000	0.000	25.483	24.724	9.825	MWD+IFR1+MS
6900.000	0.000	0.000	6852.901	25.091	0.000	25.788	0.000	9.243	0.000	0.000	25.807	25.071	9.478	MWD+IFR1+MS
7000.000	0.000	0.000	6952.901	25.436	0.000	26.115	0.000	9.405	0.000	0.000	26.133	25.418	9.119	MWD+IFR1+MS
7100.000	0.000	0.000	7052.901	25.782	0.000	26.444	0.000	9.569	0.000	0.000	26.460	25.766	8.747	MWD+IFR1+MS
7200.000	0.000	0.000	7152.901	26.128	0.000	26.773	0.000	9.737	0.000	0.000	26.787	26.113	8.363	MWD+IFR1+MS
7300.000	0.000	0.000	7252.901	26.474	0.000	27.103	0.000	9.907	0.000	0.000	27.115	26.461	7.966	MWD+IFR1+MS
7400.000	0.000	0.000	7352.901	26.821	0.000	27.433	0.000	10.080	0.000	0.000	27.444	26.810	7.555	MWD+IFR1+MS
7500.000	0.000	0.000	7452.901	27.167	0.000	27.765	0.000	10.256	0.000	0.000	27.774	27.158	7.129	MWD+IFR1+MS
7600.000	0.000	0.000	7552.901	27.515	0.000	28.096	0.000	10.434	0.000	0.000	28.104	27.506	6.689	MWD+IFR1+MS
7700.000	0.000	0.000	7652.901	27.862	0.000	28.429	0.000	10.616	0.000	0.000	28.436	27.855	6.233	MWD+IFR1+MS
7800.000	0.000	0.000	7752.901	28.210	0.000	28.762	0.000	10.800	0.000	0.000	28.768	28.204	5.761	MWD+IFR1+MS
7900.000	0.000	0.000	7852.901	28.558	0.000	29.096	0.000	10.987	0.000	0.000	29.101	28.553	5.272	MWD+IFR1+MS
8000.000	0.000	0.000	7952.901	28.906	0.000	29.430	0.000	11.176	0.000	0.000	29.434	28.902	4.766	MWD+IFR1+MS
8100.000	0.000	0.000	8052.901	29.254	0.000	29.765	0.000	11.369	0.000	0.000	29.768	29.252	4.242	MWD+IFR1+MS
8200.000	0.000	0.000	8152.901	29.603	0.000	30.101	0.000	11.564	0.000	0.000	30.103	29.601	3.700	MWD+IFR1+MS
8300.000	0.000	0.000	8252.901	29.952	0.000	30.437	0.000	11.763	0.000	0.000	30.438	29.951	3.138	MWD+IFR1+MS
8400.000	0.000	0.000	8352.901	30.301	0.000	30.773	0.000	11.964	0.000	0.000	30.774	30.300	2.557	MWD+IFR1+MS
8485.902	0.000	0.000	8438.803	30.600	0.000	31.062	0.000	12.139	0.000	0.000	31.062	30.599	2.201	MWD+IFR1+MS
8500.000	1.128	359.724	8452.900	30.630	0.000	31.108	0.000	12.168	0.000	0.000	31.109	30.648	2.215	MWD+IFR1+MS
8600.000	9.128	359.724	8552.419	31.007	0.000	31.436	0.000	12.392	0.000	0.000	31.439	31.426	-28.281	MWD+IFR1+MS
8700.000	17.128	359.724	8649.727	31.798	0.000	31.756	0.000	12.760	0.000	0.000	33.017	31.750	93.415	MWD+IFR1+MS
8800.000	25.128	359.724	8742.929	32.072	0.000	32.060	0.000	13.364	0.000	0.000	34.412	32.050	93.299	MWD+IFR1+MS
8900.000	33.128	359.724	8830.211	31.879	0.000	32.346	0.000	14.263	0.000	0.000	35.594	32.332	93.305	MWD+IFR1+MS
9000.000	41.128	359.724	8909.876	31.288	0.000	32.611	0.000	15.464	0.000	0.000	36.555	32.594	93.377	MWD+IFR1+MS
9100.000	49.128	359.724	8980.371	30.392	0.000	32.856	0.000	16.935	0.000	0.000	37.298	32.835	93.510	MWD+IFR1+MS
9200.000	57.128	359.724	9040.325	29.308	0.000	33.080	0.000	18.617	0.000	0.000	37.834	33.055	93.706	MWD+IFR1+MS

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9300.000	65.128	359.724	9088.572	28.183	0.000	33.283	0.000	20.443	0.000	0.000	38.186	33.254	93.967	MWD+IFR1+MS
9400.000	73.128	359.724	9124.171	27.186	0.000	33.465	0.000	22.341	0.000	0.000	38.386	33.432	94.292	MWD+IFR1+MS
9500.000	81.128	359.724	9146.431	26.499	0.000	33.627	0.000	24.248	0.000	0.000	38.475	33.588	94.666	MWD+IFR1+MS
9600.000	89.128	359.724	9154.917	26.290	0.000	33.767	0.000	26.104	0.000	0.000	38.499	33.723	95.057	MWD+IFR1+MS
9610.902	90.000	359.724	9155.000	26.127	0.000	33.780	0.000	26.127	0.000	0.000	38.501	33.735	95.095	MWD+IFR1+MS
9700.000	90.000	359.724	9155.000	26.283	0.000	33.897	0.000	26.283	0.000	0.000	38.509	33.848	95.443	MWD+IFR1+MS
9800.000	90.000	359.724	9155.000	26.474	0.000	34.054	0.000	26.474	0.000	0.000	38.519	33.999	95.882	MWD+IFR1+MS
9900.000	90.000	359.724	9155.000	26.689	0.000	34.234	0.000	26.689	0.000	0.000	38.531	34.171	96.379	MWD+IFR1+MS
10000.000	90.000	359.724	9155.000	26.924	0.000	34.435	0.000	26.924	0.000	0.000	38.544	34.355	96.946	MWD+IFR1+MS
10100.000	90.000	359.724	9155.000	27.180	0.000	34.657	0.000	27.180	0.000	0.000	38.558	34.578	97.601	MWD+IFR1+MS
10200.000	90.000	359.724	9155.000	27.456	0.000	34.900	0.000	27.456	0.000	0.000	38.575	34.811	98.366	MWD+IFR1+MS
10300.000	90.000	359.724	9155.000	27.752	0.000	35.164	0.000	27.752	0.000	0.000	38.594	35.062	99.272	MWD+IFR1+MS
10400.000	90.000	359.724	9155.000	28.066	0.000	35.447	0.000	28.066	0.000	0.000	38.617	35.330	100.359	MWD+IFR1+MS
10500.000	90.000	359.724	9155.000	28.399	0.000	35.750	0.000	28.399	0.000	0.000	38.643	35.615	101.687	MWD+IFR1+MS
10600.000	90.000	359.724	9155.000	28.749	0.000	36.072	0.000	28.749	0.000	0.000	38.675	35.913	103.340	MWD+IFR1+MS
10700.000	90.000	359.724	9155.000	29.116	0.000	36.412	0.000	29.116	0.000	0.000	38.713	36.224	105.439	MWD+IFR1+MS
10800.000	90.000	359.724	9155.000	29.500	0.000	36.771	0.000	29.500	0.000	0.000	38.763	36.543	108.161	MWD+IFR1+MS
10900.000	90.000	359.724	9155.000	29.899	0.000	37.146	0.000	29.899	0.000	0.000	38.827	36.864	111.757	MWD+IFR1+MS
11000.000	90.000	359.724	9155.000	30.313	0.000	37.539	0.000	30.313	0.000	0.000	38.915	37.179	116.545	MWD+IFR1+MS
11100.000	90.000	359.724	9155.000	30.742	0.000	37.948	0.000	30.742	0.000	0.000	39.039	37.475	122.806	MWD+IFR1+MS
11200.000	90.000	359.724	9155.000	31.184	0.000	38.373	0.000	31.184	0.000	0.000	39.214	37.736	130.459	MWD+IFR1+MS
11300.000	90.000	359.724	9155.000	31.640	0.000	38.813	0.000	31.640	0.000	0.000	39.455	37.948	-41.303	MWD+IFR1+MS
11400.000	90.000	359.724	9155.000	32.109	0.000	39.268	0.000	32.109	0.000	0.000	39.763	38.108	-33.715	MWD+IFR1+MS
11500.000	90.000	359.724	9155.000	32.589	0.000	39.737	0.000	32.589	0.000	0.000	40.130	38.224	-27.542	MWD+IFR1+MS
11600.000	90.000	359.724	9155.000	33.082	0.000	40.220	0.000	33.082	0.000	0.000	40.541	38.310	-22.832	MWD+IFR1+MS
11700.000	90.000	359.724	9155.000	33.585	0.000	40.717	0.000	33.585	0.000	0.000	40.986	38.375	-19.296	MWD+IFR1+MS
11800.000	90.000	359.724	9155.000	34.099	0.000	41.226	0.000	34.099	0.000	0.000	41.458	38.428	-16.619	MWD+IFR1+MS
11900.000	90.000	359.724	9155.000	34.623	0.000	41.748	0.000	34.623	0.000	0.000	41.951	38.472	-14.555	MWD+IFR1+MS
12000.000	90.000	359.724	9155.000	35.157	0.000	42.281	0.000	35.157	0.000	0.000	42.462	38.510	-12.929	MWD+IFR1+MS
12100.000	90.000	359.724	9155.000	35.701	0.000	42.826	0.000	35.701	0.000	0.000	42.990	38.544	-11.623	MWD+IFR1+MS
12200.000	90.000	359.724	9155.000	36.253	0.000	43.382	0.000	36.253	0.000	0.000	43.531	38.576	-10.555	MWD+IFR1+MS
12300.000	90.000	359.724	9155.000	36.813	0.000	43.949	0.000	36.813	0.000	0.000	44.086	38.606	-9.668	MWD+IFR1+MS
12400.000	90.000	359.724	9155.000	37.382	0.000	44.526	0.000	37.382	0.000	0.000	44.653	38.634	-8.919	MWD+IFR1+MS

12500.000	90.000	359.724	9155.000	37.958	0.000	45.112	0.000	37.958	0.000	45.231	38.661	-8.281	MWD+IFR1+MS
12600.000	90.000	359.724	9155.000	38.542	0.000	45.709	0.000	38.542	0.000	45.819	38.688	-7.730	MWD+IFR1+MS
12700.000	90.000	359.724	9155.000	39.132	0.000	46.314	0.000	39.132	0.000	46.418	38.715	-7.250	MWD+IFR1+MS
12800.000	90.000	359.724	9155.000	39.730	0.000	46.928	0.000	39.730	0.000	47.026	38.741	-6.828	MWD+IFR1+MS
12900.000	90.000	359.724	9155.000	40.334	0.000	47.550	0.000	40.334	0.000	47.643	38.767	-6.455	MWD+IFR1+MS
13000.000	90.000	359.724	9155.000	40.943	0.000	48.180	0.000	40.943	0.000	48.269	38.793	-6.122	MWD+IFR1+MS
13100.000	90.000	359.724	9155.000	41.559	0.000	48.818	0.000	41.559	0.000	48.903	38.819	-5.824	MWD+IFR1+MS
13200.000	90.000	359.724	9155.000	42.181	0.000	49.464	0.000	42.181	0.000	49.545	38.845	-5.555	MWD+IFR1+MS
13300.000	90.000	359.724	9155.000	42.808	0.000	50.117	0.000	42.808	0.000	50.194	38.872	-5.311	MWD+IFR1+MS
13400.000	90.000	359.724	9155.000	43.439	0.000	50.776	0.000	43.439	0.000	50.851	38.899	-5.089	MWD+IFR1+MS
13500.000	90.000	359.724	9155.000	44.076	0.000	51.442	0.000	44.076	0.000	51.514	38.926	-4.886	MWD+IFR1+MS
13600.000	90.000	359.724	9155.000	44.718	0.000	52.115	0.000	44.718	0.000	52.184	38.953	-4.699	MWD+IFR1+MS
13700.000	90.000	359.724	9155.000	45.364	0.000	52.794	0.000	45.364	0.000	52.860	38.981	-4.528	MWD+IFR1+MS
13800.000	90.000	359.724	9155.000	46.014	0.000	53.478	0.000	46.014	0.000	53.542	39.009	-4.369	MWD+IFR1+MS
13900.000	90.000	359.724	9155.000	46.669	0.000	54.169	0.000	46.669	0.000	54.230	39.037	-4.222	MWD+IFR1+MS
14000.000	90.000	359.724	9155.000	47.327	0.000	54.864	0.000	47.327	0.000	54.924	39.066	-4.085	MWD+IFR1+MS
14100.000	90.000	359.724	9155.000	47.990	0.000	55.565	0.000	47.990	0.000	55.623	39.095	-3.958	MWD+IFR1+MS
14200.000	90.000	359.724	9155.000	48.656	0.000	56.271	0.000	48.656	0.000	56.328	39.125	-3.839	MWD+IFR1+MS
14300.000	90.000	359.724	9155.000	49.325	0.000	56.982	0.000	49.325	0.000	57.037	39.155	-3.727	MWD+IFR1+MS
14400.000	90.000	359.724	9155.000	49.998	0.000	57.698	0.000	49.998	0.000	57.751	39.185	-3.623	MWD+IFR1+MS
14500.000	90.000	359.724	9155.000	50.674	0.000	58.418	0.000	50.674	0.000	58.469	39.216	-3.524	MWD+IFR1+MS
14600.000	90.000	359.724	9155.000	51.353	0.000	59.142	0.000	51.353	0.000	59.192	39.247	-3.432	MWD+IFR1+MS
14700.000	90.000	359.724	9155.000	52.035	0.000	59.871	0.000	52.035	0.000	59.920	39.279	-3.344	MWD+IFR1+MS
14800.000	90.000	359.724	9155.000	52.720	0.000	60.603	0.000	52.720	0.000	60.651	39.311	-3.262	MWD+IFR1+MS
14900.000	90.000	359.724	9155.000	53.407	0.000	61.340	0.000	53.407	0.000	61.387	39.344	-3.184	MWD+IFR1+MS
15000.000	90.000	359.724	9155.000	54.098	0.000	62.080	0.000	54.098	0.000	62.126	39.377	-3.109	MWD+IFR1+MS
15100.000	90.000	359.724	9155.000	54.791	0.000	62.824	0.000	54.791	0.000	62.869	39.410	-3.039	MWD+IFR1+MS
15200.000	90.000	359.724	9155.000	55.486	0.000	63.572	0.000	55.486	0.000	63.615	39.444	-2.972	MWD+IFR1+MS
15300.000	90.000	359.724	9155.000	56.184	0.000	64.322	0.000	56.184	0.000	64.365	39.479	-2.908	MWD+IFR1+MS
15400.000	90.000	359.724	9155.000	56.883	0.000	65.076	0.000	56.883	0.000	65.118	39.514	-2.848	MWD+IFR1+MS
15500.000	90.000	359.724	9155.000	57.586	0.000	65.834	0.000	57.586	0.000	65.874	39.549	-2.790	MWD+IFR1+MS
15600.000	90.000	359.724	9155.000	58.290	0.000	66.594	0.000	58.290	0.000	66.633	39.585	-2.734	MWD+IFR1+MS
15700.000	90.000	359.724	9155.000	58.996	0.000	67.357	0.000	58.996	0.000	67.396	39.621	-2.682	MWD+IFR1+MS

