



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

Application for Permit to Drill

APD Package Report

Date Printed: 05/19/2025 03:36 PM

APD ID: 10400100949	Well Status: AAPD
APD Received Date: 09/23/2024 02:30 PM	Well Name: POKER LAKE UNIT 20-17 BE
Operator: XTO PERMIAN OPERATING LLC	Well Number: 203H

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: 1 file(s)
 - Other Facets: 4 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)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		5. Lease Serial No. NMLC064894 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT 8. Lease Name and Well No. POKER LAKE UNIT 20-17 BD 203H 9. API Well No. 30-015-57281
2. Name of Operator XTO PERMIAN OPERATING LLC 3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701 3b. Phone No. (include area code) (432) 683-2277		10. Field and Pool, or Exploratory CORRAL CANYON/BONE SPRING 11. Sec., T. R. M. or Blk. and Survey or Area SEC 20/T25S/R30E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESW / 1432 FSL / 1964 FWL / LAT 32.112215 / LONG -103.905726 At proposed prod. zone NENW / 10 FSL / 1570 FWL / LAT 32.137468 / LONG -103.907025		
14. Distance in miles and direction from nearest town or post office*		12. County or Parish EDDY 13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1432 feet	16. No of acres in lease 17. Spacing Unit dedicated to this well 320.0	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 10107 feet / 21485 feet	20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3174 feet	22. Approximate date work will start* 10/15/2025	23. Estimated duration 45 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) SAMANTHA WEIS / Ph: (432) 682-8873	Date 09/23/2024
Title Permitting Advisor		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 05/19/2025
Title Assistant Field Manager Lands & Minerals 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 a new 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: NESW / 1432 FSL / 1964 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.112215 / LONG: -103.905726 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 100 FSL / 1570 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108545 / LONG: -103.906997 (TVD: 10107 feet, MD: 11000 feet)

BHL: NENW / 10 FSL / 1570 FWL / TWSP: 25S / RANGE: 30E / SECTION: 17 / LAT: 32.137468 / LONG: -103.907025 (TVD: 10107 feet, MD: 21485 feet)

BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov

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Review and Appeal Rights

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

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**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	XTO PERMIAN OPERATING LLC
LEASE NO.:	NMLC064894
COUNTY:	Eddy County, New Mexico

Wells:

POKER LAKE UNIT 20-17 BD #201H: PAD B – E1

Surface Hole Location: 1,904' FWL & 1,434' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 330' FWL & 10' FNL, SECTION 17, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-17 BD #202H: PAD B – E2

Surface Hole Location: 1,934' FWL & 1,433' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 800' FWL & 10' FNL, SECTION 17, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-17 BD #203H: PAD B – E3

Surface Hole Location: 1,964' FWL & 1,432' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 1,570' FWL & 10' FNL, SECTION 17, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #204H: PAD B – E4

Surface Hole Location: 1,994' FWL & 1,431' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 1,895' FWL & 2,649' FSL, SECTION 8, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #205H: PAD B – E5

Surface Hole Location: 2,024' FWL & 1,431' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 2,544' FEL & 2,650' FSL, SECTION 8, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #206H: PAD D – B5

Surface Hole Location: 1,604' FEL & 1,813' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 2,358' FEL & 2,650' FSL, SECTION 8, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #207H: PAD D – B6

Surface Hole Location: 1,574' FEL & 1,813' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 1,348' FEL & 2,652' FSL, SECTION 8, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #208H: PAD D – B7

Surface Hole Location: 1,544' FEL & 1,813' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 1,248' FEL & 2,652' FSL, SECTION 8, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #209H: PAD D – B8

Surface Hole Location: 1,514' FEL & 1,813' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 177' FEL & 10' FNL, SECTION 8, T. 25 S. R. 30 E.

POKER LAKE UNIT 20-8 BD #210H: PAD D – B9

Surface Hole Location: 1,484' FEL & 1,813' FSL, SECTION 20, T. 25 S. R. 30 E.
Bottom Hole Location: 717' FEL & 10' FNL, SECTION 8, T. 25 S. R. 30 E.

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1. GENERAL PROVISIONS

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

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

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

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

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

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

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

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

lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. Fence Requirement

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

1.2.3. Livestock Watering Requirement

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

1.3. NOXIOUS WEEDS

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

1.3.1 African Rue (*Peganum harmala*)

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

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

1.4. LIGHT POLLUTION

1.4.1. Downfacing

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

1.4.2. Shielding

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

1.4.3. Lighting Color

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

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

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

2.1.1. Tank Battery

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

2.1.2. Buried/Surface Line(s)

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

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

2.1.3. Electric Line(s)

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

2.1.4. Temporary Use Fresh Water Frac Line(s)

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

2.3 VISUAL RESOURCE MANAGEMENT

2.5.1 VRM IV

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

3. CONSTRUCTION REQUIREMENTS

3.1 CONSTRUCTION NOTIFICATION

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

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

3.2 TOPSOIL

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

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

3.3 CLOSED LOOP SYSTEM

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

3.4 FEDERAL MINERAL PIT

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

3.5 WELL PAD & SURFACING

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

3.6 EXCLOSURE FENCING (CELLARS & PITS)

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

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

4.1 BURIED PIPELINES

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

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

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.
5. All construction and maintenance activity will be confined to the authorized pipeline corridor.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:
 - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)

- Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
 9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.
 10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
 11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.
 12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
 13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

4.2 SURFACE PIPELINES

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

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

1. Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridor on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. Operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.
4. Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Operator shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the pipeline corridor or permit area:
 - a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage
 - c. Acts of God.

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

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

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

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

4.3 RANGELAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

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

4.5.2 Cattleguards

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

4.5.3 Livestock Watering Requirement

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

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

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

4. OVERHEAD ELECTRIC LINES

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

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

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the

Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 Placement of Production Facilities

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

5.1.2 Exclosure Netting (Open-top Tanks)

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

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

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

5.1.4. Open-Vent Exhaust Stack Exclosures

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

5.1.5. Containment Structures

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

6. RECLAMATION

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

6.1 ROAD AND SITE RECLAMATION

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

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

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

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

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

6.4 FINAL ABANDONMENT & RECLAMATION

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

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

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

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

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

6.5 SEEDING TECHNIQUES

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

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permittee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation

Seed Mixture 2, for Sandy Site

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

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

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

XTO Energy Inc.
POKER LAKE UNIT 20-17 BD 203H
Projected TD: 21485.45' MD / 10107' TVD
SHL: 1432' FSL & 1964' FWL , Section 20, T25S, R30E
BHL: 10' FNL & 1570' FWL , Section 17, T25S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	878'	Water
Top of Salt	1028'	Water
Base of Salt	3427'	Water
Delaware	3634'	Water
Brushy Canyon	6182'	Water/Oil/Gas
Bone Spring	7459'	Water
Avalon	7580'	Water/Oil/Gas
1st Bone Spring	8183'	Water/Oil/Gas
2nd Bone Spring	8662'	Water/Oil/Gas
3rd Bone Spring	9528'	Water/Oil/Gas
Target/Land Curve	10107'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 978' (50' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9638.43' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21485.45 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9338.43 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 978'	9.625	40	J-55	BTC	New	1.37	6.44	16.10
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.02	2.57	1.95
8.75	4000' – 9638.43'	7.625	29.7	HC L-80	Flush Joint	New	2.19	1.97	2.42
6.75	0' – 9538.43'	5.5	20	RY P-110	Semi-premium/ Freedom HTQ	New	1.26	2.19	2.19
6.75	9538.43' - 21485.45'	5.5	20	RY P-110	Semi-flush/ Talon HTQ	New	1.26	2.07	2.19

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

Wellhead:

XTO will utilize a 3 string Multi-bowl system.

4. Cement Program

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.

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 978'

Lead: 220 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9638.43'1st Stage

Optional Lead: 330 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 320 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6182

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)

Tail: 700 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6182') 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: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 21485.45'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft ³ /sx, 15.00 gal/sx water)	Top of Cement:	9338.43 feet
Tail: 830 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft ³ /sx, 8.38 gal/sx water)	Top of Cement:	9838.43 feet
Compressives:	12-hr =	800 psi
	24 hr =	1500 psi

5. Pressure Control Equipment

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

All BOP testing will be done by an independent service company. Operator will test as per 43 CFR3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53.

XTO requests a variance to utilize a spudder rig.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 978'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
978' - 9638.43'	8.75	Saturated brine for salt interval / Direct Emulsion	10-10.5	30-32	NC	Fully saturated salt across salado / salt
9638.43' - 21485.45'	6.75	OBM	10.2-10.7	50-60	NC - 20	N/A

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

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

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

10. Anticipated Starting Date and Duration of Operations

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 20-17 BD 203H
LOCATION:	Section 20, T.25S., R.30E.
COUNTY:	Eddy County

COA

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

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1150** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **12-1/4** inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

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

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

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

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

E. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 4/30/2025



Operator Certification Data Report

05/19/2025

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

Operator

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

NAME: RAVI SAGAR

Signed on: 09/23/2024

Title: Regulatory Clerk

Street Address: 22777 SPRINGWOODS VILLAGE PKWY

City: SPRING

State: TX

Zip: 77389

Phone: (817)870-2800

Email address: RAVI.SAGAR@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data

05/19/2025

APD ID: 10400100949

Submission Date: 09/23/2024

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400100949

Tie to previous NOS? N

Submission Date: 09/23/2024

BLM Office: Carlsbad

User: RAVI SAGAR

Title: Regulatory Clerk

Federal/Indian APD: FED

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

Lease number: NMLC064894

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 20-17 BD

Well Number: 203H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: CORRAL CANYON Pool Name: BONE SPRING

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

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

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:
POKER LAKE UNIT 20-17 BD

Number: B

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EVALUATION

Describe sub-type:

Distance to town:

Distance to nearest well: 30 FT

Distance to lease line: 1432 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: 2024060275_XTO_POKER_LAKE_UNIT_20_17_BD_203H_C_102_FINAL_7_12_2024___UPDATED_FO
RM_9_12_2024_15_09_2024__14_50_20240923142416.pdf

Well work start Date: 10/15/2025

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	143 2	FSL	196 4	FW L	25S	30E	20	Aliquot NESW	32.11221 5	- 103.9057 26	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 64894	317 4			Y
KOP Leg #1	143 2	FSL	196 4	FW L	25S	30E	20	Aliquot NESW	32.11221 5	- 103.9057 26	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 64894	- 621 7	983 8	939 1	Y
PPP Leg #1-1	100	FSL	157 0	FW L	25S	30E	20	Aliquot SESW	32.10854 5	- 103.9069 97	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 64894	- 693 3	110 00	101 07	Y

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
EXIT Leg #1	100	FNL	1570	FWL	25S	30E	17	Aliquot NENW 1	32.137221	-103.907025	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC064894A	-6933	21395	10107	Y
BHL Leg #1	10	FSL	1570	FWL	25S	30E	17	Aliquot NENW 8	32.137468	-103.907025	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC064894A	-6933	21485	10107	Y

CONFIDENTIAL

<p>C-102</p> <p>Submit Electronically Via OCD Permitting</p>	<p>State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION</p>	<p>Revised July 9, 2024</p>							
		<p><input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled</p>							
WELL LOCATION INFORMATION									
API Number 30-015	Pool Code [13354]	Pool Name CORRAL CANYON, BONE SPRING							
Property Code	Property Name POKER LAKE UNIT 20-17 BD	Well Number 203H							
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,174'							
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal							
Surface Location									
UL K	Section 20	Township 25 S	Range 30 E	Lot	Ft. from N/S 1,432' FSL	Ft. from E/W 1,964' FWL	Latitude 32.112215	Longitude -103.905726	County EDDY
Bottom Hole Location									
UL C	Section 17	Township 25 S	Range 30 E	Lot	Ft. from N/S 10' FNL	Ft. from E/W 1,570' FWL	Latitude 32.137468	Longitude -103.907025	County EDDY
Dedicated Acres 320	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code U					
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Kick Off Point (KOP)									
UL K	Section 20	Township 25 S	Range 30 E	Lot	Ft. from N/S 1,432' FSL	Ft. from E/W 1,964' FWL	Latitude 32.112215	Longitude -103.905726	County EDDY
First Take Point (FTP)									
UL N	Section 20	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,570' FWL	Latitude 32.108545	Longitude -103.906997	County EDDY
Last Take Point (LTP)									
UL C	Section 17	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,570' FWL	Latitude 32.137221	Longitude -103.907025	County EDDY
Unitized Area or Area of Uniform Interest NMNM=071016X		Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical			Ground Floor Elevation: 3,174'				
OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS				
<p><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></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</i></p> <p style="text-align: right;">9/23/24</p>					<p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>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.</p> <p style="text-align: right;"> 13 Sept 2024 </p>				
Signature Adrian baker		Date			Signature and Seal of Professional Surveyor				
Printed Name adrian.baker@exxonmobil.com		Email Address			Certificate Number TIM C. PAPPAS 21209		Date of Survey 7/12/2024		
<p><i>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.</i></p>									
<p>2821 West 7th Street., Ste 200 - Fort Worth, TX 76107 Ph: 817.349.9800 - Fax: 979.732.5271 TBPE Firm 17957 TBPLS Firm 10193887 www.fscinc.net</p>					<p>DATE: 9-12-2024 PROJECT NO: 2024060275 DRAWN BY: LM SCALE: CHECKED BY: CH SHEET: 1 OF 2 FIELD CREW: IR REVISION: NO</p>				

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.