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15800.000	90.000	359.724	9155.000	59.704	0.000	68.123	0.000	59.704	0.000	68.161	39.658	-2.631	MWD+IFR1+MS
15900.000	90.000	359.724	9155.000	60.414	0.000	68.892	0.000	60.414	0.000	68.929	39.695	-2.582	MWD+IFR1+MS
16000.000	90.000	359.724	9155.000	61.126	0.000	69.663	0.000	61.126	0.000	69.700	39.733	-2.536	MWD+IFR1+MS
16100.000	90.000	359.724	9155.000	61.840	0.000	70.437	0.000	61.840	0.000	70.473	39.771	-2.491	MWD+IFR1+MS
16200.000	90.000	359.724	9155.000	62.555	0.000	71.213	0.000	62.555	0.000	71.249	39.810	-2.448	MWD+IFR1+MS
16300.000	90.000	359.724	9155.000	63.272	0.000	71.992	0.000	63.272	0.000	72.027	39.849	-2.407	MWD+IFR1+MS
16400.000	90.000	359.724	9155.000	63.991	0.000	72.773	0.000	63.991	0.000	72.807	39.888	-2.367	MWD+IFR1+MS
16500.000	90.000	359.724	9155.000	64.711	0.000	73.557	0.000	64.711	0.000	73.590	39.928	-2.329	MWD+IFR1+MS
16600.000	90.000	359.724	9155.000	65.433	0.000	74.342	0.000	65.433	0.000	74.375	39.969	-2.292	MWD+IFR1+MS
16700.000	90.000	359.724	9155.000	66.156	0.000	75.130	0.000	66.156	0.000	75.162	40.010	-2.257	MWD+IFR1+MS
16800.000	90.000	359.724	9155.000	66.881	0.000	75.920	0.000	66.881	0.000	75.951	40.051	-2.223	MWD+IFR1+MS
16900.000	90.000	359.724	9155.000	67.606	0.000	76.711	0.000	67.606	0.000	76.743	40.093	-2.189	MWD+IFR1+MS
17000.000	90.000	359.724	9155.000	68.334	0.000	77.505	0.000	68.334	0.000	77.536	40.136	-2.157	MWD+IFR1+MS
17100.000	90.000	359.724	9155.000	69.062	0.000	78.301	0.000	69.062	0.000	78.331	40.179	-2.127	MWD+IFR1+MS
17200.000	90.000	359.724	9155.000	69.792	0.000	79.098	0.000	69.792	0.000	79.127	40.222	-2.097	MWD+IFR1+MS
17300.000	90.000	359.724	9155.000	70.522	0.000	79.897	0.000	70.522	0.000	79.926	40.266	-2.068	MWD+IFR1+MS
17400.000	90.000	359.724	9155.000	71.254	0.000	80.698	0.000	71.254	0.000	80.726	40.310	-2.040	MWD+IFR1+MS
17500.000	90.000	359.724	9155.000	71.987	0.000	81.500	0.000	71.987	0.000	81.528	40.355	-2.013	MWD+IFR1+MS
17600.000	90.000	359.724	9155.000	72.722	0.000	82.304	0.000	72.722	0.000	82.332	40.400	-1.986	MWD+IFR1+MS
17700.000	90.000	359.724	9155.000	73.457	0.000	83.110	0.000	73.457	0.000	83.137	40.445	-1.961	MWD+IFR1+MS
17800.000	90.000	359.724	9155.000	74.193	0.000	83.917	0.000	74.193	0.000	83.944	40.491	-1.936	MWD+IFR1+MS
17900.000	90.000	359.724	9155.000	74.930	0.000	84.725	0.000	74.930	0.000	84.752	40.538	-1.912	MWD+IFR1+MS
18000.000	90.000	359.724	9155.000	75.668	0.000	85.535	0.000	75.668	0.000	85.561	40.585	-1.889	MWD+IFR1+MS
18100.000	90.000	359.724	9155.000	76.407	0.000	86.346	0.000	76.407	0.000	86.372	40.632	-1.866	MWD+IFR1+MS
18200.000	90.000	359.724	9155.000	77.147	0.000	87.159	0.000	77.147	0.000	87.185	40.680	-1.844	MWD+IFR1+MS
18300.000	90.000	359.724	9155.000	77.888	0.000	87.973	0.000	77.888	0.000	87.998	40.728	-1.823	MWD+IFR1+MS
18400.000	90.000	359.724	9155.000	78.630	0.000	88.788	0.000	78.630	0.000	88.813	40.777	-1.802	MWD+IFR1+MS
18500.000	90.000	359.724	9155.000	79.373	0.000	89.605	0.000	79.373	0.000	89.629	40.826	-1.782	MWD+IFR1+MS
18600.000	90.000	359.724	9155.000	80.116	0.000	90.422	0.000	80.116	0.000	90.447	40.876	-1.762	MWD+IFR1+MS
18700.000	90.000	359.724	9155.000	80.860	0.000	91.241	0.000	80.860	0.000	91.265	40.926	-1.743	MWD+IFR1+MS
18800.000	90.000	359.724	9155.000	81.605	0.000	92.061	0.000	81.605	0.000	92.085	40.977	-1.724	MWD+IFR1+MS
18900.000	90.000	359.724	9155.000	82.351	0.000	92.882	0.000	82.351	0.000	92.906	41.028	-1.706	MWD+IFR1+MS
19000.000	90.000	359.724	9155.000	83.097	0.000	93.705	0.000	83.097	0.000	93.728	41.079	-1.688	MWD+IFR1+MS

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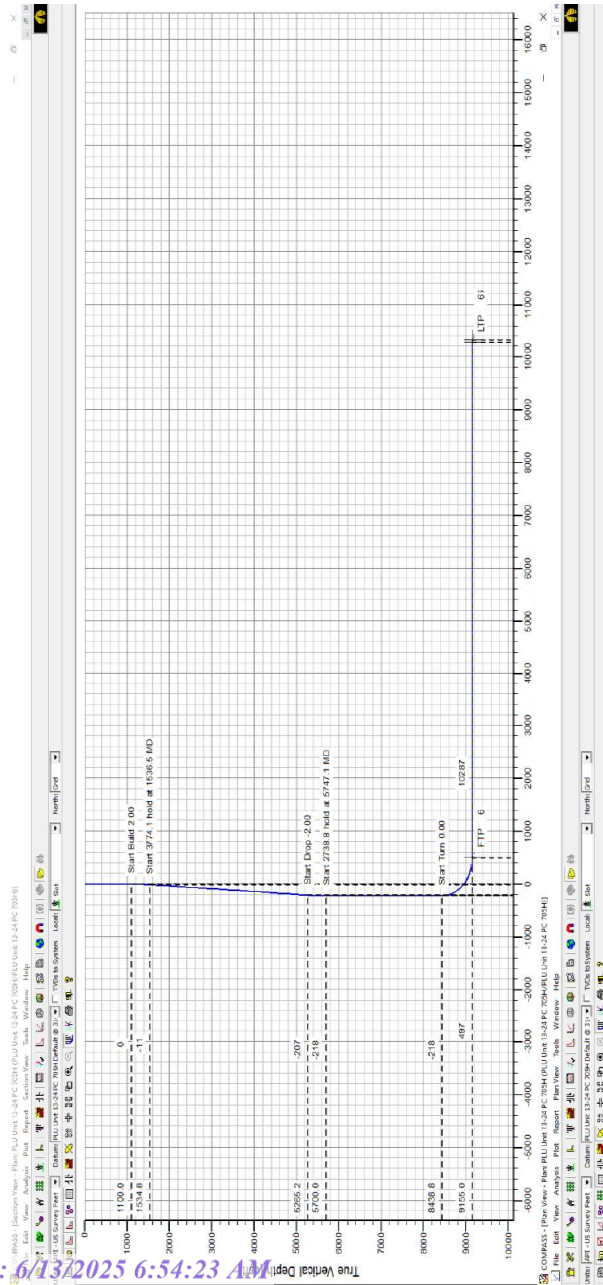
19100.000	90.000	359.724	9155.000	83.844	0.000	94.528	0.000	83.844	0.000	94.551	41.131	-1.671	MWD+IFR1+MS
19200.000	90.000	359.724	9155.000	84.592	0.000	95.352	0.000	84.592	0.000	95.375	41.184	-1.654	MWD+IFR1+MS
19300.000	90.000	359.724	9155.000	85.340	0.000	96.177	0.000	85.340	0.000	96.200	41.236	-1.637	MWD+IFR1+MS
19400.000	90.000	359.724	9155.000	86.089	0.000	97.004	0.000	86.089	0.000	97.026	41.289	-1.621	MWD+IFR1+MS
19417.116	90.000	359.724	9155.000	86.217	0.000	97.145	0.000	86.217	0.000	97.166	41.299	-1.618	MWD+IFR1+MS
19467.120	90.000	359.724	9155.000	86.591	0.000	97.557	0.000	86.591	0.000	97.578	41.325	-1.611	MWD+IFR1+MS

PLU Unit 13-24 PC 705H

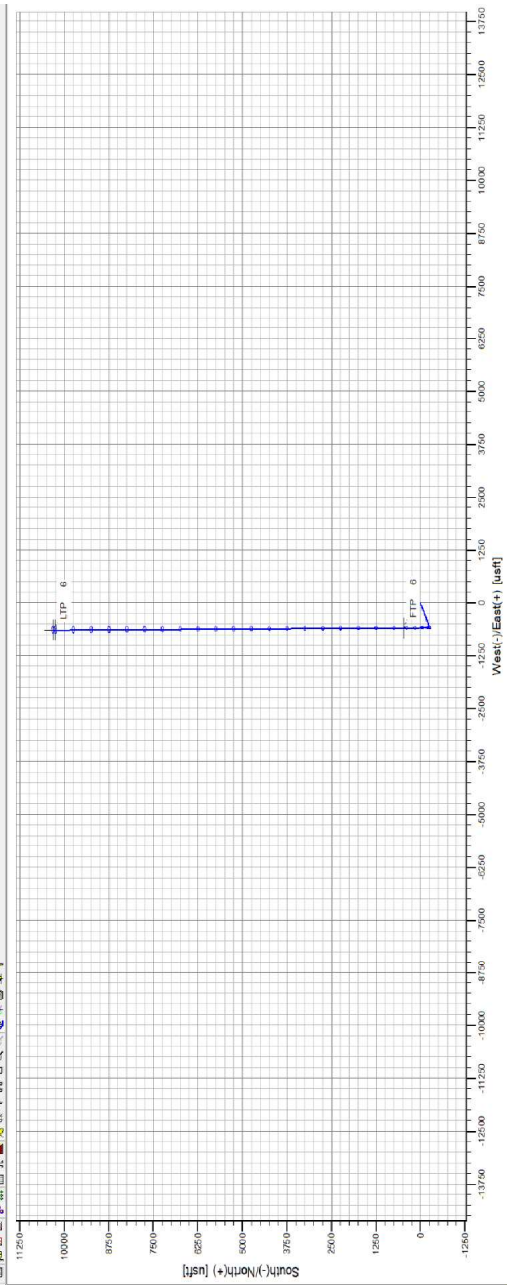
Plan Targets		Measured Depth			Grid Northing		Grid Easting		TVD MSL		Target Shape	
Target Name			(ft)		(ft)		(ft)		(ft)			
FTP 6			9610.90		443729.50		622885.40		6010.00		CIRCLE	
BHL 6			19467.12		453585.60		622837.80		6010.00		CIRCLE	
LTP 6			19417.12		453535.60		622838.10		6010.00		CIRCLE	



# Poker Lake Unit 13-24 Pierce Canyon 705H



Formation	TVDSS (feet)	TVD (feet)
Rustler	2,726'	419'
Salado	2,504'	641'
Base of Salt	3'	3,148'
Delaware	-205'	3,350'
Cherry Canyon	-1,095'	4,240'
Brushy Canyon	-2,639'	5,784'
Bone Spring Lm.	-3,947'	7,092'
Avalon Shale	-4,071'	7,216'
Lower Avalon Shale	-4,624'	7,769'
1st Bone Spring Lime	-4,788'	7,933'
1st Bone Spring Sand	-4,935'	8,080'
2nd Bone Spring Shale	-5,200'	8,345'
2nd Bone Spring Lime	-5,267'	8,412'
2nd Bone Spring Sand	-5,799'	8,944'
Landing	-6,010'	9,155'





### **Cement Variance Request**

#### **Intermediate Casing:**

XTO requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5784') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

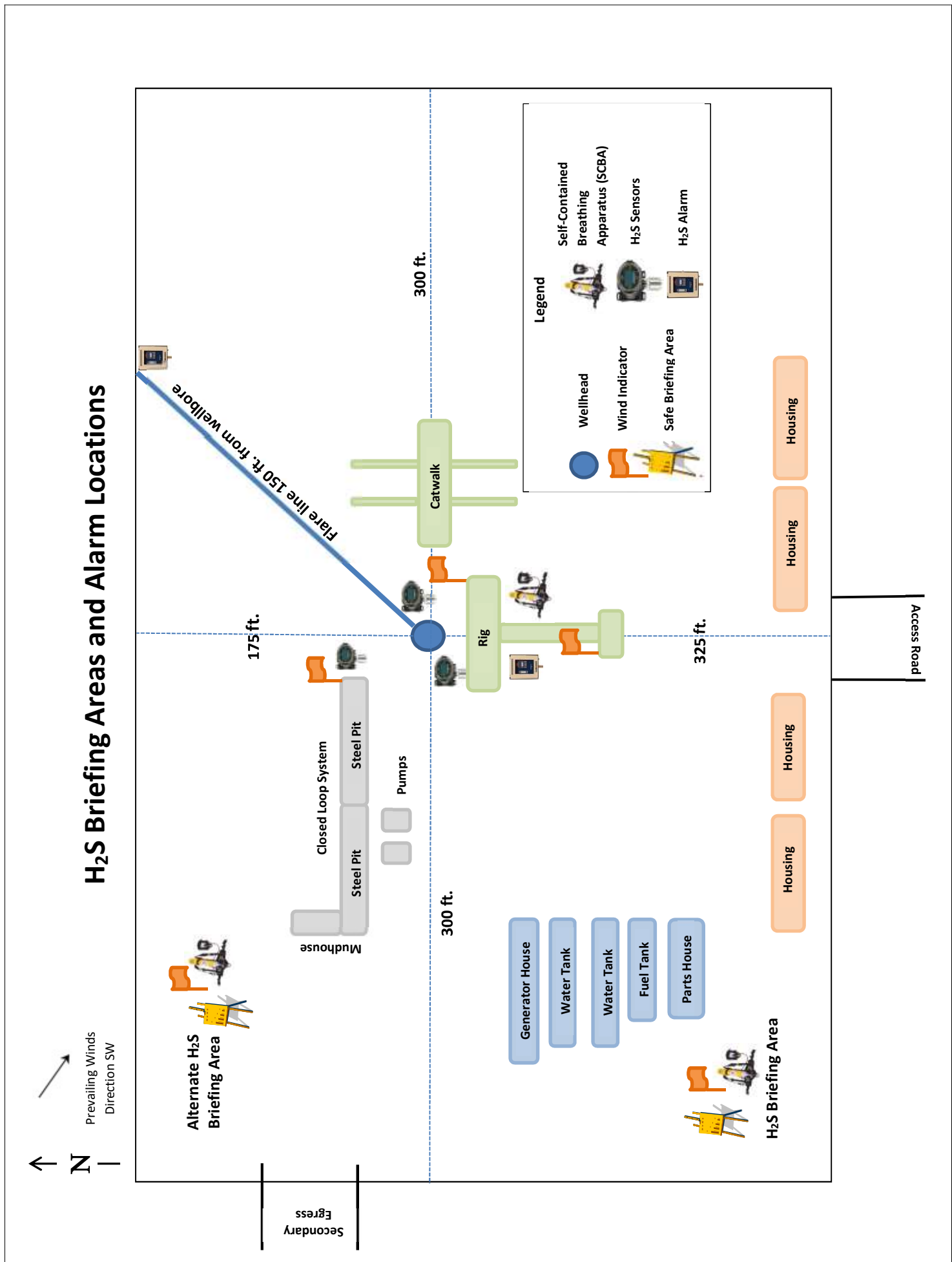
#### **Production Casing:**

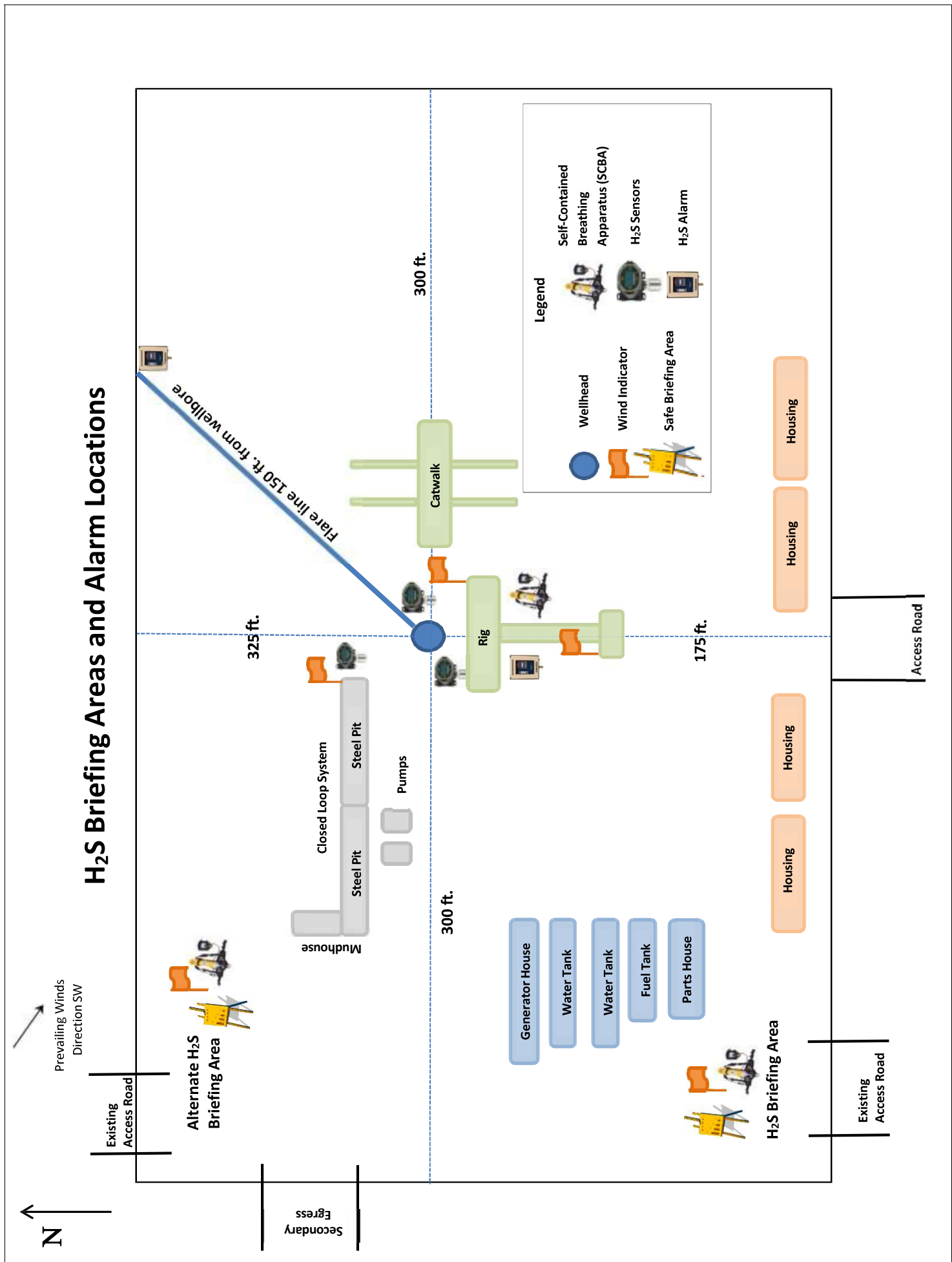
XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling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



HBE0000479

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





State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

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

### **Section 1 – Plan Description** **Effective May 25, 2021**

**I. Operator:** XTO Permian Operating, LLC **OGRID:** 373075 **Date:** 12/18/2024

**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
PLU 13-1 PC 507H	TBD	H 13 24S 29E	2270 FNL 995 FEL	500	100	2,000	500	3,000	750
PLU 13-1 PC 705H	TBD	G 13 24S 29E	2420 FNL 1596 FEL	1,000	100	2,000	250	1,750	250
PLU 13-1 PC 707H	TBD	H 13 24S 29E	2270 FNL 1055 FEL	1,250	100	2,500	500	2,250	250
PLU 13-1 PC 708H	TBD	H 13 24S 29E	2270 FNL 965 FEL	1,000	100	2,000	250	1,750	250
PLU 13-1 PC 805H	TBD	G 13 24S 29E	2420 FNL 1656 FEL	1,000	100	2,500	250	1,000	100
PLU 13-1 PC 806H	TBD	G 13 24S 29E	2420 FNL 1506 FEL	1,000	100	2,500	250	1,000	100
PLU 13-24 PC 705H	TBD	G 13 24S 29E	2420 FNL 1566 FEL	1,500	100	3,000	500	2,500	500
PLU 13-24 PC 707H	TBD	H 13 24S 29E	2270 FNL 1025 FEL	1,750	150	3,250	750	2,750	500
PLU 13-24 PC 708H	TBD	H 13 24S 29E	2270 FNL 935 FEL	1,750	150	3,250	750	2,750	500
PLU 13-24 PC 805H	TBD	G 13 24S 29E	2420 FNL 1626 FEL	1,250	100	3,000	500	1,250	150
PLU 13-24 PC 806H	TBD	G 13 24S 29E	2420 FNL 1536 FEL	1,500	100	3,500	750	1,500	250

Well name abbreviations to save space: PLU = Poker Lake Unit. PC = Pierce Canyon

**IV. Central Delivery Point Name:** PLU 13 PC CTBW and PLU 13 PC CTBE [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
PLU 13-1 PC 507H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-1 PC 705H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-1 PC 707H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-1 PC 708H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-1 PC 805H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-1 PC 806H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-24 PC 705H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-24 PC 707H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-24 PC 708H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-24 PC 805H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026
PLU 13-24 PC 806H	TBD	Aug-2025	TBD	Jan-2026	TBD	May-2026

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

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

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

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

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

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

### **IX. Anticipated Natural Gas Production:**

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

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

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

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

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

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

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

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



### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**


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

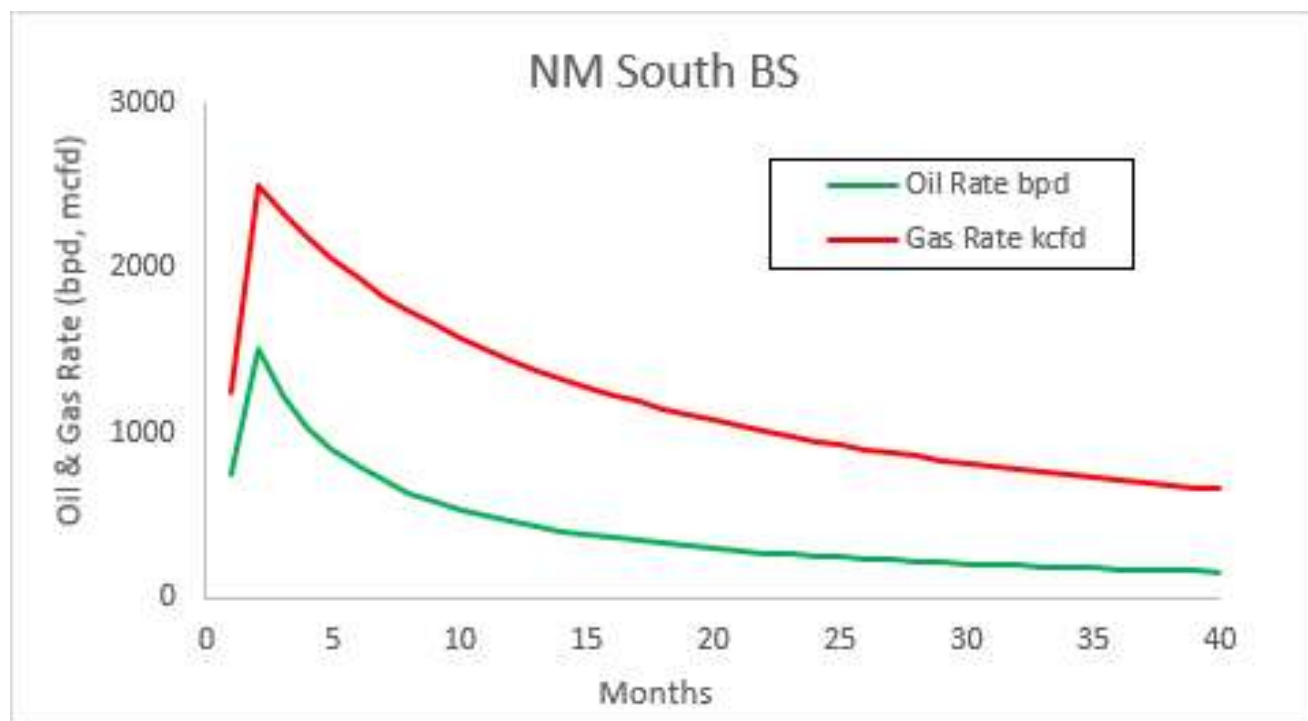
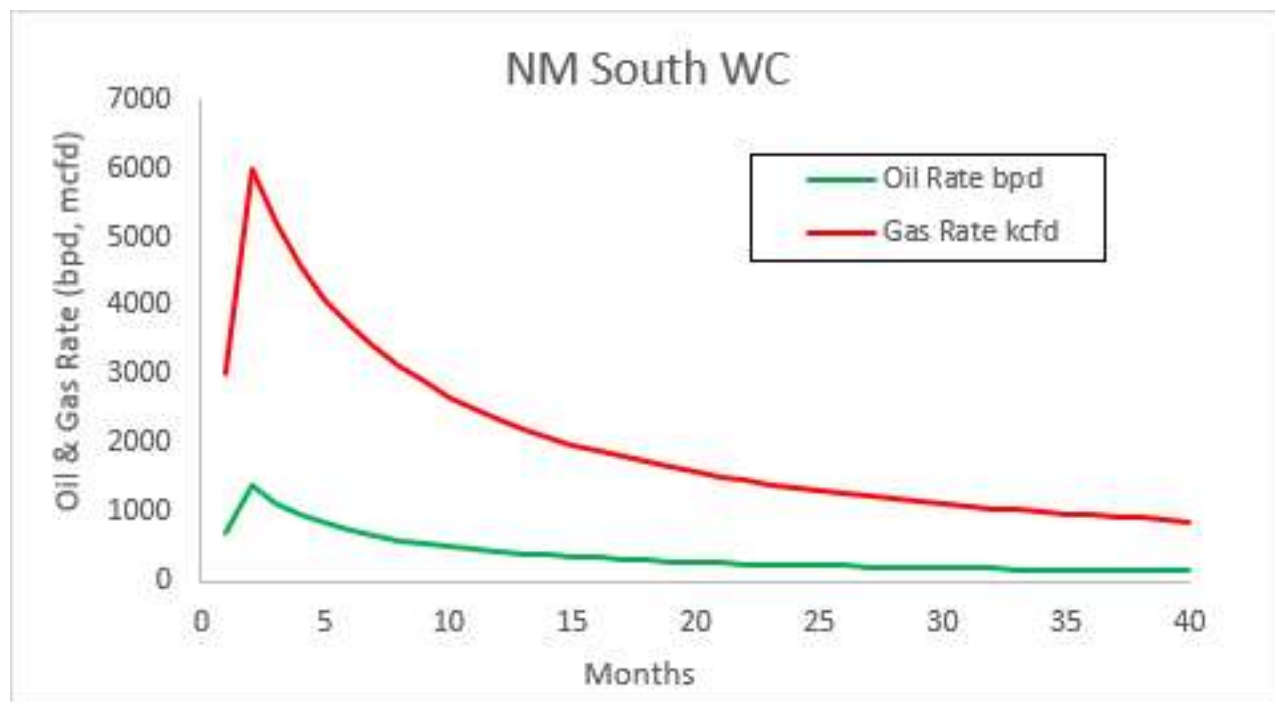
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit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