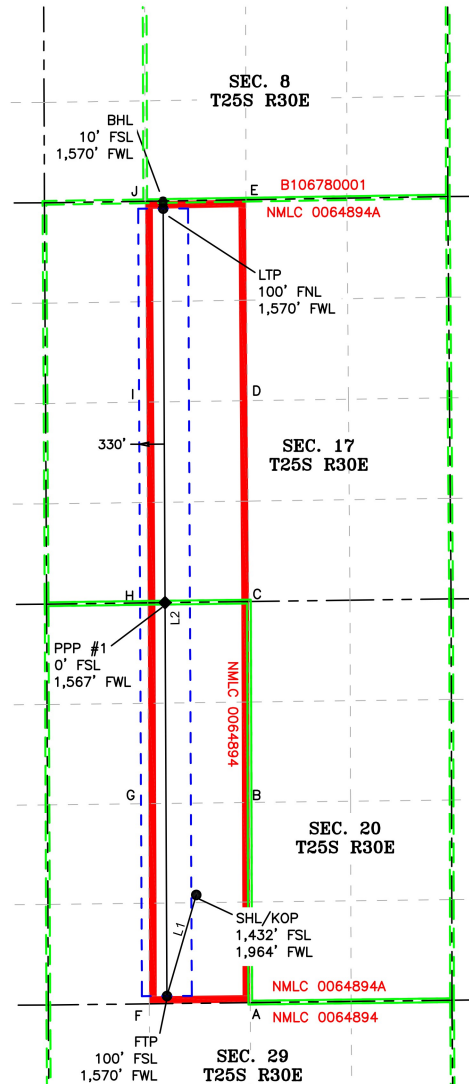
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	196° 11' 42"	1,392.10'
L2	359° 43' 33"	10,521.83'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			FTP (NAD 83 NME)		
Y =	404,822.8	N	Y =	403,486.0	N
X =	673,729.5	E	X =	673,341.2	E
LAT. =	32.112215	°N	LAT. =	32.108545	°N
LONG. =	103.905726	°W	LONG. =	103.906997	°W
LTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	413,917.7	N	Y =	414,007.7	N
X =	673,291.4	E	X =	673,290.9	E
LAT. =	32.137221	°N	LAT. =	32.137468	°N
LONG. =	103.907025	°W	LONG. =	103.907025	°W
SHL/KOP (NAD 27 NME)			FTP (NAD 27 NME)		
Y =	404,764.4	N	Y =	403,427.7	N
X =	632,544.7	E	X =	632,156.3	E
LAT. =	32.112090	°N	LAT. =	32.108420	°N
LONG. =	103.905243	°W	LONG. =	103.906514	°W
LTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	413,859.1	N	Y =	413,949.1	N
X =	632,106.9	E	X =	632,106.4	E
LAT. =	32.137096	°N	LAT. =	32.137343	°N
LONG. =	103.906540	°W	LONG. =	103.906541	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	408,702.2	N	Y =	408,643.7	N
X =	673,316.3	E	X =	632,131.6	E
LAT. =	32.122884	°N	LAT. =	32.122759	°N
LONG. =	103.907011	°W	LONG. =	103.906527	°W



CORNER COORDINATES (NAD83 NME)					
A - Y =	403,398.9	N	A - X =	674,444.4	E
B - Y =	406,057.8	N	B - X =	674,435.7	E
C - Y =	408,716.9	N	C - X =	674,426.9	E
D - Y =	411,375.4	N	D - X =	674,407.3	E
E - Y =	414,034.7	N	E - X =	674,387.7	E
F - Y =	403,383.2	N	F - X =	673,108.1	E
G - Y =	406,041.4	N	G - X =	673,098.4	E
H - Y =	408,699.2	N	H - X =	673,088.1	E
I - Y =	411,356.4	N	I - X =	673,071.3	E
J - Y =	414,014.0	N	J - X =	673,054.3	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,340.6	N	A - X =	633,259.5	E
B - Y =	405,999.4	N	B - X =	633,250.9	E
C - Y =	408,658.4	N	C - X =	633,242.2	E
D - Y =	411,316.9	N	D - X =	633,222.7	E
E - Y =	413,976.1	N	E - X =	633,203.2	E
F - Y =	403,324.9	N	F - X =	631,923.2	E
G - Y =	405,983.0	N	G - X =	631,913.6	E
H - Y =	408,640.7	N	H - X =	631,903.4	E
I - Y =	411,297.9	N	I - X =	631,886.7	E
J - Y =	413,955.4	N	J - X =	631,869.8	E



Drilling Plan Data Report

05/19/2025

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

APD ID: 10400100949

Submission Date: 09/23/2024

Highlighted data reflects the most recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

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
15648142	QUATERNARY	3174	0	0	ALLUVIUM	USEABLE WATER	N
15648144	RUSTLER	2296	878	878	ANHYDRITE, SANDSTONE	USEABLE WATER	N
15648145	SALADO	2146	1028	1028	SALT	NONE	N
15648146	BASE OF SALT	-253	3427	3427	SALT	NONE	N
15648147	DELAWARE	-460	3634	3634	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
15648149	BRUSHY CANYON	-3008	6182	6182	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
15648150	BONE SPRING	-4285	7459	7459	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15648151	BONE SPRING 1ST	-5009	8183	8183	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15648152	BONE SPRING 2ND	-5488	8662	8662	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15648155	BONE SPRING 3RD	-6354	9528	9528	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15648138	BONE SPRING 3RD	-6733	9907	9907	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Waeter	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10107

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

Requesting Variance? YES

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

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Choke Diagram Attachment:

Poker_Lake_Unit_20_17__20_8_BD__10MCM_20250318101321.pdf

BOP Diagram Attachment:

Poker_Lake_Unit_20_17__20_8_BD__5M10M_BOP_20250318101501.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	978	0	978	3174	2196	978	J-55	40	BUTT	6.44	1.37	DRY	16.1	DRY	16.1
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	9638	0	9193	3174	-6019	9638	L-80	29.7	FJ	1.97	2.19	DRY	2.42	DRY	2.42
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	21485	0	10107	3174	-6933	21485	P-110	20	OTHER - TPN/Wedge 441	2.07	1.26	DRY	2.19	DRY	2.19

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 20-17 BD

Well Number: 203H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

TPN_5.500_20.00_0.361_P110_ICY_20250318101657.pdf

Wedge_441_5.500_20.00_0.361_P110_ICY_20250318101657.pdf

Tapered String Spec:

Poker_Lake_Unit_20_17_BD_203H_Csg_20250318101729.pdf

Casing Design Assumptions and Worksheet(s):

Poker_Lake_Unit_20_17_BD_203H_Csg_20250318101758.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	978	220	1.87	10.5	411.4	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	978	130	1.35	14.8	175.5	100	Class C	2%cacl
INTERMEDIATE	Lead		0	6182	320	1.35	14.8	432	100	Class C	NA
INTERMEDIATE	Tail		6182	9638	700	1.33	14.8	931	100	Class C	NA

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		9338	9838	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		9838	2148 5	830	1.51	13.2	1253. 3	30	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	978	WATER-BASED MUD	8.4	8.9							
978	3634	SALT SATURATED	10.5	11							
3634	9638	OTHER : BDE/OBM	9	9.5							
9638	2148 5	OIL-BASED MUD	10.2	10.7							

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

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

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5624

Anticipated Surface Pressure: 3400

Anticipated Bottom Hole Temperature(F): 185

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240827123524.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Poker_Lake_Unit_20_17_BD_203H_DD_20240911110406.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Poker_Lake_Unit_20_17__20_8_BD_MBS_9.625_x_7.625_3String_20240827131502.pdf

NGMPForm_PLU_20_17_20_8_BD__18_19__18_30_20240911063348.pdf

Poker_Lake_Unit_20_17_BD_203H_Cmt_20240911110443.pdf

POKER_LAKE_UNIT_20_17__20_8_BD_H2S_DIA_PAD_B__PAD_D_Combined_20250318102325.pdf

Other Variance request(s)?: Y

Other Variance attachment:

BOP_Break_Test_Variance_20240827131930.pdf

Flex_Hose_Updated_20240827131622.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

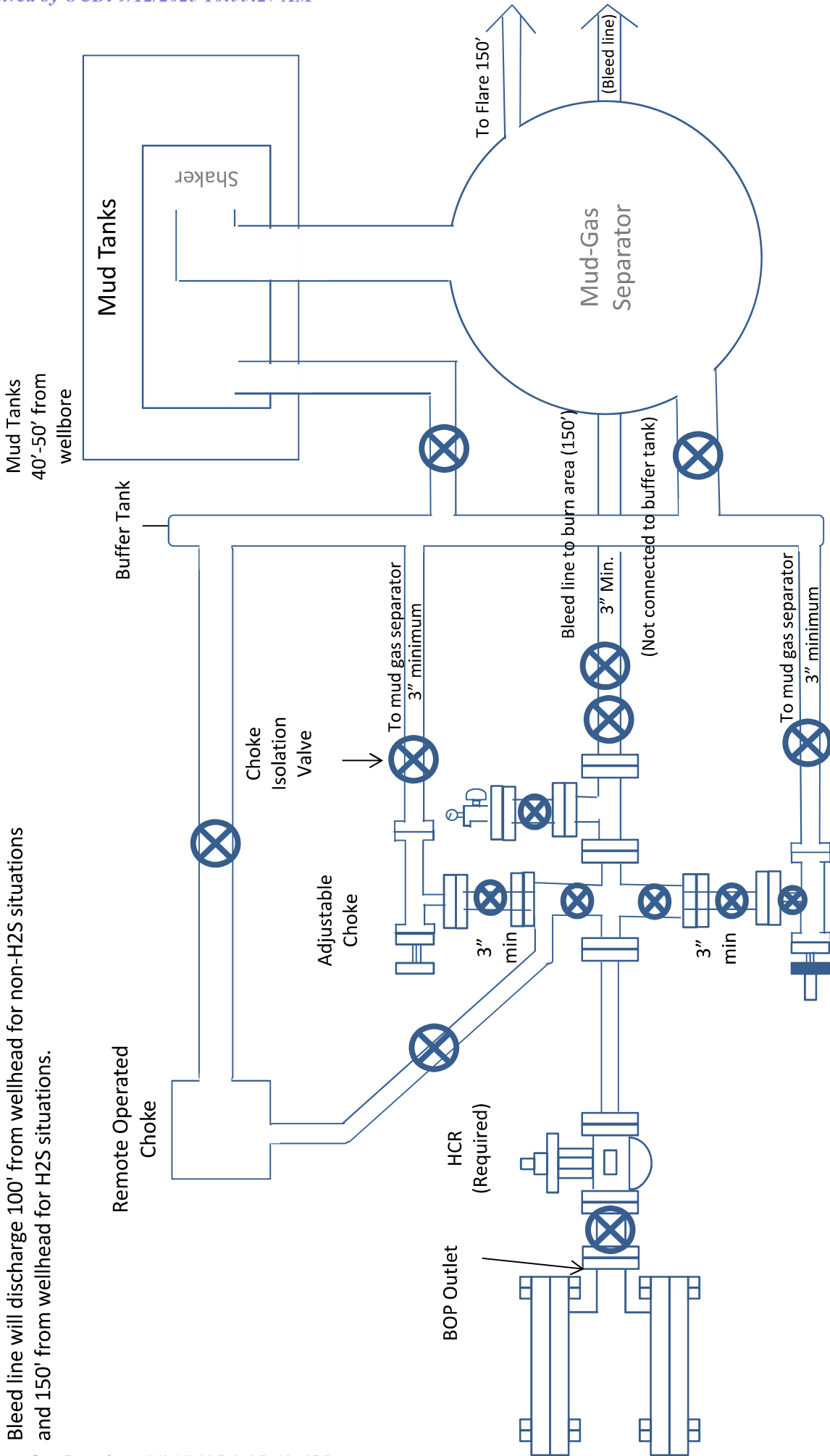
Well Number: 203H

Poker_Lake_Unit_20_17__20_8_BD__OLCV_20240827131923.pdf

Spudder_Rig_Request_20240827131622.pdf

CONFIDENTIAL

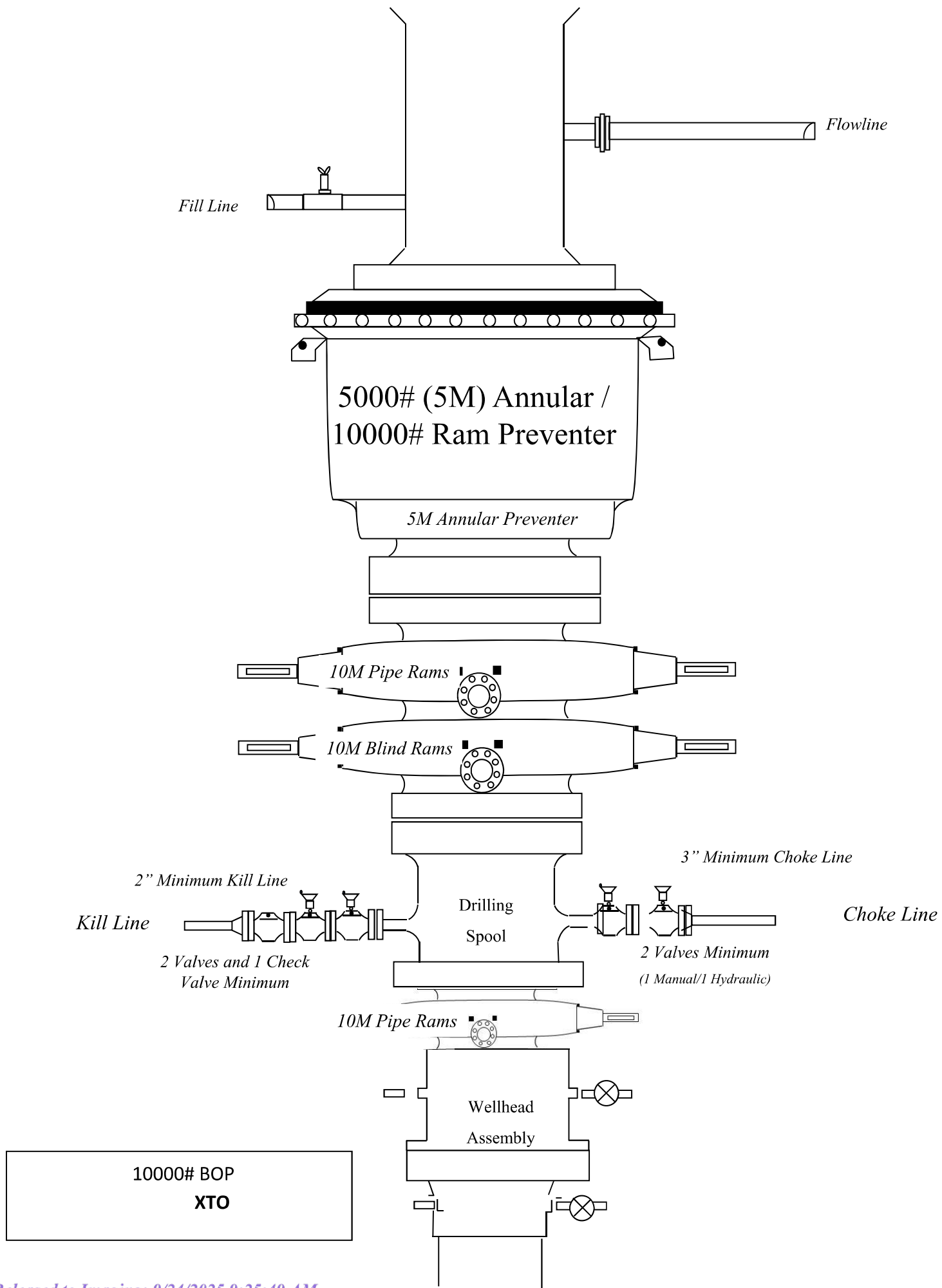
Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



10M Choke Manifold Diagram XTO

Drilling Operations Choke Manifold 10M Service

REMOTELY OPERATED Adjustable Choke





TenarisHydril Wedge 441®



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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	594 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	594 x1000 lb	Operating Torque	36,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	84.76 °/100 ft	Yield Torque	42,000 ft-lb
		External Pressure Capacity	12,300 psi	Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

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

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

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TPN™



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

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

Pipe Body Data

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

Connection Data

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

Notes

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

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PI-0/CII-3

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 978'	9.625	40	J-55	BTC	New	1.37	6.44	16.10
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.02	2.57	1.95
8.75	4000' – 9638.43'	7.625	29.7	HC L-80	Flush Joint	New	2.19	1.97	2.42
6.75	0' – 9538.43'	5.5	20	RY P-110 ICY	Semi-Premium/ TPN	New	1.26	2.19	2.19
6.75	9538.43' - 21485.45'	5.5	20	RY P-110 ICY	Semi-Flush/ Wedge441	New	1.26	2.07	2.19

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 978'	9.625	40	J-55	BTC	New	1.37	6.44	16.10
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.02	2.57	1.95
8.75	4000' – 9638.43'	7.625	29.7	HC L-80	Flush Joint	New	2.19	1.97	2.42
6.75	0' – 9538.43'	5.5	20	RY P-110 ICY	Semi-Premium/ TPN	New	1.26	2.19	2.19
6.75	9538.43' - 21485.45'	5.5	20	RY P-110 ICY	Semi-Flush/ Wedge441	New	1.26	2.07	2.19



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

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

575-887-7329

XTO PERSONNEL:

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

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

Carlsbad	911
Eunice	575-885-2111
Hobbs	575-394-2111
Jal	575-397-9308
Lovington	575-395-2221
	575-396-2359

HOSPITALS:

Carlsbad Medical Emergency	911
Eunice Medical Emergency	575-885-2111
Hobbs Medical Emergency	575-394-2112
Jal Medical Emergency	575-397-9308
Lovington Medical Emergency	575-395-2221
	575-396-2359

AGENT NOTIFICATIONS:

For Lea County:

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

For Eddy County:

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

Well Plan Report - Poker Lake Unit 20-17 BD 203H

Measured Depth: 21485.45 ft
TVD RKB: 10107.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 404764.40 ft
Easting: 632544.70 ft
RKB: 3206.00 ft
Ground Level: 3174.00 ft
North Reference: Grid
Convergence Angle: 0.23 Deg

Plan Sections

Measured		Poker Lake Unit 20-17 BD 203H				TVD		Build		Turn		Dogleg	
Depth (ft)	Inclination (Deg)	Azimuth (Deg)	RKB (ft)	Y Offset (ft)	X Offset (ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Semi-major	Semi-minor
0.00	0.00	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	0.00	0.00
2439.95	26.80	190.62	2391.62	-302.42	-56.72	2.00	2.00	2.00	0.00	0.00	2.00	8.00	FTP 3
5707.68	26.80	190.62	5308.38	-1750.47	-328.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	LTP 3
7047.62	0.00	0.00	6600.00	-2052.89	-385.01	-2.00	-2.00	-2.00	0.00	0.00	2.00	0.00	BHL 3
9838.43	0.00	0.00	9390.80	-2052.89	-385.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10963.43	90.00	359.73	10107.00	-1336.70	-388.40	8.00	8.00	8.00	0.00	0.00	8.00	8.00	FTP 3
21394.94	90.00	359.73	10107.00	9094.70	-437.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	LTP 3
21485.45	90.00	359.73	10107.00	9185.21	-438.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	BHL 3

Position Uncertainty

Measured

Well Plan Report

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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (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	0.000	0.000	XOMR2_OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.000	0.358	0.000	0.179	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.309	0.000	0.000	0.000	0.717	0.000	0.538	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	0.000	1.075	0.000	0.896	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.346	0.000	0.000	0.000	1.434	0.000	1.255	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.373	0.000	0.000	0.000	1.792	0.000	1.613	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.405	0.000	0.000	0.000	2.151	0.000	1.972	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.441	0.000	0.000	0.000	2.509	0.000	2.330	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.483	0.000	0.000	0.000	2.868	0.000	2.689	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.528	0.000	0.000	0.000	3.226	0.000	3.047	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.577	0.000	0.000	0.000	3.585	0.000	3.405	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.630	0.000	0.000	0.000	3.943	0.000	3.764	0.000	90.000	XOMR2_OWSG MWD+IFR1+MS
1200.000	2.000	190.622	1199.980	4.276	-0.000	4.110	0.000	2.686	0.000	0.000	0.000	4.284	0.000	4.104	89.997	90.000	XOMR2_OWSG MWD+IFR1+MS
1300.000	4.000	190.622	1299.838	4.597	-0.000	4.436	0.000	2.742	0.000	0.000	0.000	4.613	0.000	4.429	90.033	90.000	XOMR2_OWSG MWD+IFR1+MS
1400.000	6.000	190.622	1399.452	4.917	-0.000	4.766	0.000	2.800	0.000	0.000	0.000	4.946	0.000	4.759	90.040	90.000	XOMR2_OWSG MWD+IFR1+MS
1500.000	8.000	190.622	1498.702	5.235	-0.000	5.101	0.000	2.859	0.000	0.000	0.000	5.283	0.000	5.094	89.969	89.969	XOMR2_OWSG MWD+IFR1+MS
1600.000	10.000	190.622	1597.465	5.552	-0.000	5.441	0.000	2.920	0.000	0.000	0.000	5.623	0.000	5.435	89.772	89.772	XOMR2_OWSG MWD+IFR1+MS
1700.000	12.000	190.622	1695.623	5.868	-0.000	5.788	0.000	2.982	0.000	0.000	0.000	5.966	0.000	5.781	89.392	89.392	XOMR2_OWSG MWD+IFR1+MS
1800.000	14.000	190.622	1793.055	6.182	-0.000	6.142	0.000	3.048	0.000	0.000	0.000	6.312	0.000	6.134	88.743	88.743	XOMR2_OWSG MWD+IFR1+MS