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

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

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

Signature: 
Printed Name: Manoj Venkatesh
Title: Permitting Analyst
E-mail Address: manoj.venkatesh@exxonmobil.com
Date: 12/18/2024
Phone: +1-832-832-8071
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:



## VI. Separation Equipment:

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

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

## VII. Operational Practices

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

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

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

#### VIII. Best Management Practices during Maintenance

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

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

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

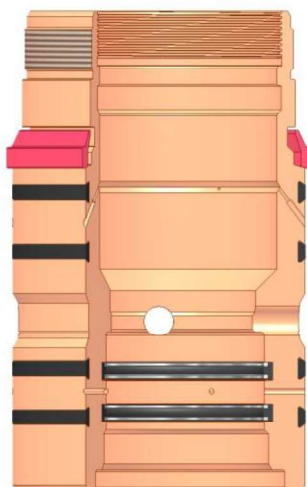
**1. Cement Program**

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

**2. Offline Cementing Procedure**

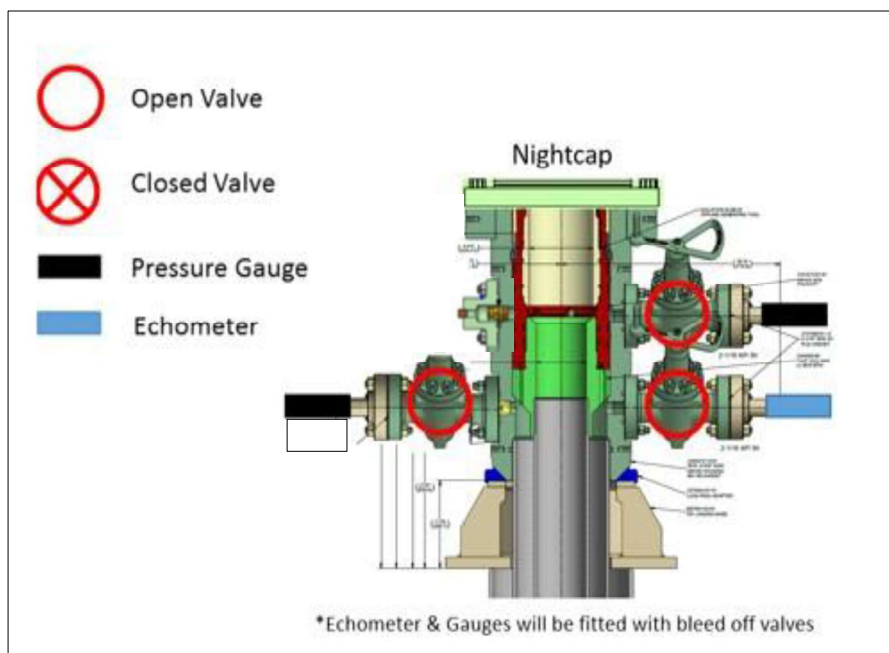
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



Annular packoff with both external and internal seals

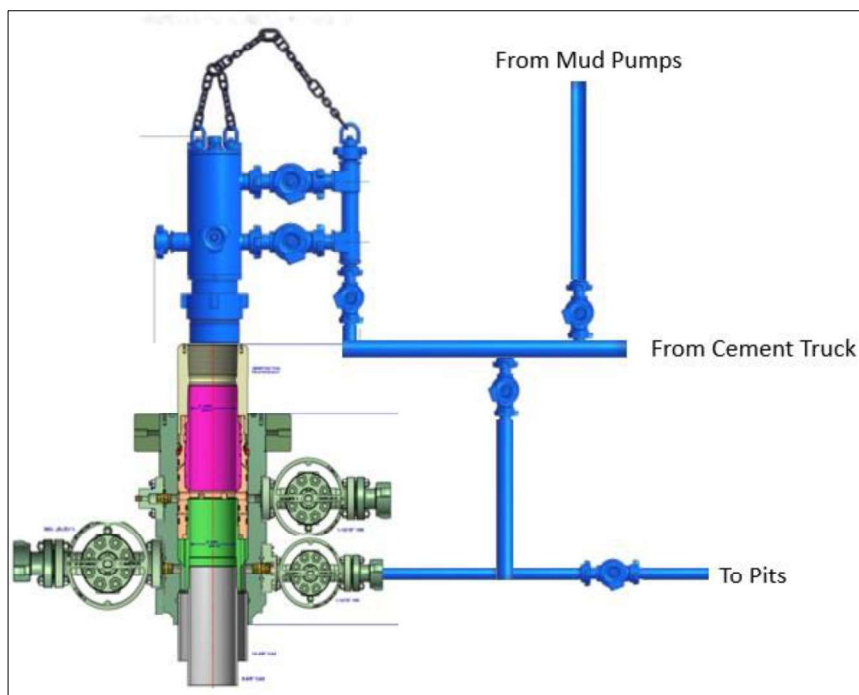
## XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
  - a. Well Control Plan
    - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
    - ii. Rig pumps or a 3<sup>rd</sup> 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.

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

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

**Background**

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

**Supporting Documentation**

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

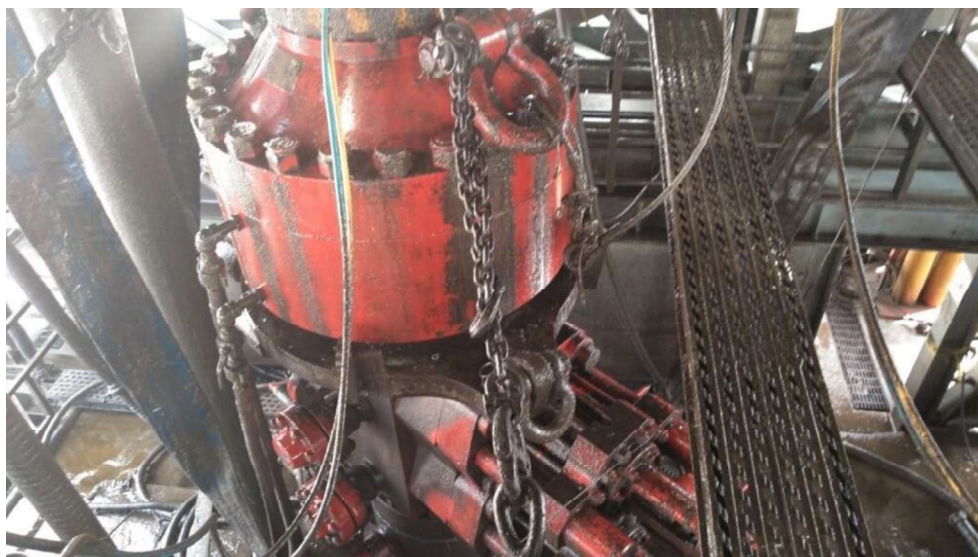


Figure 1: Winch System attached to BOP Stack

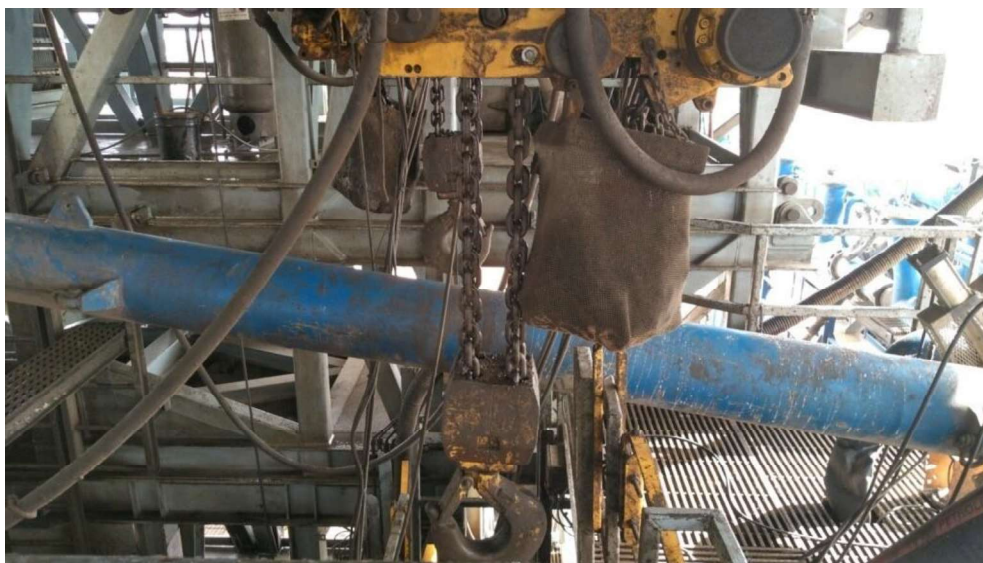


Figure 2: BOP Winch System

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

62 API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>a,c</sup> psig (MPa)	Pressure Test—High Pressure <sup>a,c</sup>	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer <sup>b</sup>	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 <sup>b,d</sup>	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 <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes <sup>e</sup>	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	
<sup>a</sup> 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. <sup>b</sup> Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program. <sup>c</sup> 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. <sup>d</sup> 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. <sup>e</sup> Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.			