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1900,000	16,000	190,622	1889,643	6,494	-0,000	6,504	0,000	3,118	0,000	0,000	6,661	6,495	87,676	XOMR2_OWSG MWD+IFR1+MS
2000,000	18,000	190,622	1985,268	6,807	-0,000	6,875	0,000	3,194	0,000	0,000	7,013	6,865	85,892	XOMR2_OWSG MWD+IFR1+MS
2100,000	20,000	190,622	2079,816	7,119	-0,000	7,256	0,000	3,276	0,000	0,000	7,368	7,244	82,728	XOMR2_OWSG MWD+IFR1+MS
2200,000	22,000	190,622	2173,169	7,431	-0,000	7,648	0,000	3,367	0,000	0,000	7,728	7,632	76,469	XOMR2_OWSG MWD+IFR1+MS
2300,000	24,000	190,622	2265,215	7,744	-0,000	8,052	0,000	3,469	0,000	0,000	8,098	8,025	62,821	XOMR2_OWSG MWD+IFR1+MS
2400,000	26,000	190,622	2355,841	8,058	-0,000	8,470	0,000	3,583	0,000	0,000	8,490	8,411	41,296	XOMR2_OWSG MWD+IFR1+MS
2439,946	26,799	190,622	2391,620	8,184	-0,000	8,639	0,000	3,626	0,000	0,000	8,655	8,563	35,174	XOMR2_OWSG MWD+IFR1+MS
2500,000	26,799	190,622	2445,225	8,427	-0,000	8,897	0,000	3,712	0,000	0,000	8,908	8,784	27,393	XOMR2_OWSG MWD+IFR1+MS
2600,000	26,799	190,622	2534,484	8,838	-0,000	9,337	0,000	3,869	0,000	0,000	9,343	9,149	20,637	XOMR2_OWSG MWD+IFR1+MS
2700,000	26,799	190,622	2623,744	9,255	-0,000	9,785	0,000	4,034	0,000	0,000	9,789	9,518	17,460	XOMR2_OWSG MWD+IFR1+MS
2800,000	26,799	190,622	2713,003	9,678	-0,000	10,240	0,000	4,206	0,000	0,000	10,243	9,892	15,653	XOMR2_OWSG MWD+IFR1+MS
2900,000	26,799	190,622	2802,262	10,106	-0,000	10,701	0,000	4,384	0,000	0,000	10,703	10,269	14,494	XOMR2_OWSG MWD+IFR1+MS
3000,000	26,799	190,622	2891,522	10,538	-0,000	11,167	0,000	4,568	0,000	0,000	11,169	10,651	13,688	XOMR2_OWSG MWD+IFR1+MS
3100,000	26,799	190,622	2980,781	10,975	-0,000	11,638	0,000	4,757	0,000	0,000	11,639	11,036	13,095	XOMR2_OWSG MWD+IFR1+MS
3200,000	26,799	190,622	3070,041	11,415	-0,000	12,113	0,000	4,950	0,000	0,000	12,114	11,425	12,641	XOMR2_OWSG MWD+IFR1+MS
3300,000	26,799	190,622	3159,300	11,858	-0,000	12,591	0,000	5,147	0,000	0,000	12,592	11,816	12,281	XOMR2_OWSG MWD+IFR1+MS
3400,000	26,799	190,622	3248,560	12,303	-0,000	13,073	0,000	5,348	0,000	0,000	13,074	12,210	11,990	XOMR2_OWSG MWD+IFR1+MS
3500,000	26,799	190,622	3337,819	12,752	-0,000	13,558	0,000	5,552	0,000	0,000	13,558	12,607	11,748	XOMR2_OWSG MWD+IFR1+MS
3600,000	26,799	190,622	3427,078	13,202	-0,000	14,045	0,000	5,759	0,000	0,000	14,045	13,005	11,545	XOMR2_OWSG MWD+IFR1+MS
3700,000	26,799	190,622	3516,338	13,655	-0,000	14,535	0,000	5,969	0,000	0,000	14,535	13,406	11,371	XOMR2_OWSG MWD+IFR1+MS

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3800.000	26.799	190.622	3605.597	14.109	-0.000	15.026	0.000	6.182	0.000	0.000	15.026	13.809	11.221	XOMR2_OWSG MWD+IFR1+MS
3900.000	26.799	190.622	3694.857	14.565	-0.000	15.520	0.000	6.396	0.000	0.000	15.520	14.214	11.090	XOMR2_OWSG MWD+IFR1+MS
4000.000	26.799	190.622	3784.116	15.023	-0.000	16.015	0.000	6.613	0.000	0.000	16.015	14.620	10.974	XOMR2_OWSG MWD+IFR1+MS
4100.000	26.799	190.622	3873.376	15.481	-0.000	16.512	0.000	6.832	0.000	0.000	16.512	15.028	10.872	XOMR2_OWSG MWD+IFR1+MS
4200.000	26.799	190.622	3962.635	15.942	-0.000	17.010	0.000	7.053	0.000	0.000	17.010	15.437	10.780	XOMR2_OWSG MWD+IFR1+MS
4300.000	26.799	190.622	4051.895	16.403	-0.000	17.510	0.000	7.275	0.000	0.000	17.510	15.847	10.697	XOMR2_OWSG MWD+IFR1+MS
4400.000	26.799	190.622	4141.154	16.865	-0.000	18.011	0.000	7.499	0.000	0.000	18.011	16.258	10.623	XOMR2_OWSG MWD+IFR1+MS
4500.000	26.799	190.622	4230.413	17.328	-0.000	18.513	0.000	7.725	0.000	0.000	18.513	16.671	10.555	XOMR2_OWSG MWD+IFR1+MS
4600.000	26.799	190.622	4319.673	17.793	-0.000	19.016	0.000	7.952	0.000	0.000	19.016	17.084	10.493	XOMR2_OWSG MWD+IFR1+MS
4700.000	26.799	190.622	4408.932	18.258	-0.000	19.519	0.000	8.181	0.000	0.000	19.519	17.499	10.436	XOMR2_OWSG MWD+IFR1+MS
4800.000	26.799	190.622	4498.192	18.723	-0.000	20.024	0.000	8.411	0.000	0.000	20.024	17.914	10.384	XOMR2_OWSG MWD+IFR1+MS
4900.000	26.799	190.622	4587.451	19.190	-0.000	20.530	0.000	8.642	0.000	0.000	20.530	18.331	10.335	XOMR2_OWSG MWD+IFR1+MS
5000.000	26.799	190.622	4676.711	19.657	-0.000	21.036	0.000	8.875	0.000	0.000	21.036	18.748	10.291	XOMR2_OWSG MWD+IFR1+MS
5100.000	26.799	190.622	4765.970	20.124	-0.000	21.543	0.000	9.109	0.000	0.000	21.543	19.166	10.249	XOMR2_OWSG MWD+IFR1+MS
5200.000	26.799	190.622	4855.230	20.593	-0.000	22.051	0.000	9.344	0.000	0.000	22.051	19.584	10.210	XOMR2_OWSG MWD+IFR1+MS
5300.000	26.799	190.622	4944.489	21.062	-0.000	22.559	0.000	9.581	0.000	0.000	22.559	20.004	10.174	XOMR2_OWSG MWD+IFR1+MS
5400.000	26.799	190.622	5033.748	21.531	-0.000	23.068	0.000	9.818	0.000	0.000	23.068	20.424	10.140	XOMR2_OWSG MWD+IFR1+MS
5500.000	26.799	190.622	5123.008	22.001	-0.000	23.577	0.000	10.057	0.000	0.000	23.577	20.844	10.108	XOMR2_OWSG MWD+IFR1+MS
5600.000	26.799	190.622	5212.267	22.471	-0.000	24.087	0.000	10.297	0.000	0.000	24.087	21.265	10.078	XOMR2_OWSG MWD+IFR1+MS
5707.678	26.799	190.622	5308.380	22.977	-0.000	24.636	0.000	10.556	0.000	0.000	24.637	21.719	10.047	XOMR2_OWSG MWD+IFR1+MS

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5800,000	24.952	190.622	5391.442	23.466	-0.000	25.101	0.000	10.777	0.000	0.000	25.102	22.106	10.023	XOMR2_OWSG MWD+IFR1+MS
5900,000	22.952	190.622	5482.826	23.959	-0.000	25.591	0.000	11.005	0.000	0.000	25.592	22.522	9.998	XOMR2_OWSG MWD+IFR1+MS
6000,000	20.952	190.622	5575.571	24.414	-0.000	26.066	0.000	11.218	0.000	0.000	26.066	22.933	9.975	XOMR2_OWSG MWD+IFR1+MS
6100,000	18.952	190.622	5669.564	24.830	-0.000	26.525	0.000	11.418	0.000	0.000	26.525	23.338	9.952	XOMR2_OWSG MWD+IFR1+MS
6200,000	16.952	190.622	5764.690	25.204	-0.000	26.967	0.000	11.605	0.000	0.000	26.968	23.737	9.931	XOMR2_OWSG MWD+IFR1+MS
6300,000	14.952	190.622	5860.834	25.538	-0.000	27.393	0.000	11.779	0.000	0.000	27.394	24.127	9.912	XOMR2_OWSG MWD+IFR1+MS
6400,000	12.952	190.622	5957.879	25.830	-0.000	27.802	0.000	11.941	0.000	0.000	27.802	24.507	9.893	XOMR2_OWSG MWD+IFR1+MS
6500,000	10.952	190.622	6055.706	26.079	-0.000	28.193	0.000	12.093	0.000	0.000	28.194	24.878	9.876	XOMR2_OWSG MWD+IFR1+MS
6600,000	8.952	190.622	6154.196	26.286	-0.000	28.567	0.000	12.234	0.000	0.000	28.568	25.237	9.860	XOMR2_OWSG MWD+IFR1+MS
6700,000	6.952	190.622	6253.229	26.450	-0.000	28.924	0.000	12.367	0.000	0.000	28.925	25.584	9.846	XOMR2_OWSG MWD+IFR1+MS
6800,000	4.952	190.622	6352.685	26.570	-0.000	29.263	0.000	12.491	0.000	0.000	29.264	25.918	9.833	XOMR2_OWSG MWD+IFR1+MS
6900,000	2.952	190.622	6452.442	26.649	-0.000	29.585	0.000	12.609	0.000	0.000	29.586	26.238	9.821	XOMR2_OWSG MWD+IFR1+MS
7000,000	0.952	190.622	6552.379	26.684	-0.000	29.890	0.000	12.720	0.000	0.000	29.890	26.544	9.811	XOMR2_OWSG MWD+IFR1+MS
7047,623	0.000	0.000	6600.000	26.784	0.000	29.927	0.000	12.772	0.000	0.000	30.019	26.681	9.821	XOMR2_OWSG MWD+IFR1+MS
7100,000	0.000	0.000	6652.377	26.927	0.000	30.056	0.000	12.828	0.000	0.000	30.148	26.824	9.848	XOMR2_OWSG MWD+IFR1+MS
7200,000	0.000	0.000	6752.377	27.203	0.000	30.303	0.000	12.937	0.000	0.000	30.395	27.100	9.900	XOMR2_OWSG MWD+IFR1+MS
7300,000	0.000	0.000	6852.377	27.481	0.000	30.552	0.000	13.050	0.000	0.000	30.644	27.378	9.952	XOMR2_OWSG MWD+IFR1+MS
7400,000	0.000	0.000	6952.377	27.760	0.000	30.803	0.000	13.165	0.000	0.000	30.895	27.657	10.003	XOMR2_OWSG MWD+IFR1+MS
7500,000	0.000	0.000	7052.377	28.041	0.000	31.056	0.000	13.284	0.000	0.000	31.149	27.938	10.055	XOMR2_OWSG MWD+IFR1+MS
7600,000	0.000	0.000	7152.377	28.324	0.000	31.311	0.000	13.405	0.000	0.000	31.405	28.221	10.107	XOMR2_OWSG MWD+IFR1+MS

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7700.000	0.000	0.000	7252.377	28.609	0.000	31.569	0.000	13.530	0.000	0.000	31.662	28.506	10.158	XOMR2_OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7352.377	28.895	0.000	31.828	0.000	13.658	0.000	0.000	31.922	28.792	10.210	XOMR2_OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7452.377	29.183	0.000	32.089	0.000	13.789	0.000	0.000	32.183	29.080	10.261	XOMR2_OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7552.377	29.473	0.000	32.352	0.000	13.923	0.000	0.000	32.446	29.369	10.312	XOMR2_OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7652.377	29.764	0.000	32.617	0.000	14.060	0.000	0.000	32.712	29.660	10.364	XOMR2_OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7752.377	30.056	0.000	32.884	0.000	14.200	0.000	0.000	32.978	29.952	10.415	XOMR2_OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7852.377	30.350	0.000	33.152	0.000	14.344	0.000	0.000	33.247	30.246	10.466	XOMR2_OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7952.377	30.645	0.000	33.422	0.000	14.491	0.000	0.000	33.517	30.541	10.517	XOMR2_OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8052.377	30.942	0.000	33.694	0.000	14.642	0.000	0.000	33.789	30.838	10.568	XOMR2_OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8152.377	31.239	0.000	33.968	0.000	14.796	0.000	0.000	34.063	31.136	10.620	XOMR2_OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8252.377	31.539	0.000	34.242	0.000	14.953	0.000	0.000	34.338	31.435	10.671	XOMR2_OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8352.377	31.839	0.000	34.519	0.000	15.113	0.000	0.000	34.615	31.735	10.721	XOMR2_OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8452.377	32.140	0.000	34.797	0.000	15.277	0.000	0.000	34.893	32.036	10.772	XOMR2_OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8552.377	32.443	0.000	35.076	0.000	15.445	0.000	0.000	35.172	32.339	10.823	XOMR2_OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8652.377	32.747	0.000	35.357	0.000	15.615	0.000	0.000	35.453	32.643	10.874	XOMR2_OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8752.377	33.052	0.000	35.639	0.000	15.790	0.000	0.000	35.736	32.948	10.925	XOMR2_OWSG MWD+IFR1+MS
9300.000	0.000	0.000	8852.377	33.358	0.000	35.923	0.000	15.967	0.000	0.000	36.019	33.254	10.975	XOMR2_OWSG MWD+IFR1+MS
9400.000	0.000	0.000	8952.377	33.665	0.000	36.208	0.000	16.149	0.000	0.000	36.305	33.560	11.026	XOMR2_OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9052.377	33.973	0.000	36.494	0.000	16.333	0.000	0.000	36.591	33.868	11.076	XOMR2_OWSG MWD+IFR1+MS
9600.000	0.000	0.000	9152.377	34.282	0.000	36.782	0.000	16.522	0.000	0.000	36.879	34.177	11.127	XOMR2_OWSG MWD+IFR1+MS

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9700.000	0.000	0.000	9252.377	34.592	0.000	37.070	0.000	16.713	0.000	0.000	37.167	34.487	11.177	XOMR2_OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9352.377	34.903	0.000	37.360	0.000	16.909	0.000	0.000	37.458	34.798	11.228	XOMR2_OWSG MWD+IFR1+MS
9838.426	0.000	0.000	9390.803	35.022	0.000	37.472	0.000	16.985	0.000	0.000	37.569	34.918	11.247	XOMR2_OWSG MWD+IFR1+MS
9900.000	4.926	359.729	9452.301	34.448	0.000	37.642	0.000	17.104	0.000	0.000	37.745	35.100	11.268	XOMR2_OWSG MWD+IFR1+MS
10000.000	12.926	359.729	9551.010	33.046	0.000	37.908	0.000	17.289	0.000	0.000	38.011	35.354	11.254	XOMR2_OWSG MWD+IFR1+MS
10100.000	20.926	359.729	9646.600	31.126	0.000	38.149	0.000	17.468	0.000	0.000	38.252	35.552	11.170	XOMR2_OWSG MWD+IFR1+MS
10200.000	28.926	359.729	9737.212	28.771	0.000	38.364	0.000	17.648	0.000	0.000	38.466	35.693	11.007	XOMR2_OWSG MWD+IFR1+MS
10300.000	36.926	359.729	9821.081	26.107	0.000	38.553	0.000	17.841	0.000	0.000	38.654	35.779	10.772	XOMR2_OWSG MWD+IFR1+MS
10400.000	44.926	359.729	9896.576	23.310	0.000	38.715	0.000	18.055	0.000	0.000	38.816	35.819	10.481	XOMR2_OWSG MWD+IFR1+MS
10500.000	52.926	359.729	9962.226	20.636	0.000	38.854	0.000	18.299	0.000	0.000	38.952	35.820	10.154	XOMR2_OWSG MWD+IFR1+MS
10600.000	60.926	359.729	10016.754	18.445	0.000	38.969	0.000	18.580	0.000	0.000	39.065	35.795	9.812	XOMR2_OWSG MWD+IFR1+MS
10700.000	68.926	359.729	10059.098	17.177	0.000	39.062	0.000	18.904	0.000	0.000	39.155	35.755	9.474	XOMR2_OWSG MWD+IFR1+MS
10800.000	76.926	359.729	10088.435	17.197	0.000	39.134	0.000	19.269	0.000	0.000	39.224	35.713	9.158	XOMR2_OWSG MWD+IFR1+MS
10900.000	84.926	359.729	10104.193	18.540	0.000	39.185	0.000	19.673	0.000	0.000	39.272	35.685	8.883	XOMR2_OWSG MWD+IFR1+MS
10963.426	90.000	359.729	10107.000	19.944	0.000	39.206	0.000	19.944	0.000	0.000	39.290	35.679	8.742	XOMR2_OWSG MWD+IFR1+MS
11000.000	90.000	359.729	10107.000	20.105	0.000	39.216	0.000	20.105	0.000	0.000	39.299	35.679	8.665	XOMR2_OWSG MWD+IFR1+MS
11100.000	90.000	359.729	10107.000	20.560	0.000	39.261	0.000	20.560	0.000	0.000	39.340	35.679	8.415	XOMR2_OWSG MWD+IFR1+MS
11200.000	90.000	359.729	10107.000	21.034	0.000	39.325	0.000	21.034	0.000	0.000	39.401	35.680	8.126	XOMR2_OWSG MWD+IFR1+MS
11300.000	90.000	359.729	10107.000	21.526	0.000	39.410	0.000	21.526	0.000	0.000	39.481	35.681	7.804	XOMR2_OWSG MWD+IFR1+MS
11400.000	90.000	359.729	10107.000	22.035	0.000	39.513	0.000	22.035	0.000	0.000	39.580	35.684	7.456	XOMR2_OWSG MWD+IFR1+MS

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11500.000	90.000	359.729	10107.000	22.560	0.000	39.636	0.000	22.560	0.000	0.000	39.699	35.687	7.090	XOMR2_OWSG MWD+IFR1+MS
11600.000	90.000	359.729	10107.000	23.100	0.000	39.778	0.000	23.100	0.000	0.000	39.836	35.690	6.712	XOMR2_OWSG MWD+IFR1+MS
11700.000	90.000	359.729	10107.000	23.654	0.000	39.939	0.000	23.654	0.000	0.000	39.993	35.695	6.329	XOMR2_OWSG MWD+IFR1+MS
11800.000	90.000	359.729	10107.000	24.220	0.000	40.119	0.000	24.220	0.000	0.000	40.168	35.700	5.946	XOMR2_OWSG MWD+IFR1+MS
11900.000	90.000	359.729	10107.000	24.798	0.000	40.317	0.000	24.798	0.000	0.000	40.363	35.705	5.568	XOMR2_OWSG MWD+IFR1+MS
12000.000	90.000	359.729	10107.000	25.387	0.000	40.533	0.000	25.387	0.000	0.000	40.575	35.711	5.200	XOMR2_OWSG MWD+IFR1+MS
12100.000	90.000	359.729	10107.000	25.987	0.000	40.768	0.000	25.987	0.000	0.000	40.805	35.717	4.843	XOMR2_OWSG MWD+IFR1+MS
12200.000	90.000	359.729	10107.000	26.596	0.000	41.019	0.000	26.596	0.000	0.000	41.054	35.724	4.501	XOMR2_OWSG MWD+IFR1+MS
12300.000	90.000	359.729	10107.000	27.215	0.000	41.288	0.000	27.215	0.000	0.000	41.320	35.731	4.176	XOMR2_OWSG MWD+IFR1+MS
12400.000	90.000	359.729	10107.000	27.841	0.000	41.574	0.000	27.841	0.000	0.000	41.603	35.738	3.867	XOMR2_OWSG MWD+IFR1+MS
12500.000	90.000	359.729	10107.000	28.476	0.000	41.877	0.000	28.476	0.000	0.000	41.902	35.746	3.576	XOMR2_OWSG MWD+IFR1+MS
12600.000	90.000	359.729	10107.000	29.117	0.000	42.195	0.000	29.117	0.000	0.000	42.219	35.754	3.303	XOMR2_OWSG MWD+IFR1+MS
12700.000	90.000	359.729	10107.000	29.766	0.000	42.530	0.000	29.766	0.000	0.000	42.551	35.763	3.047	XOMR2_OWSG MWD+IFR1+MS
12800.000	90.000	359.729	10107.000	30.421	0.000	42.880	0.000	30.421	0.000	0.000	42.899	35.772	2.808	XOMR2_OWSG MWD+IFR1+MS
12900.000	90.000	359.729	10107.000	31.082	0.000	43.245	0.000	31.082	0.000	0.000	43.262	35.782	2.585	XOMR2_OWSG MWD+IFR1+MS
13000.000	90.000	359.729	10107.000	31.749	0.000	43.625	0.000	31.749	0.000	0.000	43.640	35.792	2.378	XOMR2_OWSG MWD+IFR1+MS
13100.000	90.000	359.729	10107.000	32.421	0.000	44.019	0.000	32.421	0.000	0.000	44.033	35.803	2.186	XOMR2_OWSG MWD+IFR1+MS
13200.000	90.000	359.729	10107.000	33.098	0.000	44.427	0.000	33.098	0.000	0.000	44.440	35.814	2.007	XOMR2_OWSG MWD+IFR1+MS
13300.000	90.000	359.729	10107.000	33.780	0.000	44.849	0.000	33.780	0.000	0.000	44.860	35.826	1.842	XOMR2_OWSG MWD+IFR1+MS
13400.000	90.000	359.729	10107.000	34.466	0.000	45.284	0.000	34.466	0.000	0.000	45.294	35.838	1.688	XOMR2_OWSG MWD+IFR1+MS

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13500.000	90.000	359.729	10107.000	35.156	0.000	45.732	0.000	35.156	0.000	0.000	45.741	35.851	1.545	XOMR2_OWSG MWD+IFR1+MS	
13600.000	90.000	359.729	10107.000	35.850	0.000	46.192	0.000	35.850	0.000	0.000	46.200	35.864	1.413	XOMR2_OWSG MWD+IFR1+MS	
13700.000	90.000	359.729	10107.000	36.548	0.000	46.664	0.000	36.548	0.000	0.000	46.672	35.878	1.291	XOMR2_OWSG MWD+IFR1+MS	
13800.000	90.000	359.729	10107.000	37.249	0.000	47.149	0.000	37.249	0.000	0.000	47.155	35.892	1.177	XOMR2_OWSG MWD+IFR1+MS	
13900.000	90.000	359.729	10107.000	37.953	0.000	47.644	0.000	37.953	0.000	0.000	47.650	35.907	1.072	XOMR2_OWSG MWD+IFR1+MS	
14000.000	90.000	359.729	10107.000	38.661	0.000	48.150	0.000	38.661	0.000	0.000	48.155	35.923	0.974	XOMR2_OWSG MWD+IFR1+MS	
14100.000	90.000	359.729	10107.000	39.371	0.000	48.667	0.000	39.371	0.000	0.000	48.672	35.939	0.884	XOMR2_OWSG MWD+IFR1+MS	
14200.000	90.000	359.729	10107.000	40.084	0.000	49.195	0.000	40.084	0.000	0.000	49.199	35.956	0.799	XOMR2_OWSG MWD+IFR1+MS	
14300.000	90.000	359.729	10107.000	40.800	0.000	49.732	0.000	40.800	0.000	0.000	49.736	35.973	0.721	XOMR2_OWSG MWD+IFR1+MS	
14400.000	90.000	359.729	10107.000	41.519	0.000	50.279	0.000	41.519	0.000	0.000	50.283	35.991	0.648	XOMR2_OWSG MWD+IFR1+MS	
14500.000	90.000	359.729	10107.000	42.239	0.000	50.836	0.000	42.239	0.000	0.000	50.839	36.009	0.580	XOMR2_OWSG MWD+IFR1+MS	
14600.000	90.000	359.729	10107.000	42.962	0.000	51.401	0.000	42.962	0.000	0.000	51.404	36.028	0.517	XOMR2_OWSG MWD+IFR1+MS	
14700.000	90.000	359.729	10107.000	43.688	0.000	51.976	0.000	43.688	0.000	0.000	51.978	36.048	0.458	XOMR2_OWSG MWD+IFR1+MS	
14800.000	90.000	359.729	10107.000	44.415	0.000	52.558	0.000	44.415	0.000	0.000	52.560	36.068	0.403	XOMR2_OWSG MWD+IFR1+MS	
14900.000	90.000	359.729	10107.000	45.144	0.000	53.149	0.000	45.144	0.000	0.000	53.151	36.089	0.352	XOMR2_OWSG MWD+IFR1+MS	
15000.000	90.000	359.729	10107.000	45.875	0.000	53.748	0.000	45.875	0.000	0.000	53.750	36.111	0.304	XOMR2_OWSG MWD+IFR1+MS	
15100.000	90.000	359.729	10107.000	46.607	0.000	54.355	0.000	46.607	0.000	0.000	54.356	36.133	0.260	XOMR2_OWSG MWD+IFR1+MS	
15200.000	90.000	359.729	10107.000	47.342	0.000	54.969	0.000	47.342	0.000	0.000	54.970	36.156	0.218	XOMR2_OWSG MWD+IFR1+MS	
15300.000	90.000	359.729	10107.000	48.078	0.000	55.590	0.000	48.078	0.000	0.000	55.591	36.179	0.179	XOMR2_OWSG MWD+IFR1+MS	
15400.000	90.000	359.729	10107.000	48.815	0.000	56.218	0.000	48.815	0.000	0.000	56.219	36.203	0.142	XOMR2_OWSG MWD+IFR1+MS	