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

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

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

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

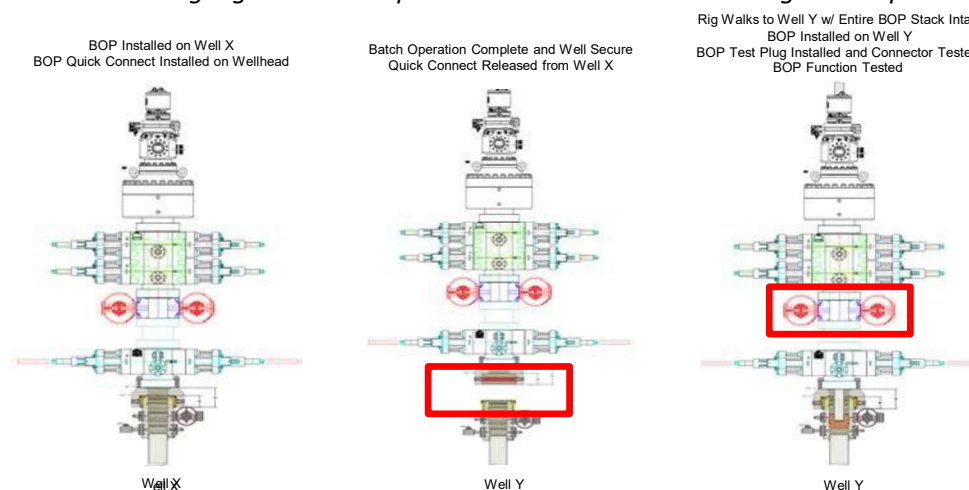
### **Procedures**

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



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

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



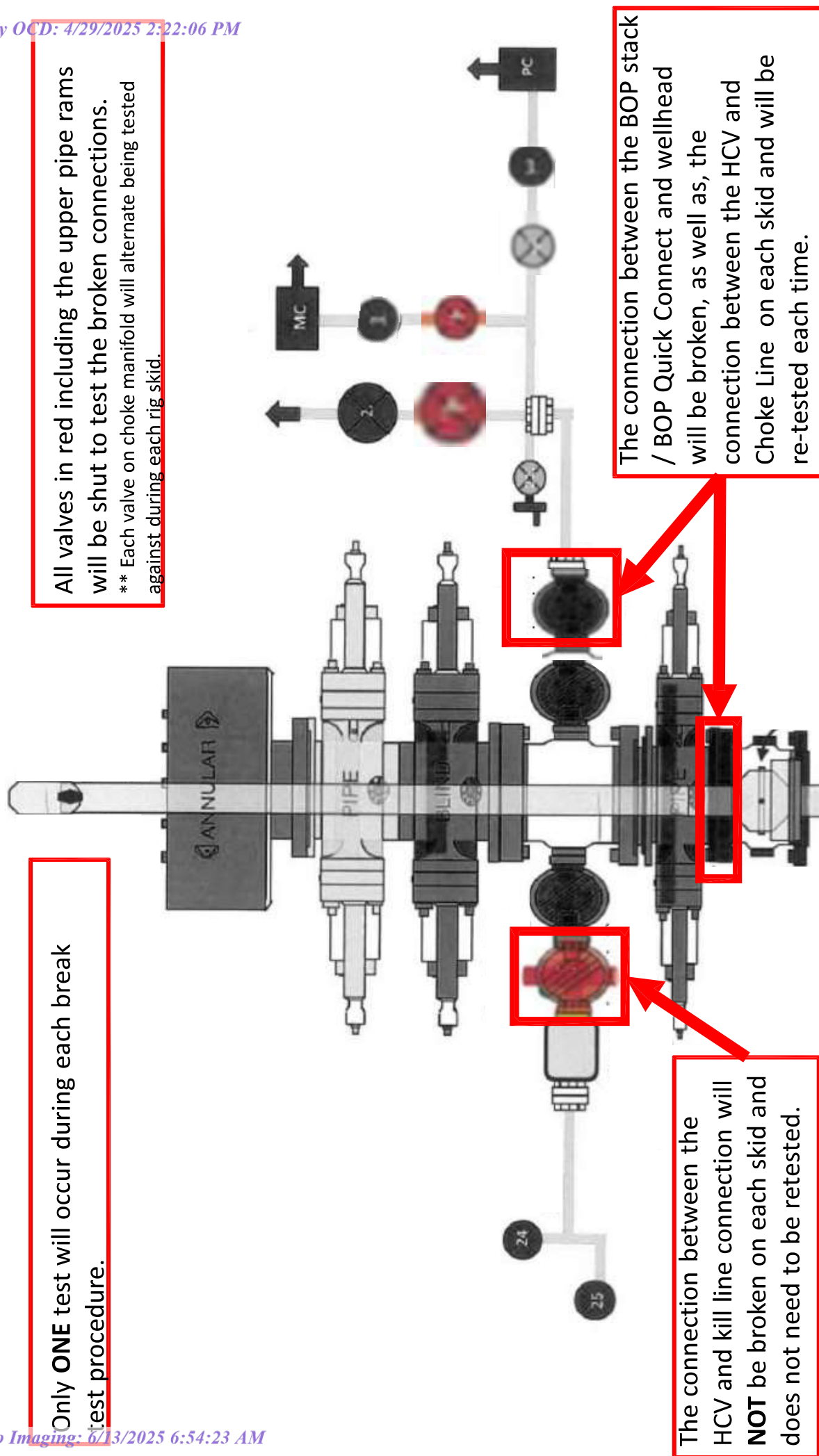
### Summary

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

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

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

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



**BLACK GOLD®**

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

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

*NEW CHOKE HOSE  
INSTALLED 02-10-2024*

## CERTIFICATE OF CONFORMANCE

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

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

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

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

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





H3-15/16

1/25/2024 11:48:06 AM

# TEST REPORT

**CUSTOMER**

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

**TEST OBJECT**

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

**TEST INFORMATION**

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

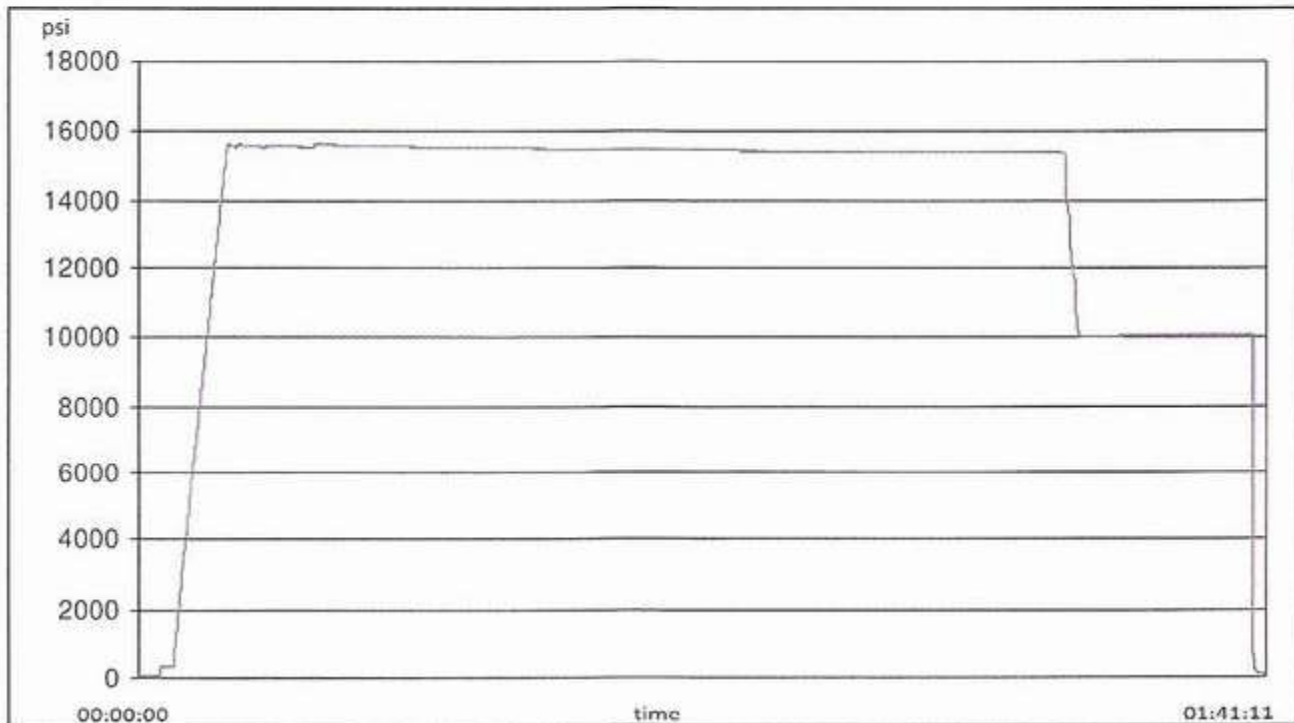
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

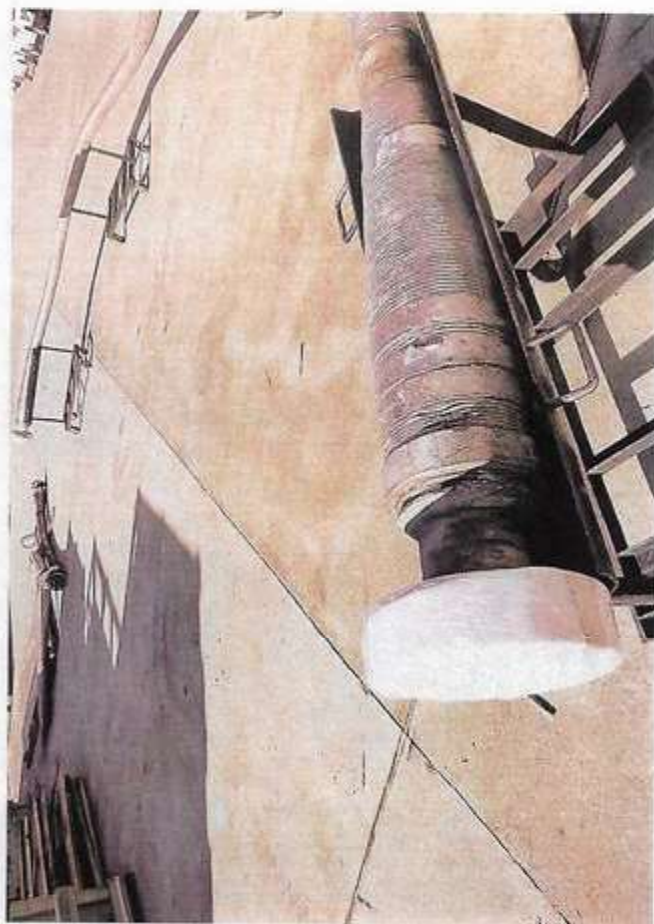
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## TEST REPORT

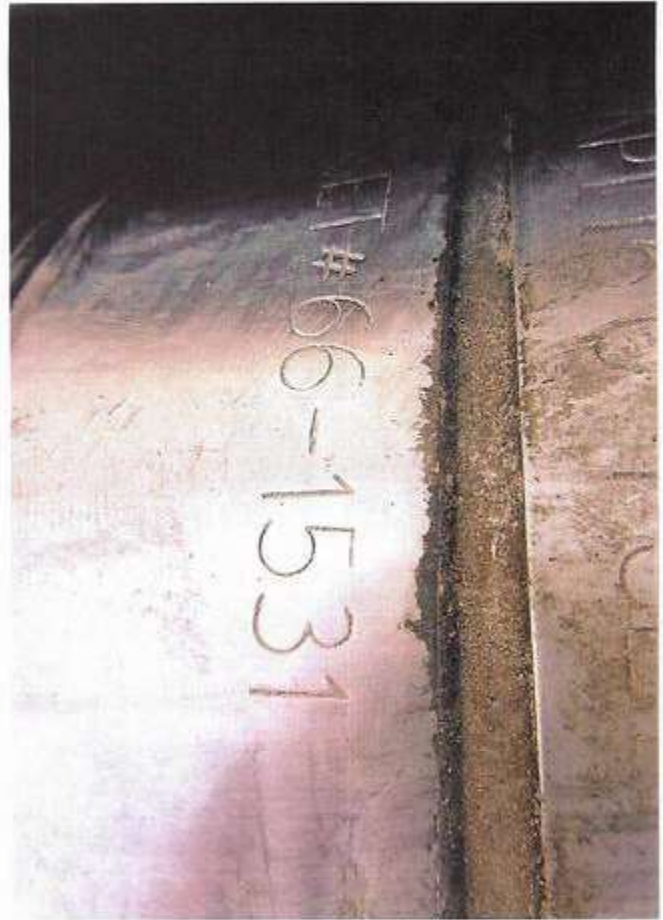
### GAUGE TRACEABILITY

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

### Comment









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

Description of Operations:

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



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

## SUPO Data Report

04/29/2025

APD ID: 10400098990

Submission Date: 06/21/2024

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 13-24 PC

Well Number: 705H

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PC\_13\_Existing\_Roads\_Map\_20240612123335.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? NO

### Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:



**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H

PC\_13\_1Mile\_20240612123827.pdf

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Facilities: Production Facilities will be located on the existing Poker Lake Unit 13-24 PC CVB. The facility is located in Section 13-24S-29E, Eddy County, New Mexico and is 600x 600. Flowlines: No additional flowline will be requested. Midstream Tie-in: No additional disturbance will be requested for Midstream. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. Electrical. All electrical lines are existing and no new disturbance is being requested at this time.