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15500.000	90.000	359.729	10107.000	49.554	0.000	56.853	0.000	49.554	0.000	56.854	0.000	36.228	0.108	XOMR2_OWSG MWD+IFR1+MS	
15600.000	90.000	359.729	10107.000	50.294	0.000	57.494	0.000	50.294	0.000	57.495	0.000	36.253	0.076	XOMR2_OWSG MWD+IFR1+MS	
15700.000	90.000	359.729	10107.000	51.036	0.000	58.142	0.000	51.036	0.000	58.142	0.000	36.279	0.046	XOMR2_OWSG MWD+IFR1+MS	
15800.000	90.000	359.729	10107.000	51.779	0.000	58.796	0.000	51.779	0.000	58.796	0.000	36.305	0.017	XOMR2_OWSG MWD+IFR1+MS	
15900.000	90.000	359.729	10107.000	52.523	0.000	59.455	0.000	52.523	0.000	59.455	0.000	36.332	-0.009	XOMR2_OWSG MWD+IFR1+MS	
16000.000	90.000	359.729	10107.000	53.268	0.000	60.120	0.000	53.268	0.000	60.120	0.000	36.360	-0.034	XOMR2_OWSG MWD+IFR1+MS	
16100.000	90.000	359.729	10107.000	54.015	0.000	60.791	0.000	54.015	0.000	60.791	0.000	36.389	-0.058	XOMR2_OWSG MWD+IFR1+MS	
16200.000	90.000	359.729	10107.000	54.762	0.000	61.467	0.000	54.762	0.000	61.467	0.000	36.417	-0.080	XOMR2_OWSG MWD+IFR1+MS	
16300.000	90.000	359.729	10107.000	55.511	0.000	62.148	0.000	55.511	0.000	62.148	0.000	36.447	-0.100	XOMR2_OWSG MWD+IFR1+MS	
16400.000	90.000	359.729	10107.000	56.260	0.000	62.834	0.000	56.260	0.000	62.834	0.000	36.477	-0.120	XOMR2_OWSG MWD+IFR1+MS	
16500.000	90.000	359.729	10107.000	57.010	0.000	63.525	0.000	57.010	0.000	63.525	0.000	36.508	-0.138	XOMR2_OWSG MWD+IFR1+MS	
16600.000	90.000	359.729	10107.000	57.762	0.000	64.220	0.000	57.762	0.000	64.220	0.000	36.539	-0.156	XOMR2_OWSG MWD+IFR1+MS	
16700.000	90.000	359.729	10107.000	58.514	0.000	64.920	0.000	58.514	0.000	64.920	0.000	36.571	-0.172	XOMR2_OWSG MWD+IFR1+MS	
16800.000	90.000	359.729	10107.000	59.267	0.000	65.624	0.000	59.267	0.000	65.624	0.000	36.604	-0.187	XOMR2_OWSG MWD+IFR1+MS	
16900.000	90.000	359.729	10107.000	60.021	0.000	66.333	0.000	60.021	0.000	66.333	0.000	36.637	-0.202	XOMR2_OWSG MWD+IFR1+MS	
17000.000	90.000	359.729	10107.000	60.776	0.000	67.045	0.000	60.776	0.000	67.045	0.000	36.671	-0.216	XOMR2_OWSG MWD+IFR1+MS	
17100.000	90.000	359.729	10107.000	61.531	0.000	67.762	0.000	61.531	0.000	67.762	0.000	36.706	-0.229	XOMR2_OWSG MWD+IFR1+MS	
17200.000	90.000	359.729	10107.000	62.287	0.000	68.482	0.000	62.287	0.000	68.482	0.000	36.741	-0.241	XOMR2_OWSG MWD+IFR1+MS	
17300.000	90.000	359.729	10107.000	63.044	0.000	69.207	0.000	63.044	0.000	69.207	0.000	36.776	-0.252	XOMR2_OWSG MWD+IFR1+MS	
17400.000	90.000	359.729	10107.000	63.802	0.000	69.934	0.000	63.802	0.000	69.934	0.000	36.813	-0.263	XOMR2_OWSG MWD+IFR1+MS	

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17500.000	90.000	359.729	10107.000	64.560	0.000	70.665	0.000	64.560	0.000	70.665	0.000	36.849	-0.274	XOMR2_OWSG MWD+IFR1+MS
17600.000	90.000	359.729	10107.000	65.319	0.000	71.400	0.000	65.319	0.000	71.400	0.000	36.887	-0.284	XOMR2_OWSG MWD+IFR1+MS
17700.000	90.000	359.729	10107.000	66.078	0.000	72.138	0.000	66.078	0.000	72.138	0.000	36.925	-0.293	XOMR2_OWSG MWD+IFR1+MS
17800.000	90.000	359.729	10107.000	66.838	0.000	72.879	0.000	66.838	0.000	72.879	0.000	36.964	-0.302	XOMR2_OWSG MWD+IFR1+MS
17900.000	90.000	359.729	10107.000	67.599	0.000	73.623	0.000	67.599	0.000	73.623	0.000	37.003	-0.310	XOMR2_OWSG MWD+IFR1+MS
18000.000	90.000	359.729	10107.000	68.360	0.000	74.370	0.000	68.360	0.000	74.370	0.000	37.043	-0.318	XOMR2_OWSG MWD+IFR1+MS
18100.000	90.000	359.729	10107.000	69.121	0.000	75.120	0.000	69.121	0.000	75.120	0.000	37.083	-0.325	XOMR2_OWSG MWD+IFR1+MS
18200.000	90.000	359.729	10107.000	69.884	0.000	75.873	0.000	69.884	0.000	75.873	0.000	37.124	-0.332	XOMR2_OWSG MWD+IFR1+MS
18300.000	90.000	359.729	10107.000	70.646	0.000	76.628	0.000	70.646	0.000	76.628	0.000	37.166	-0.339	XOMR2_OWSG MWD+IFR1+MS
18400.000	90.000	359.729	10107.000	71.409	0.000	77.386	0.000	71.409	0.000	77.386	0.000	37.208	-0.345	XOMR2_OWSG MWD+IFR1+MS
18500.000	90.000	359.729	10107.000	72.173	0.000	78.147	0.000	72.173	0.000	78.147	0.000	37.251	-0.351	XOMR2_OWSG MWD+IFR1+MS
18600.000	90.000	359.729	10107.000	72.937	0.000	78.910	0.000	72.937	0.000	78.910	0.000	37.294	-0.357	XOMR2_OWSG MWD+IFR1+MS
18700.000	90.000	359.729	10107.000	73.701	0.000	79.676	0.000	73.701	0.000	79.676	0.000	37.338	-0.362	XOMR2_OWSG MWD+IFR1+MS
18800.000	90.000	359.729	10107.000	74.466	0.000	80.444	0.000	74.466	0.000	80.444	0.000	37.383	-0.368	XOMR2_OWSG MWD+IFR1+MS
18900.000	90.000	359.729	10107.000	75.232	0.000	81.214	0.000	75.232	0.000	81.214	0.000	37.428	-0.372	XOMR2_OWSG MWD+IFR1+MS
19000.000	90.000	359.729	10107.000	75.997	0.000	81.987	0.000	75.997	0.000	81.987	0.000	37.473	-0.377	XOMR2_OWSG MWD+IFR1+MS
19100.000	90.000	359.729	10107.000	76.763	0.000	82.761	0.000	76.763	0.000	82.761	0.000	37.520	-0.381	XOMR2_OWSG MWD+IFR1+MS
19200.000	90.000	359.729	10107.000	77.530	0.000	83.538	0.000	77.530	0.000	83.538	0.000	37.567	-0.385	XOMR2_OWSG MWD+IFR1+MS
19300.000	90.000	359.729	10107.000	78.297	0.000	84.317	0.000	78.297	0.000	84.317	0.000	37.614	-0.389	XOMR2_OWSG MWD+IFR1+MS
19400.000	90.000	359.729	10107.000	79.064	0.000	85.098	0.000	79.064	0.000	85.098	0.000	37.662	-0.393	XOMR2_OWSG MWD+IFR1+MS

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19500.000	90.000	359.729	10107.000	79.831	0.000	85.880	0.000	79.831	0.000	0.000	85.880	37.710	-0.397	XOMR2_OWSG MWD+IFR1+MS	19600.000	90.000	359.729	10107.000	80.599	0.000	86.665	0.000	80.599	0.000	0.000	86.665	37.760	-0.400	XOMR2_OWSG MWD+IFR1+MS	19700.000	90.000	359.729	10107.000	81.368	0.000	87.451	0.000	81.368	0.000	0.000	87.451	37.809	-0.403	XOMR2_OWSG MWD+IFR1+MS	19800.000	90.000	359.729	10107.000	82.136	0.000	88.239	0.000	82.136	0.000	0.000	88.240	37.859	-0.406	XOMR2_OWSG MWD+IFR1+MS	19900.000	90.000	359.729	10107.000	82.905	0.000	89.029	0.000	82.905	0.000	0.000	89.029	37.910	-0.409	XOMR2_OWSG MWD+IFR1+MS	20000.000	90.000	359.729	10107.000	83.674	0.000	89.821	0.000	83.674	0.000	0.000	89.821	37.961	-0.412	XOMR2_OWSG MWD+IFR1+MS	20100.000	90.000	359.729	10107.000	84.443	0.000	90.614	0.000	84.443	0.000	0.000	90.614	38.013	-0.414	XOMR2_OWSG MWD+IFR1+MS	20200.000	90.000	359.729	10107.000	85.213	0.000	91.409	0.000	85.213	0.000	0.000	91.409	38.066	-0.417	XOMR2_OWSG MWD+IFR1+MS	20300.000	90.000	359.729	10107.000	85.983	0.000	92.205	0.000	85.983	0.000	0.000	92.206	38.119	-0.419	XOMR2_OWSG MWD+IFR1+MS	20400.000	90.000	359.729	10107.000	86.753	0.000	93.003	0.000	86.753	0.000	0.000	93.004	38.172	-0.421	XOMR2_OWSG MWD+IFR1+MS	20500.000	90.000	359.729	10107.000	87.524	0.000	93.803	0.000	87.524	0.000	0.000	93.803	38.226	-0.423	XOMR2_OWSG MWD+IFR1+MS	20600.000	90.000	359.729	10107.000	88.294	0.000	94.604	0.000	88.294	0.000	0.000	94.604	38.281	-0.425	XOMR2_OWSG MWD+IFR1+MS	20700.000	90.000	359.729	10107.000	89.065	0.000	95.406	0.000	89.065	0.000	0.000	95.406	38.336	-0.427	XOMR2_OWSG MWD+IFR1+MS	20800.000	90.000	359.729	10107.000	89.836	0.000	96.210	0.000	89.836	0.000	0.000	96.210	38.392	-0.429	XOMR2_OWSG MWD+IFR1+MS	20900.000	90.000	359.729	10107.000	90.608	0.000	97.015	0.000	90.608	0.000	0.000	97.015	38.448	-0.430	XOMR2_OWSG MWD+IFR1+MS	21000.000	90.000	359.729	10107.000	91.380	0.000	97.821	0.000	91.380	0.000	0.000	97.821	38.505	-0.432	XOMR2_OWSG MWD+IFR1+MS	21100.000	90.000	359.729	10107.000	92.151	0.000	98.628	0.000	92.151	0.000	0.000	98.629	38.562	-0.433	XOMR2_OWSG MWD+IFR1+MS	21200.000	90.000	359.729	10107.000	92.924	0.000	99.437	0.000	92.924	0.000	0.000	99.438	38.620	-0.435	XOMR2_OWSG MWD+IFR1+MS	21300.000	90.000	359.729	10107.000	93.696	0.000	100.247	0.000	93.696	0.000	0.000	100.248	38.678	-0.436	XOMR2_OWSG MWD+IFR1+MS	21394.943	90.000	359.729	10107.000	94.429	0.000	101.017	0.000	94.429	0.000	0.000	101.018	38.734	-0.437	XOMR2_OWSG MWD+IFR1+MS