**Production Facilities map:**

2019051523\_XTO\_POKER\_LAKE\_UNIT\_13\_24\_PC\_FACILITY\_PAD\_EXISTING\_FINAL\_2\_17\_2025\_20250217132425.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source type:** OTHER**Describe type:** Freshwater; Section 6, T25S-R29E, Eddy County, New Mexico

<b>Water source use type:</b>	DUST CONTROL
	SURFACE CASING
	INTERMEDIATE/PRODUCTION CASING
	STIMULATION

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

<b>Water source permit type:</b>	PRIVATE CONTRACT
----------------------------------	------------------

<b>Water source transport method:</b>	TRUCKING
---------------------------------------	----------

**Source land ownership:** COMMERCIAL**Source transportation land ownership:** FEDERAL**Water source volume (barrels):** 300000**Source volume (acre-feet):** 38.6679289**Source volume (gal):** 12600000

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Water source type:** OTHER**Describe type:** Freshwater; Section 13, T17S-R33E, Lea County, New Mexico**Water source use type:** DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION  
CASING

STIMULATION

**Source latitude:****Source longitude:****Source datum:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** TRUCKING**Source land ownership:** COMMERCIAL**Source transportation land ownership:** FEDERAL**Water source volume (barrels):** 300000**Source volume (acre-feet):** 38.6679289**Source volume (gal):** 12600000**Water source and transportation**

PC\_13\_Vicinity\_Map\_20240612125249.pdf

**Water source comments:** The wells will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: i. Rockhouse Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC. from Section 13, T17S-R33E, Lea County, New Mexico. In the event that Rockhouse does not have the appropriate water for XTO Permian Operating, LLC at time of drilling and completion, then XTO Permian Operating, LLC water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**New water well?** N**New Water Well Info****Well latitude:****Well Longitude:****Well datum:**

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:**

### Section 6 - Construction Materials

**Using any construction materials:** YES**Construction Materials description:** Anticipated Caliche Locations : Pit 1: State operated by MEC, Section 32-T25S-R29E, SENE Pit 2: State operated by MEC, Section 11-T25S-R29E, SENW**Construction Materials source location**

### Section 7 - Methods for Handling

**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:** DRILLING**Waste content description:** Fluid**Amount of waste:** 500 barrels**Waste disposal frequency :** One Time Only

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Safe containment description:** Steel mud boxes**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY      **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240**Waste type:** SEWAGE

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

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

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

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

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**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. Drilling fluids will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

**Cuttings area length (ft.)****Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description****Section 8 - Ancillary****Are you requesting any Ancillary Facilities?:** N**Ancillary Facilities****Comments:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 13-24 PC

Well Number: 705H

### Section 9 - Well Site

#### Well Site Layout Diagram:

PC\_13\_24\_705H\_Well\_site\_plat\_20250217132652.pdf

PC\_13\_24\_705H\_RL\_20250220131416.pdf

Comments: Multi well pad

### Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: Poker Lake Unit 13-24 PC

Multiple Well Pad Number: B

#### Recontouring

2019051510\_XTO\_POKER\_LAKE\_UNIT\_13\_1\_PAD\_B\_INTERIM\_RECLAMATION\_FINAL\_1\_29\_2025\_R1\_20250214153741.pdf

2019051510\_XTO\_POKER\_LAKE\_UNIT\_13\_1\_PAD\_C\_INTERIM\_RECLAMATION\_FINAL\_1\_29\_2025\_R1\_20250214153741.pdf

**Drainage/Erosion control construction:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

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

<b>Well pad proposed disturbance (acres):</b>	<b>Well pad interim reclamation (acres): 0</b>	<b>Well pad long term disturbance (acres): 0</b>
<b>Road proposed disturbance (acres):</b>	<b>Road interim reclamation (acres): 0</b>	<b>Road long term disturbance (acres): 0</b>
<b>Powerline proposed disturbance (acres):</b>	<b>Powerline interim reclamation (acres): 0</b>	<b>Powerline long term disturbance (acres): 0</b>
<b>Pipeline proposed disturbance (acres):</b>	<b>Pipeline interim reclamation (acres): 0</b>	<b>Pipeline long term disturbance (acres): 0</b>
<b>Other proposed disturbance (acres):</b>	<b>Other interim reclamation (acres): 0</b>	<b>Other long term disturbance (acres): 0</b>
<b>Total proposed disturbance: 0</b>	<b>Total interim reclamation: 0</b>	<b>Total long term disturbance: 0</b>

#### Disturbance Comments:

**Reconstruction method:** The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

**Topsoil redistribution:** The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

**Soil treatment:** A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H

**Existing Vegetation at the well pad:** Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

**Existing Vegetation at the well pad**

**Existing Vegetation Community at the road:** Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

**Existing Vegetation Community at the road**

**Existing Vegetation Community at the pipeline:** Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

**Existing Vegetation Community at the pipeline**

**Existing Vegetation Community at other disturbances:** Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

**Existing Vegetation Community at other disturbances**

**Non native seed used?** N

**Non native seed description:**

**Seedling transplant description:**

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

**Seedling transplant description**

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

**Seed harvest description:**

**Seed harvest description attachment:**



**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Seed****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation****Operator Contact/Responsible Official****First Name:** Robert**Last Name:** Bartels**Phone:** (406)478-3617**Email:** Robert.e.bartels@exxonmobil.com

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

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

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

**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 NMOC requirements 19.15.17.

**Pit closure attachment:****Section 11 - Surface Ownership**

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**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:** WELL PAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Disturbance type:** TRANSMISSION LINE**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:****Disturbance type:** OTHER**Describe:** Flowline**Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Section 12 - Other****Right of Way needed?** N**Use APD as ROW?****ROW Type(s):****ROW****SUPO Additional Information:****Use a previously conducted onsite?** Y**Previous Onsite information:** The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 11/26/2019.**Other SUPO**

PC\_13\_SUPO\_20240612134355\_20250214104952.pdf

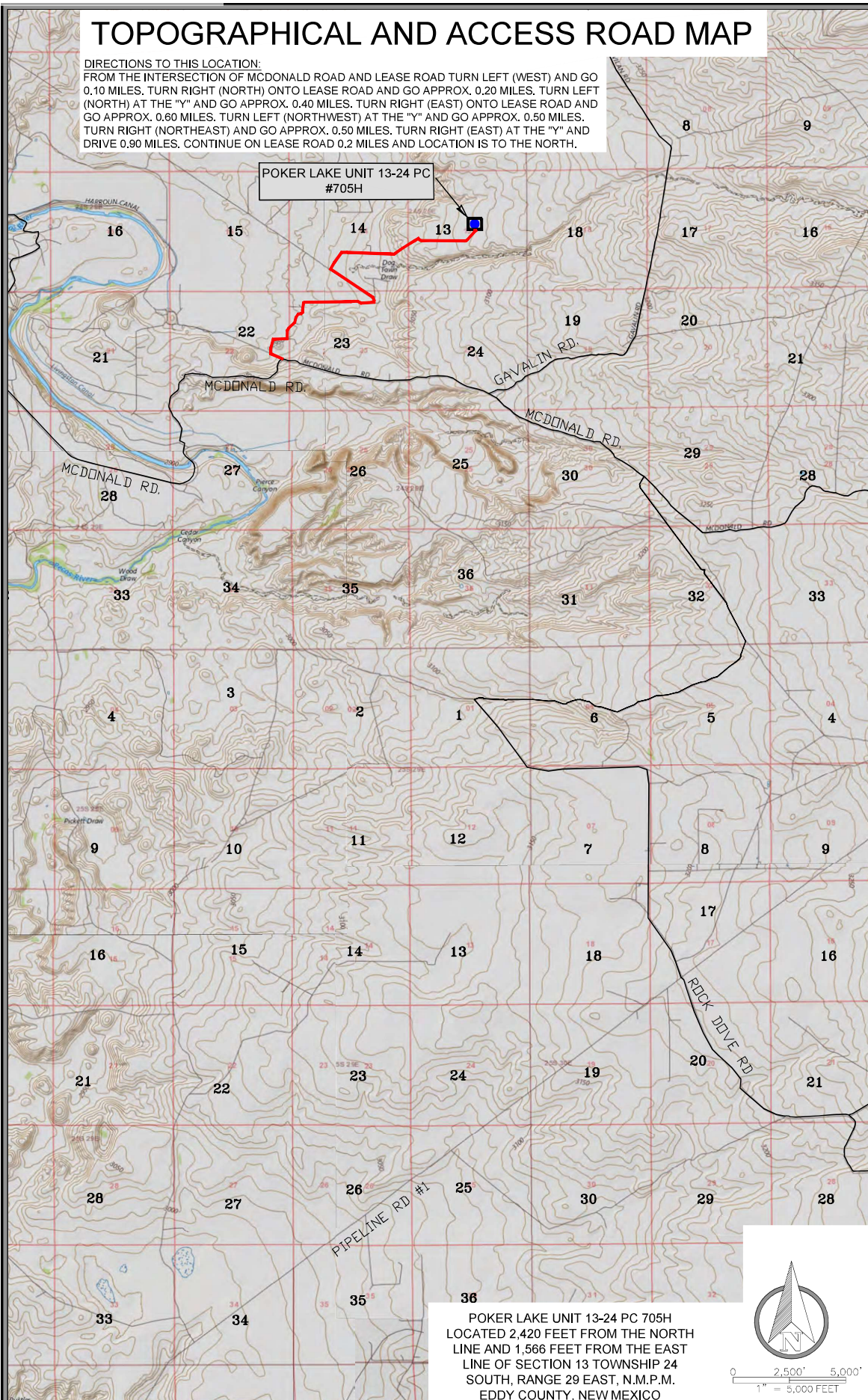


# TOPOGRAPHICAL AND ACCESS ROAD MAP

## DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF MCDONALD ROAD AND LEASE ROAD TURN LEFT (WEST) AND GO 0.10 MILES. TURN RIGHT (NORTH) ONTO LEASE ROAD AND GO APPROX. 0.20 MILES. TURN LEFT (NORTH) AT THE "Y" AND GO APPROX. 0.40 MILES. TURN RIGHT (EAST) ONTO LEASE ROAD AND GO APPROX. 0.60 MILES. TURN LEFT (NORTHWEST) AT THE "Y" AND GO APPROX. 0.50 MILES. TURN RIGHT (NORTHEAST) AND GO APPROX. 0.50 MILES. TURN RIGHT (EAST) AT THE "Y" AND DRIVE 0.90 MILES. CONTINUE ON LEASE ROAD 0.2 MILES AND LOCATION IS TO THE NORTH.

POKER LAKE UNIT 13-24 PC  
#705H



POKER LAKE UNIT 13-24 PC 705H  
LOCATED 2,420 FEET FROM THE NORTH  
LINE AND 1,566 FEET FROM THE EAST  
LINE OF SECTION 13 TOWNSHIP 24  
SOUTH, RANGE 29 EAST, N.M.P.M.  
EDDY COUNTY, NEW MEXICO



0 2,500' 5,000'  
1" = 5,000 FEET



550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
[www.fscinc.net](http://www.fscinc.net)

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DATE:	5-6-2024	PROJECT NO:	2024030175
DRAWN BY:	LM	SCALE:	1" = 5,000'
CHECKED BY:	CH	SHEET:	3 OF 3
FIELD CREW:	RE/PH	REVISION:	0







0 100' 200'  
1" = 200 FEET

## SECTION 13

TOWNSHIP 24 SOUTH, RANGE 29 EAST  
NEW MEXICO PRINCIPAL MERIDIAN  
OWNER: U.S.A.

### POKER LAKE UNIT 13-24 PC EXISTING FACILITY PAD DESCRIPTION:

Description of a existing facility pad totaling 8.27 acres and being situated in Section 13, Township 24 South, Range 29 East, New Mexico Principal Meridian, Eddy County, New Mexico and being more particularly described as follows:

**BEGINNING** at the northeast corner of the existing facility pad from which a 2" found iron pipe with a brass cap, being the northeast corner of said Section 13, bears N 35°19'41" E a distance of 1,684.49 feet;

**THENCE** over and across said Section 13, the following courses and distances:

S 00°03'03" W, a distance of 600.06 feet to a point;

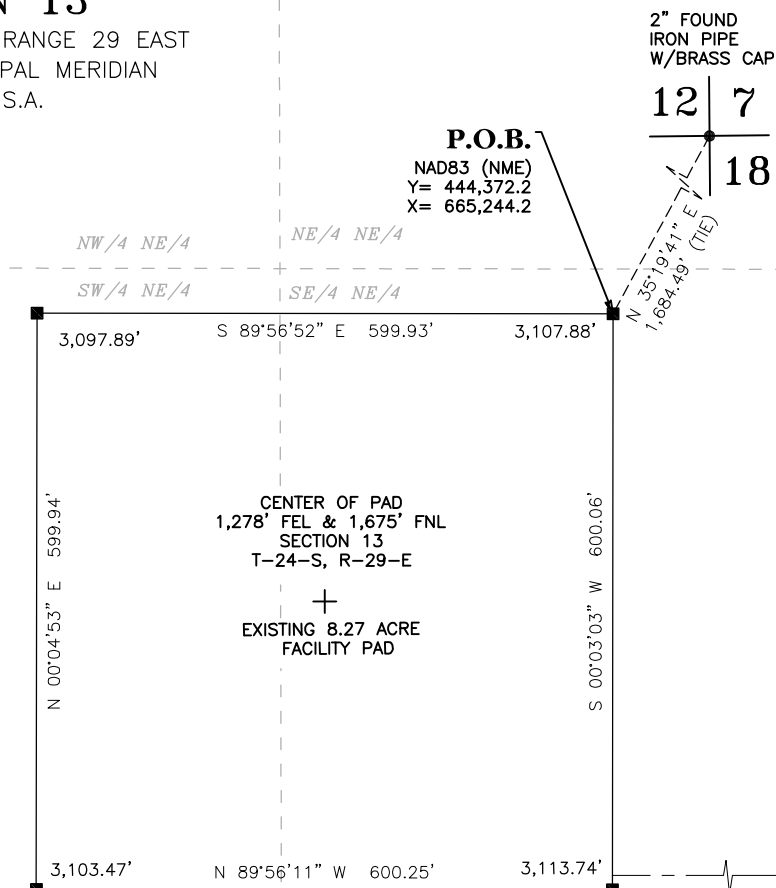
N 89°56'11" W, a distance of 600.25 feet to a point;

N 00°04'53" E, a distance of 599.94 feet to a point;

S 89°56'52" E, a distance of 599.93 feet to the POINT OF BEGINNING containing a total of **8.27 acres**, more or less.

Said pad is divided in each quarter-quarter section as follows

SE/4 NE/4 Section 13 = 4.76 OF AN ACRE  
SW/4 NE/4 Section 13 = 3.51 ACRES



### LEGEND

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

- — — — — SECTION LINE  
— — — — — EXISTING FACILITY PAD  
— — — — — EXISTING ACCESS ROAD  
P.O.B. POINT OF BEGINNING  
● FOUND MONUMENT AS NOTED

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Tim C. Pappas* 17 Feb 2025

TIM C. PAPPAS  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 21209



2821 West 7th Street, Suite 200  
Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
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XTO PERMIAN OPERATING, LLC.

EXISTING FACILITY PAD  
POKER LAKE UNIT 13-24 PC

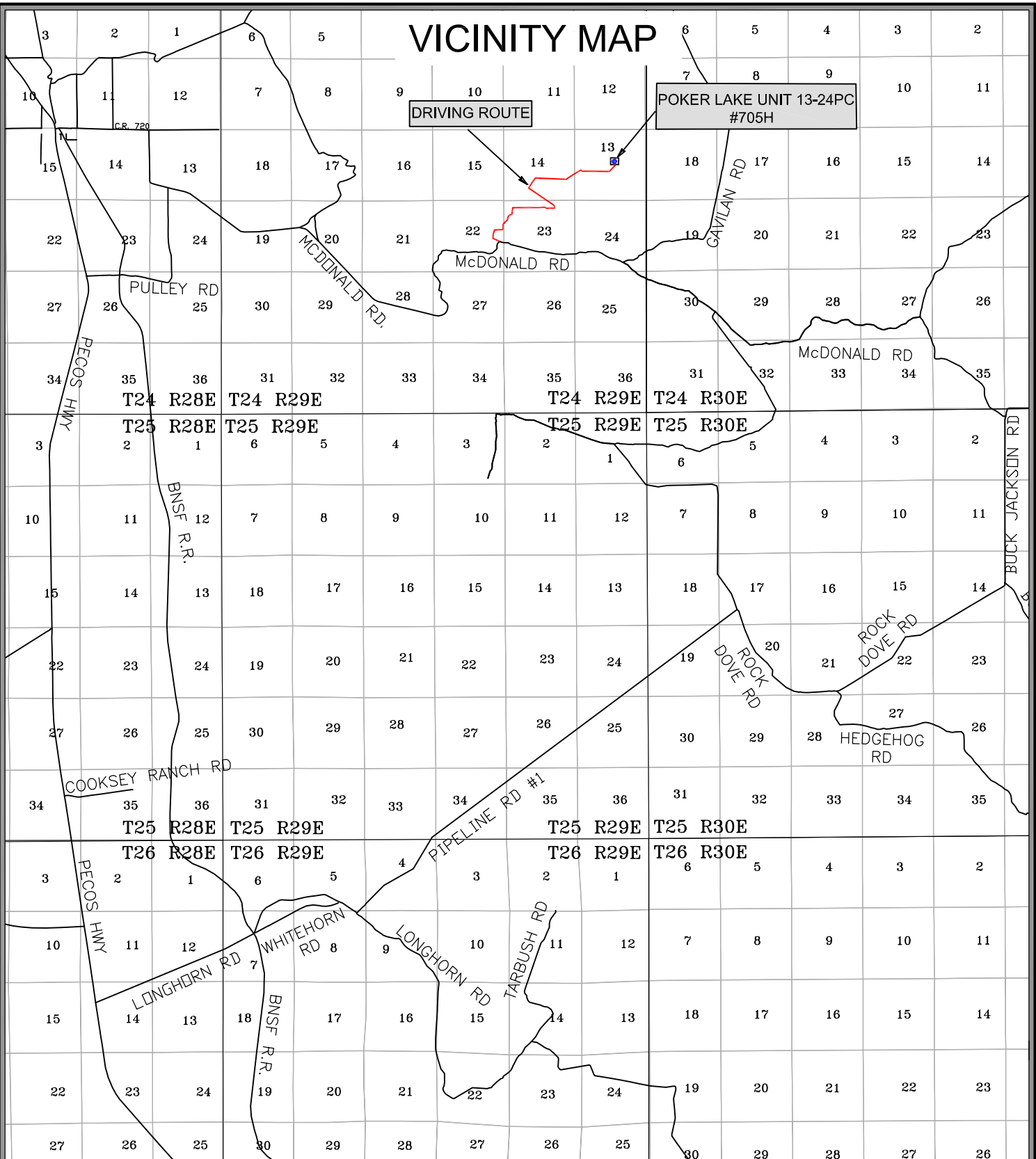
SURVEY FOR AN EXISTING FACILITY PAD  
SITUATED IN THE NE/4 OF SECTION 13,  
TOWNSHIP 24 SOUTH, RANGE 29 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	2-17-2025	PROJECT NO:	2019051523
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	0



## VICINITY MAP

DRIVING ROUTE

POKER LAKE UNIT 13-24PC  
#705H

POKER LAKE UNIT 13-24 PC 705H  
 LOCATED 2,420 FEET FROM THE NORTH  
 LINE AND 1,566 FEET FROM THE EAST  
 LINE OF SECTION 13 TOWNSHIP 24  
 SOUTH, RANGE 29 EAST, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO



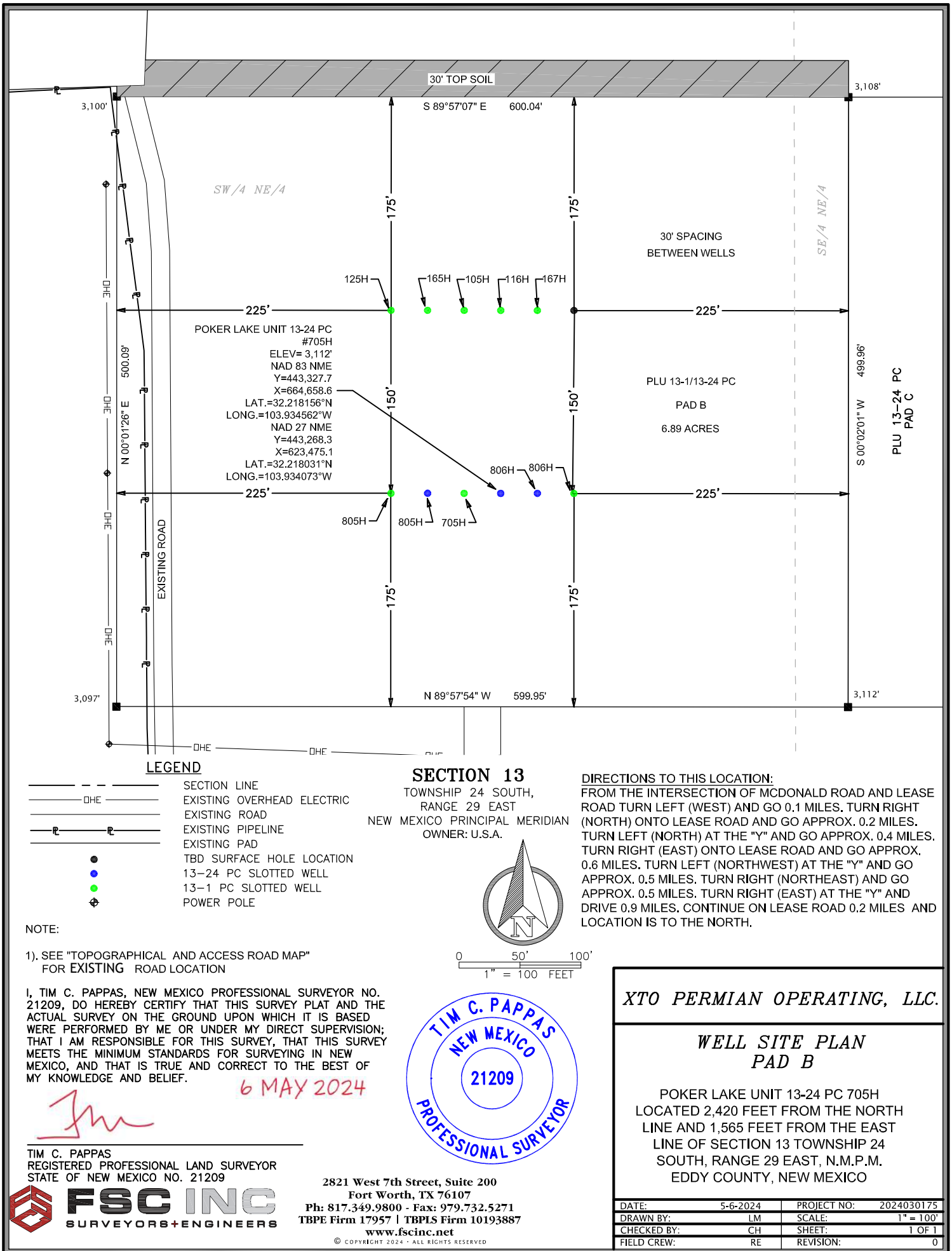
0 5,000' 10,000'  
 1" = 10,000 FEET

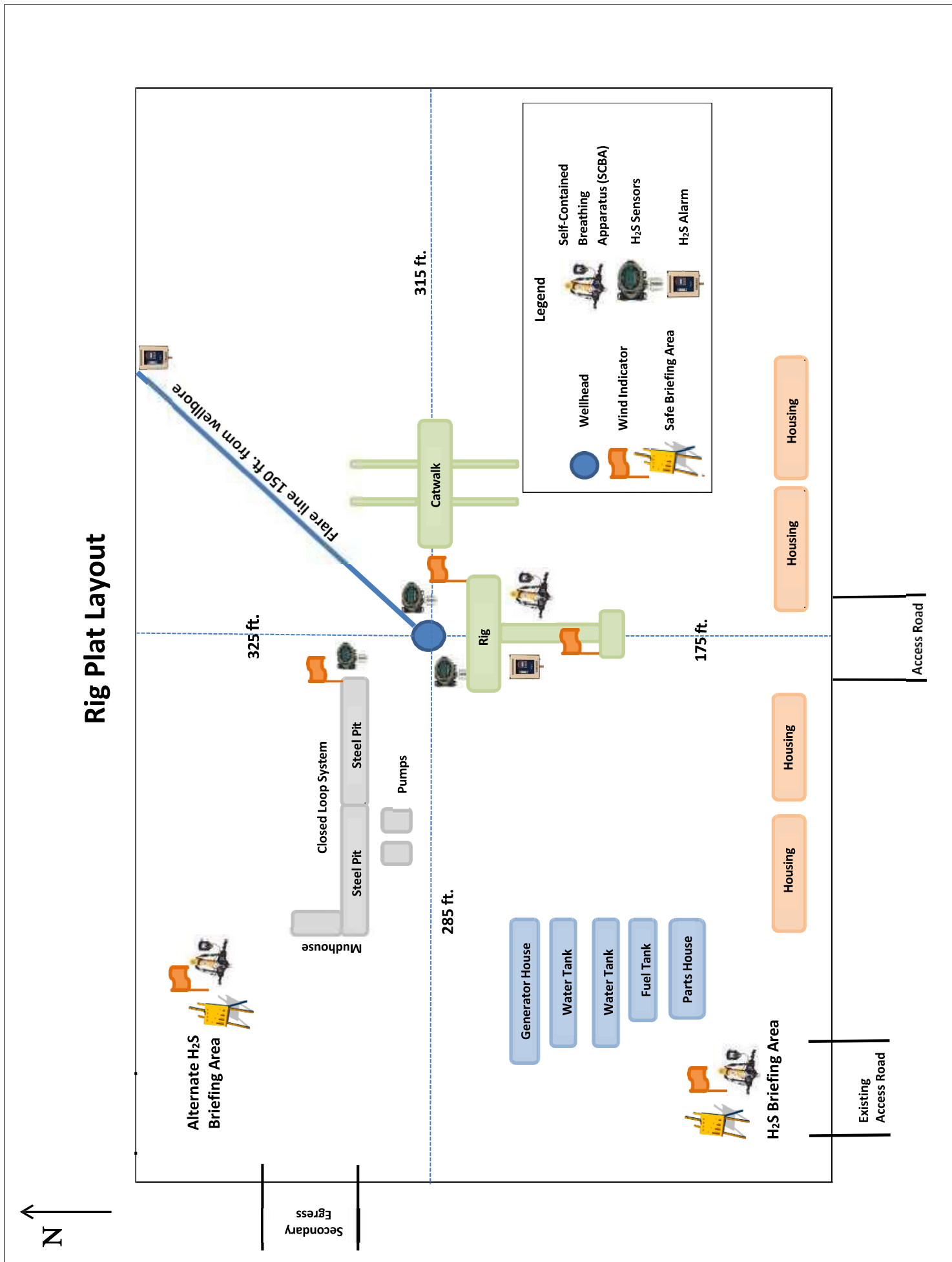


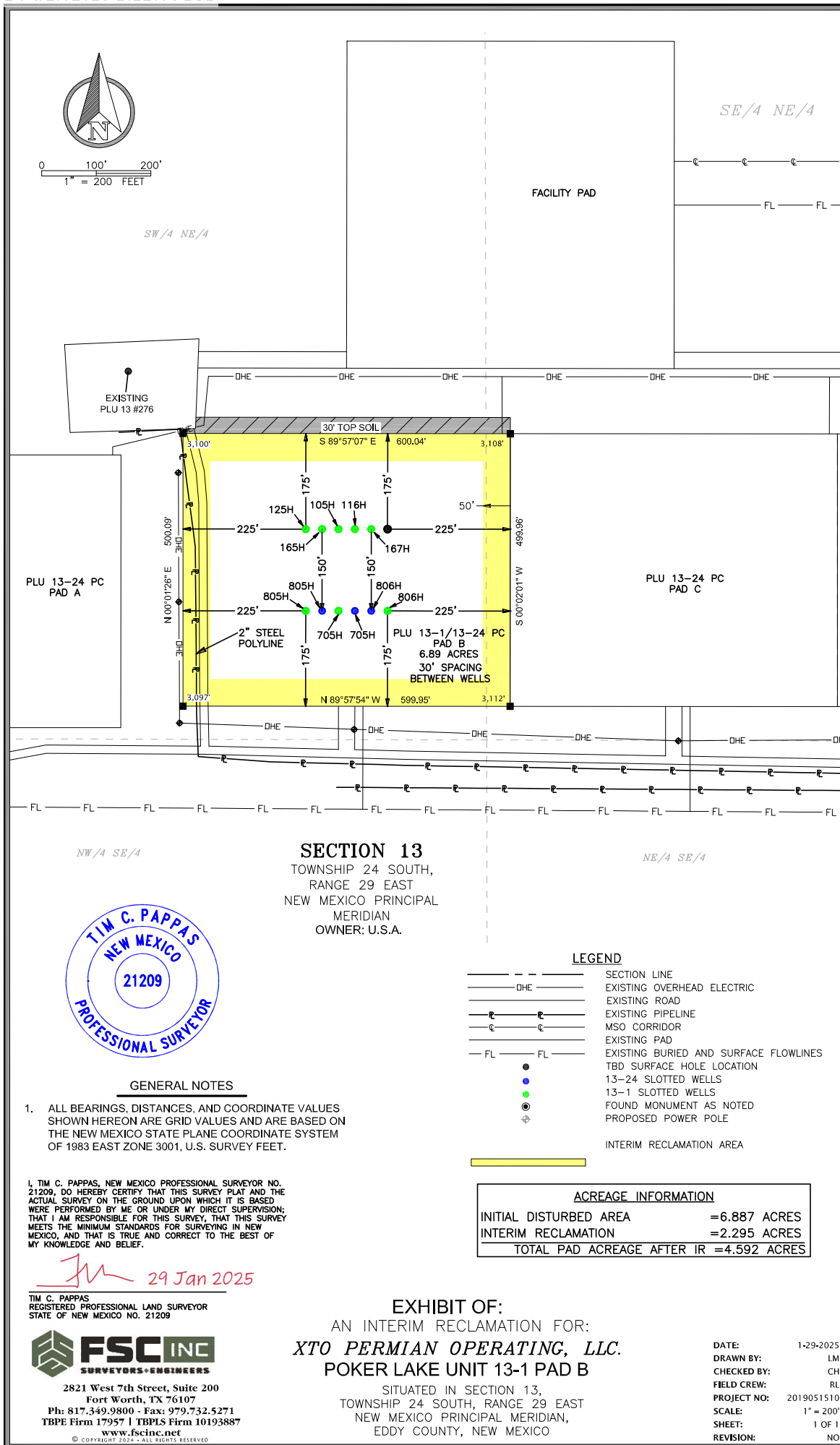
**FSC INC**  
 SURVEYORS+ENGINEERS

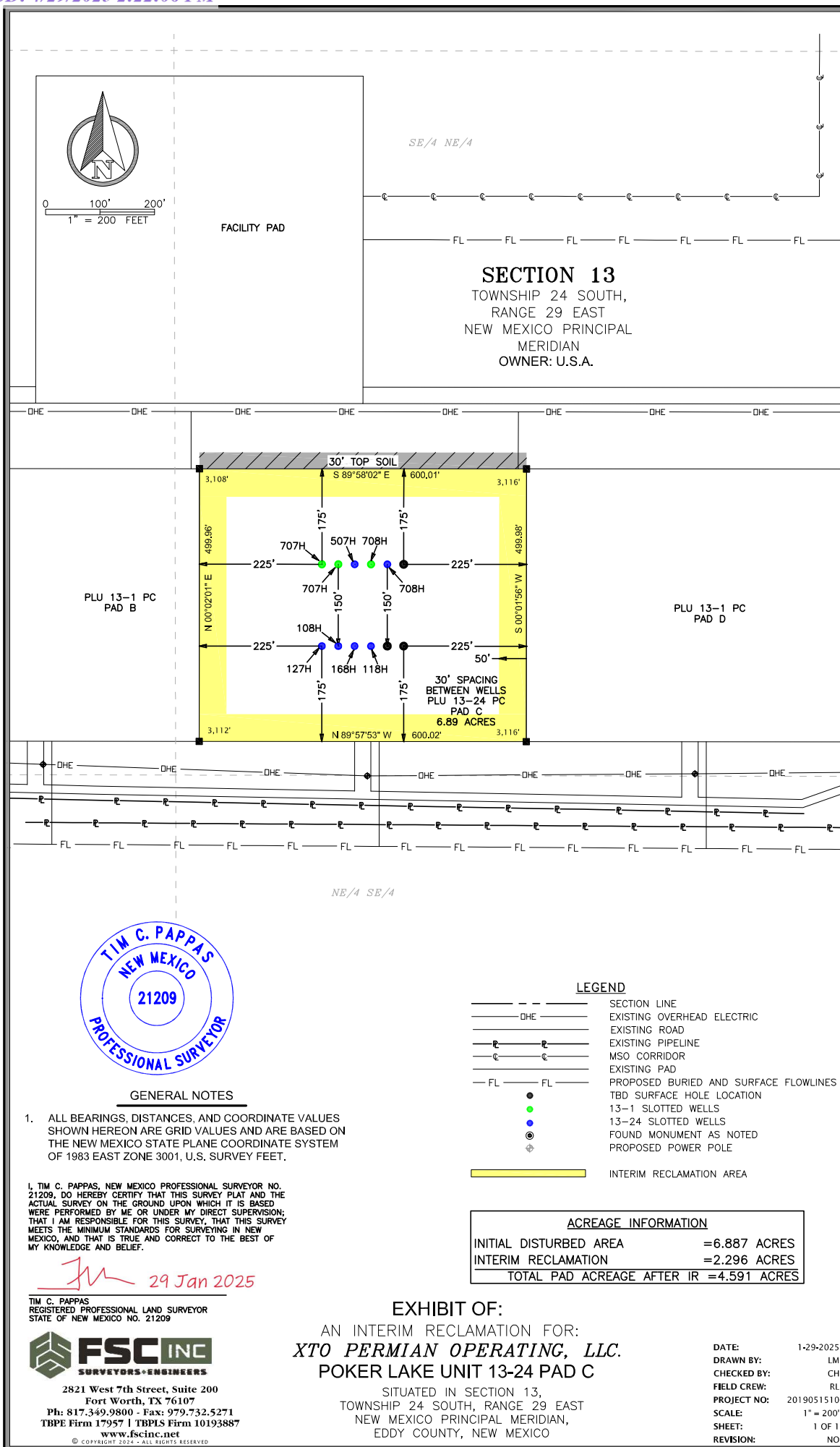
550 Bailey Ave., 205 - Fort Worth, TX 76107  
 Ph: 817.349.9800 - Fax: 979.732.5271  
 TBPE Firm 17957 | TBPLS Firm 10193887  
 www.fscinc.net

DATE: 4-3-2024  
 DRAWN BY: LM  
 CHECKED BY: CH  
 FIELD CREW: RE/RR  
 PROJECT NO: 2024030175  
 SCALE: 1" = 10,000'  
 SHEET: 2 OF 3  
 REVISION: 0









Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
Poker Lake Unit 13-1 Pierce Canyon 507H	2270	FNL	995	FEL
Poker Lake Unit 13-1 Pierce Canyon 705H	2420	FNL	1596	FEL
Poker Lake Unit 13-1 Pierce Canyon 707H	2270	FNL	1055	FEL
Poker Lake Unit 13-1 Pierce Canyon 708H	2270	FNL	965	FEL
Poker Lake Unit 13-1 Pierce Canyon 805H	2420	FNL	1656	FEL
Poker Lake Unit 13-1 Pierce Canyon 806H	2420	FNL	1506	FEL
Poker Lake Unit 13-24 Pierce Canyon 705H	2420	FNL	1566	FEL
Poker Lake Unit 13-24 Pierce Canyon 707H	2270	FNL	1025	FEL
Poker Lake Unit 13-24 Pierce Canyon 708H	2270	FNL	935	FEL
Poker Lake Unit 13-24 Pierce Canyon 805H	2420	FNL	1626	FEL
Poker Lake Unit 13-24 Pierce Canyon 806H	2420	FNL	1536	FEL

## Surface Use Plan of Operations

---

### A. The Surface Use Plan of Operations Must:

1. Access road will be existing roads to the Poker Lake Unit 13-24 and 13-1 PC well pads B and C as well as the CVB.
2. XTO Permian Operating LLC. Will provide for safe operations, adequate protection of surface resources, groundwater, and other environmental components.
3. Interim Reclamation will not be completed for the well pads as they are existing and no new surface disturbance will occur.
4. XTO Permian Operating LLC, will use the Gold Book standards for Best Management Practices.

## Surface Use Plan

---

### 1 Existing Roads

- i. FROM THE INTERSECTION OF MCDONALD ROAD AND LEASE ROAD TURN LEFT (WEST) AND GO 0.10 MILES. TURN RIGHT (NORTH) ONTO LEASE ROAD AND GO APPROX. 0.20 MILES. TURN LEFT (NORTH) AT THE "Y" AND GO APPROX. 0.40 MILES. TURN RIGHT (EAST) ONTO LEASE ROAD AND GO APPROX. 0.60 MILES. TURN LEFT (NORTHWEST) AT THE "Y" AND GO APPROX. 0.50 MILES. TURN RIGHT (NORTHEAST) AND GO APPROX. 0.50 MILES. TURN RIGHT (EAST) AT THE "Y" AND DRIVE 0.90 MILES. CONTINUE ON LEASE ROAD 0.2 MILES AND LOCATION IS TO THE NORTH.

**2 New or Upgraded Access Roads:** There are no new Access Roads being requested.

**3 Location of Existing Wells**

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

**4 Location of existing and/or proposed production facilities.**

**a. Production Facilities.**

- i. **Facilities:** Production Facilities will be located on the existing Poker Lake Unit 13-24 PC CVB. The facility is located in Section 13-24S-29E, Eddy County, New Mexico and is 600'x 600'.
- ii. **Flowlines:** No additional flowline will be requested.
- iii. **Midstream Tie-in:** No additional disturbance will be requested for Midstream.
- iv. **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 earthtone colors such as 'shale green' that reduce the visual impacts of the built environment.
- v. **Electrical.** All electrical lines are existing, and no new disturbance is being requested at this time.

**5 Location and Types of Water Supply.**

- a. The wells will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3<sup>rd</sup> party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.
- b. Water for drilling, completion and dust control will be purchased from the following company:
  - i. Rockhouse
- c. Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC. from Section 13, T17S-R33E, Lea County, New Mexico. In the event that Rockhouse does not have the appropriate water for XTO Permian Operating, LLC at time of drilling and completion, then XTO Permian Operating, LLC water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.
- d. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.
- e. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**6 Construction Materials.**

- a. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- b. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will



be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.

- c. Anticipated Caliche Locations:
  - i. Pit 1: State operated by MEC, Section 32-T25S-R29E, SENE
  - ii. Pit 2: State operated by MEC, Section 11-T25S-R29E, SENW

## 7 Methods for Handling Waste

- a. **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.
- b. **Drilling Fluids.** Drilling fluids will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- c. **Produced Fluids.** Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- d. **Sewage.** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- f. **Debris.** Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- g. **Hazardous Materials.**
  - i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
  - ii. XTO Permian Operating, L.P. and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C. 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
  - iii. No hazardous substances or wastes will be stored on the location after completion of the well.
  - iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.

- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

**8 Ancillary facilities:** None

**9 Well Site Layout**

- 1. **Well Pads:** Pad B is an existing well pad approximately 600'x500'. IR will not be conducted as there will be no new surface disturbance. Pad C is an existing well pad approximately 600'x500' IR will not be conducted as there will be no new surface disturbance.
- 2. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).
- 3. Well site layout is attached.

**10 Plans for Surface Reclamation:**

- a. Interim reclamation will not be completed on the 2 well pads following drilling and completions
- b. *Non-Commercial Well (Not Productive), Interim & Final Reclamation:*
  - i. *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.
- c. *Reclamation Standards:*
  - i. 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 plans attached).
  - ii. 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.
  - iii. The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded
  - iv. A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.
  - v. Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gully, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.
  - vi. 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.
  - vii. Seeding:

1. 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.
  2. 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.
  3. Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- viii. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

## 11 Surface Ownership

- a. 100% of the Poker Lake Unit PC 13 well pads under the administrative jurisdiction of the Bureau of Land Management.
- b. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

## 12 Other Information

- a. 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  
406-478-3617  
Robert.e.bartels@exxonmobil.com



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

## PWD Data Report

04/29/2025

**APD ID:** 10400098990

**Submission Date:** 06/21/2024

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 13-24 PC

**Well Number:** 705H

**Well Type:** OIL WELL

**Well Work Type:** Drill

### Section 1 - General

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

### Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit**

**Pit liner description:**

**Pit liner manufacturers**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule**

**Lined pit reclamation description:**

**Lined pit reclamation**

**Leak detection system description:**

**Leak detection system**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 13-24 PC

**Well Number:** 705H

**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:**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule**

**Unlined pit reclamation description:**

**Unlined pit reclamation**

**Unlined pit Monitor description:**

**Unlined pit Monitor**

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

**Beneficial use user**

**Estimated depth of the shallowest aquifer (feet):**

**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**

**State**

**Unlined Produced Water Pit Estimated**

**Unlined pit: do you have a reclamation bond for the pit?**

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**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):****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):****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:****Section 6 -****Would you like to utilize Other PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD discharge volume (bbl/day):**



**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 13-24 PC

**Well Number:** 705H

**Other PWD type description:**

**Other PWD type**

**Have other regulatory requirements been met?**

**Other regulatory requirements**



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

**Bond Info Data**

04/29/2025

**APD ID:** 10400098990**Submission Date:** 06/21/2024**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 13-24 PC**Well Number:** 705H**Well Type:** OIL WELL**Well Work Type:** Drill

Highlighted data  
reflects the most  
recent changes

[Show Final Text](#)**Bond****Federal/Indian APD:** FED**BLM Bond number:** COB000050**BIA Bond number:****Do you have a reclamation bond?** NO**Is the reclamation bond a rider under the BLM bond?****Is the reclamation bond BLM or Forest Service?****BLM reclamation bond number:****Forest Service reclamation bond number:****Forest Service reclamation bond attachment:****Reclamation bond amount:****Reclamation bond rider amount:****Additional reclamation bond information attachment:**

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 456827

**CONDITIONS**

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 456827
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
mvenkatesh	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/29/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/29/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/13/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/13/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	6/13/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	6/13/2025