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21400.000	90.000	359.729	10107.000	94.468	0.000	101.058	0.000	94.468	0.000	0.000	101.059	38.737	-0.437	XOMR2_OWSG MWD+IFR1+MS
21485.454	90.000	359.729	10107.000	95.129	0.000	101.752	0.000	95.129	0.000	0.000	101.752	38.787	-0.438	XOMR2_OWSG MWD+IFR1+MS

Poker Lake Unit 20-17 BD 203H

Plan Targets	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
Target Name					
FTP 3	10963.41	403427.70	632156.30	6901.00	CIRCLE
LTP 3	21394.94	413859.10	632106.90	6901.00	CIRCLE
BHL 3	21484.94	413949.10	632106.40	6901.00	CIRCLE

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 **OGRID:** 373075 **Date:** 07 / 29 / 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
Poker Lake Unit 20-17 BD 201	TBD	20 T25S R30E	1434 FSL; 1904 FWL	500	125	1,500	900	1,250	400
Poker Lake Unit 20-17 BD 202	TBD	20 T25S R30E	1433 FSL; 1934 FWL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 20-17 BD 203	TBD	20 T25S R30E	1432 FSL; 1964 FWL	500	125	1,500	900	1,250	400
Poker Lake Unit 20-17 BD 204	TBD	20 T25S R30E	1431 FSL; 1994 FWL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 20-8 BD 205	TBD	20 T25S R30E	1430 FSL; 2024 FWL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 20-8 BD 206	TBD	20 T25S R30E	1813 FSL; 1604 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 20-8 BD 207	TBD	20 T25S R30E	1813 FSL; 1574 FEL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 20-8 BD 208	TBD	20 T25S R30E	1813 FSL; 1544 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 20-8 BD 209	TBD	20 T25S R30E	1813 FSL; 1514 FEL	1,300	200	3,500	1,400	4,750	1,100

Poker Lake Unit 20-8 BD 210	TBD	20 T25S R30E	1813 FSL; 1484 FEL	600	75	7,250	2,700	4,750	900
Poker Lake Unit 18-30 BD 200H	TBD	18 T25S R30E	265 FNL; 2395 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 18-30 BD 201H	TBD	18 T25S R30E	265 FNL; 2365 FEL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 18-30 BD 202H	TBD	18 T25S R30E	265 FNL; 2335 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 18-30 BD 203H	TBD	18 T25S R30E	265 FNL; 2305 FEL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 18-19 BD 204H	TBD	18 T25S R30E	265 FNL; 2275 FEL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 18-19 BD 205H	TBD	18 T25S R30E	265 FNL; 1935 FEL	500	125	1,500	900	1,250	400
Poker Lake Unit 18-19 BD 206H	TBD	18 T25S R30E	265 FNL; 1905 FEL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 18-19 BD 207H	TBD	18 T25S R30E	265 FNL; 1875 FEL	500	125	1,500	900	1,250	400
Poker Lake Unit 18-19 BD 208H	TBD	18 T25S R30E	265 FNL; 1845 FEL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 18-19 BD 209H	TBD	18 T25S R30E	265 FNL; 1815 FEL	500	50	5,500	1,700	4,000	600

IV. Central Delivery Point Name: __PLU Brushy Draw 18 (PLU 18-30/18-19) and PLU Brushy Draw 20 (PLU 20-17/20-8) [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
Poker Lake Unit 20-17 BD 201	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 202	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 203	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 204	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 205	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 206	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 207	TBD	August 2025	TBD	TBD	TBD	TBD

Poker Lake Unit 20-8 BD 208	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 209	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 210	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 200H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 201H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 202H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 203H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 204H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 205H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 206H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 207H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 208H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 209H	TBD	October 2025	TBD	TBD	TBD	TBD

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

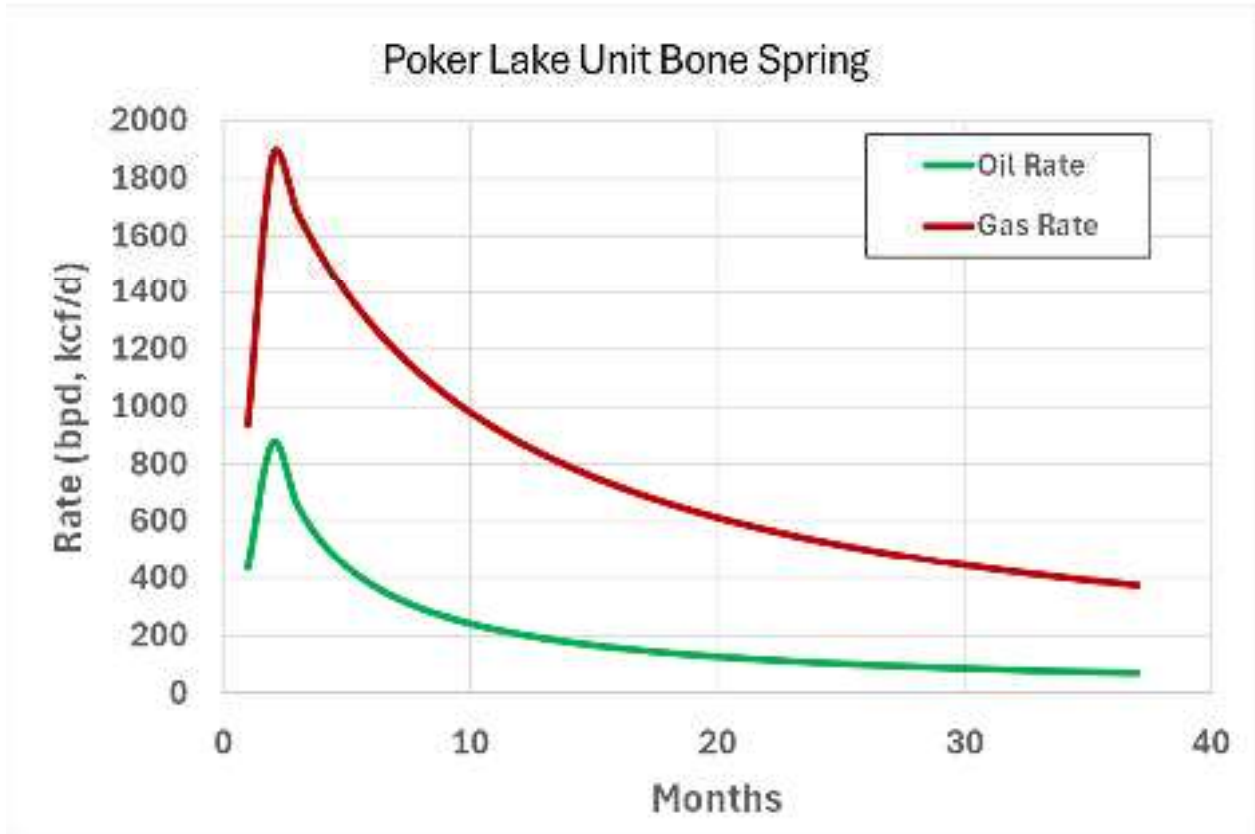
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have an adequate natural 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:	Adrian Baker
Title:	Environmental and Regulatory Advisor
E-mail Address:	nicj100@gmail.com
Date:	9/9/2024
Phone:	432-2363808

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

Approved By:
Title:
Approval Date:
Conditions of Approval:



Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6182') 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.

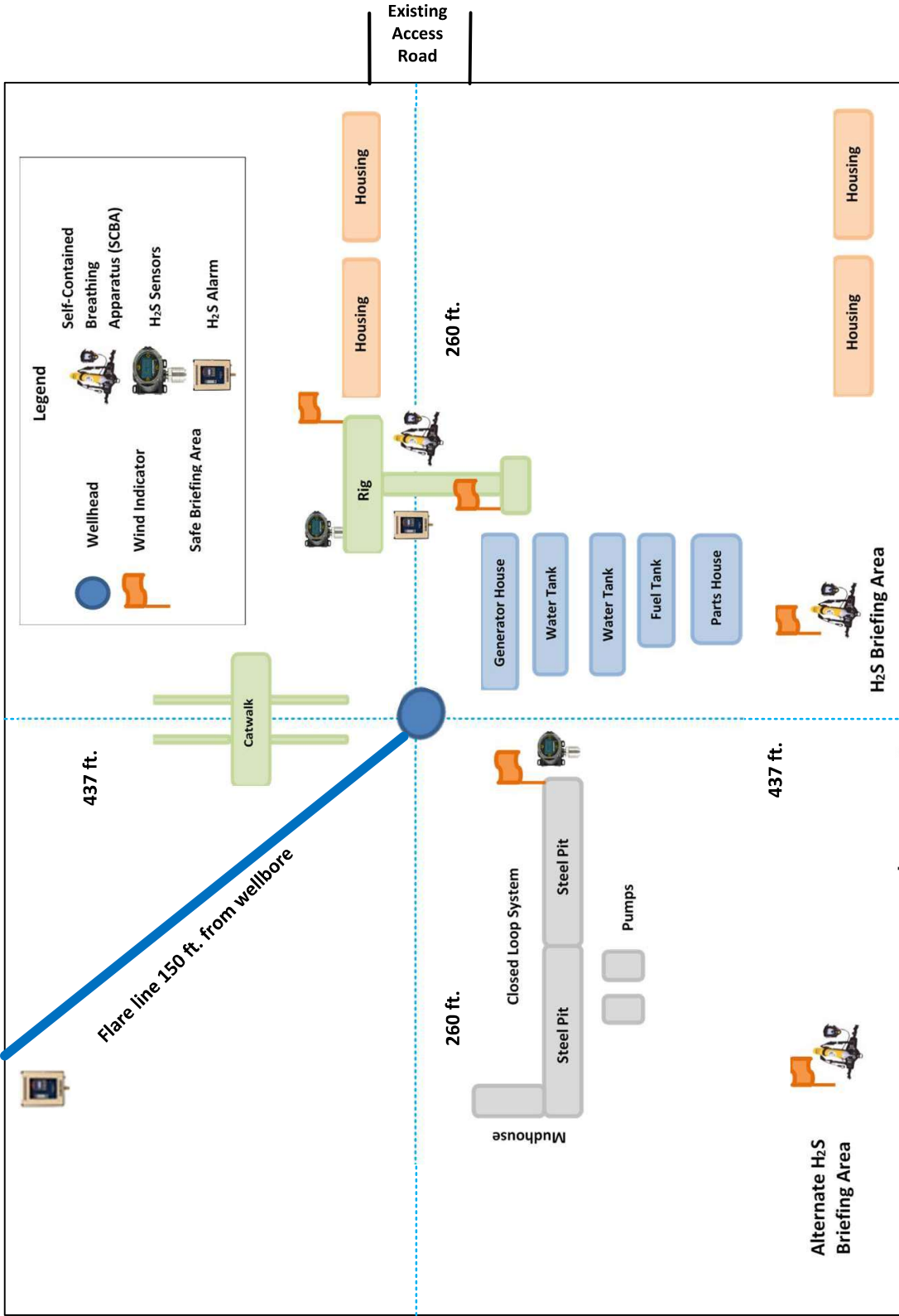
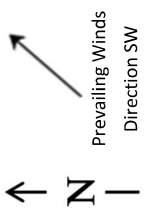
XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

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:

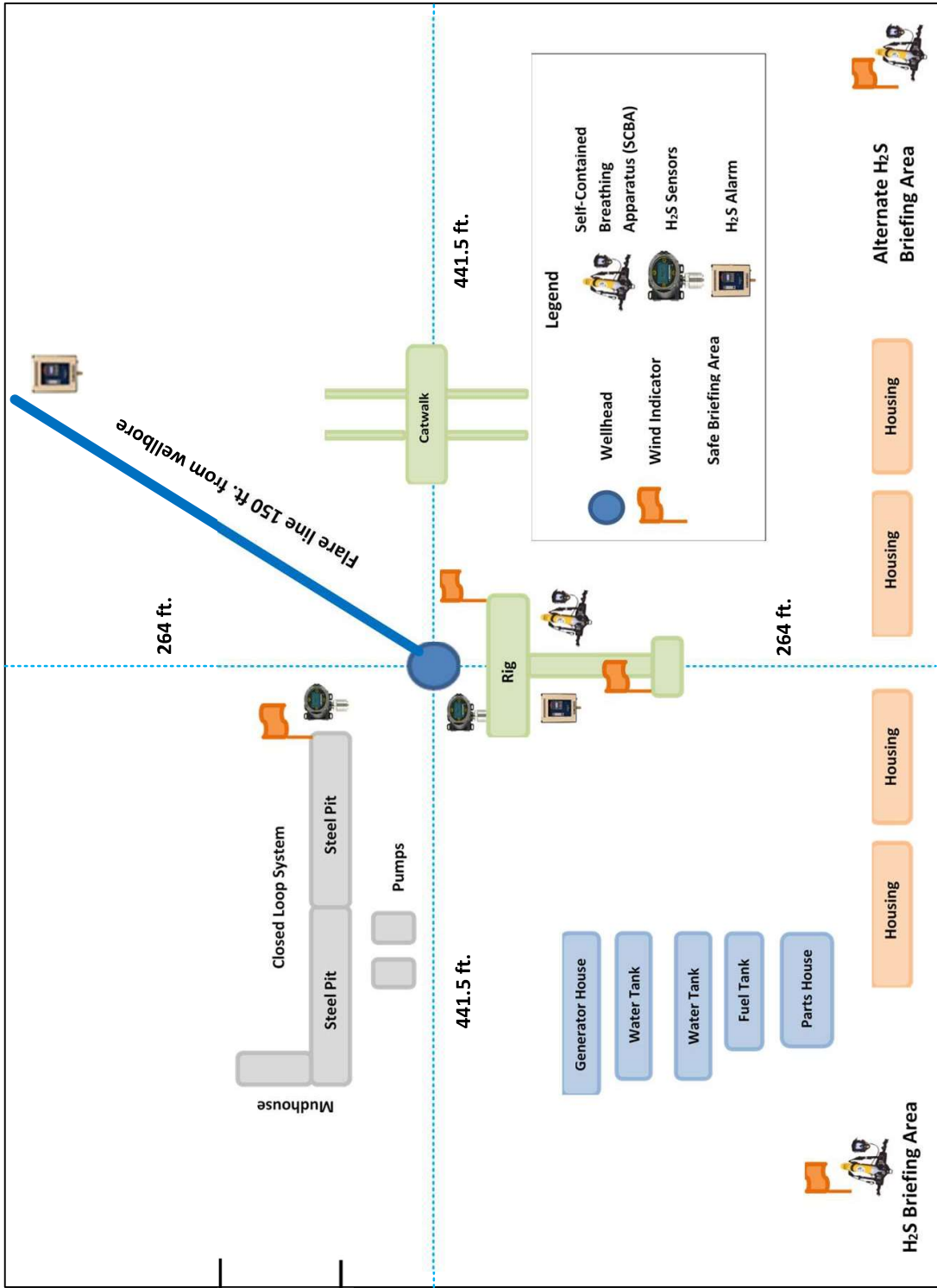
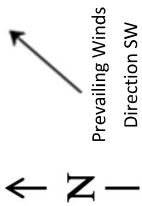
XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling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

H2S Briefing Areas and Alarm Locations Pad B



Secondary Egress

H2S Briefing Areas and Alarm Locations Pad D



Legend

- Wellhead
- Wind Indicator
- Safe Briefing Area
- Self-Contained Breathing Apparatus (SCBA)
- H2S Sensors
- H2S Alarm

Secondary Egress

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.

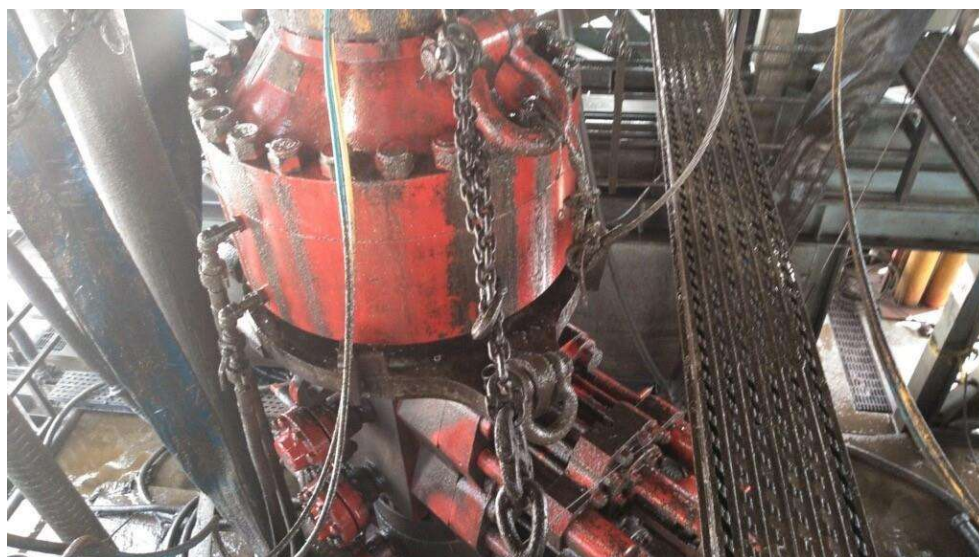


Figure 1: Winch System attached to BOP Stack

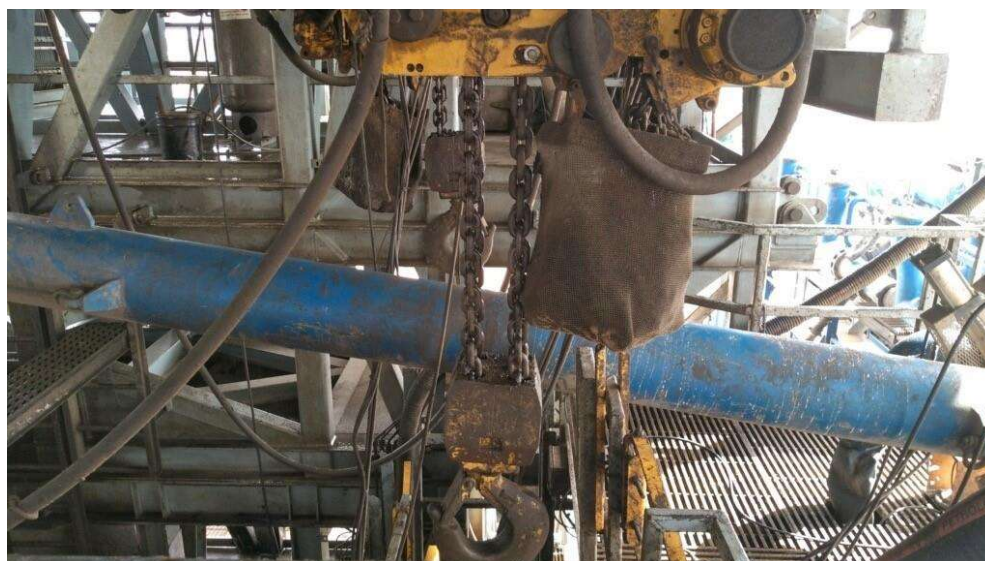


Figure 2: BOP Winch System

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 ^{3c} psig (MPa)	Pressure Test—High Pressure ^{3c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{5a}	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 ⁶	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ⁶	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	

³ 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.

⁵ Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^{5a} 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.

⁶ 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.

⁶ Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

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

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

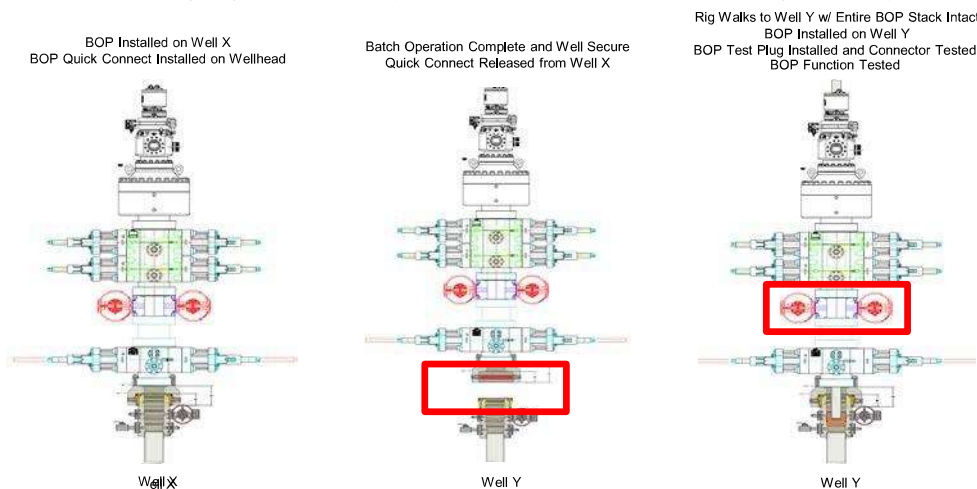
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

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

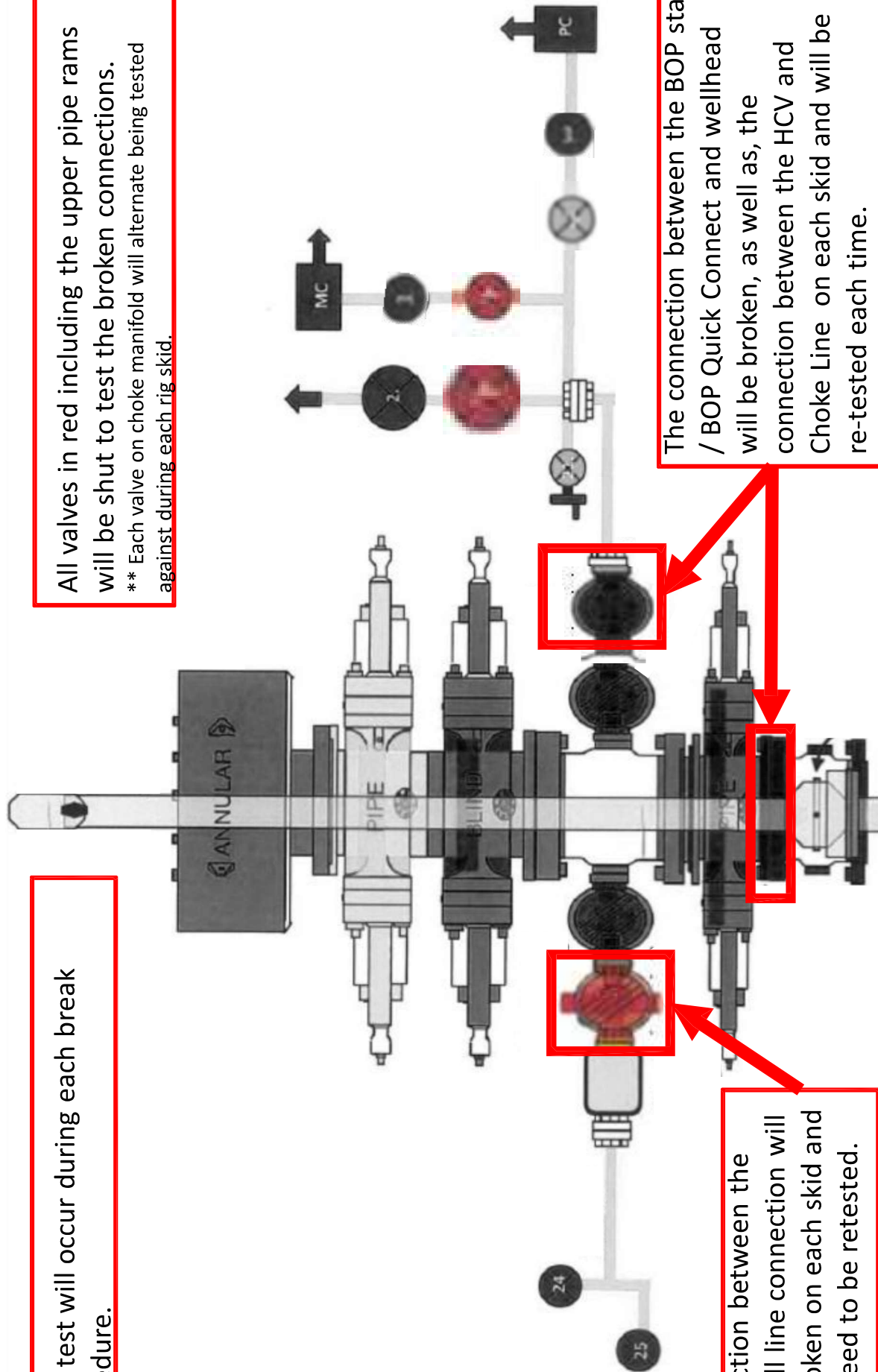
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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

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

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

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



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

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



BLACK GOLD®

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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:

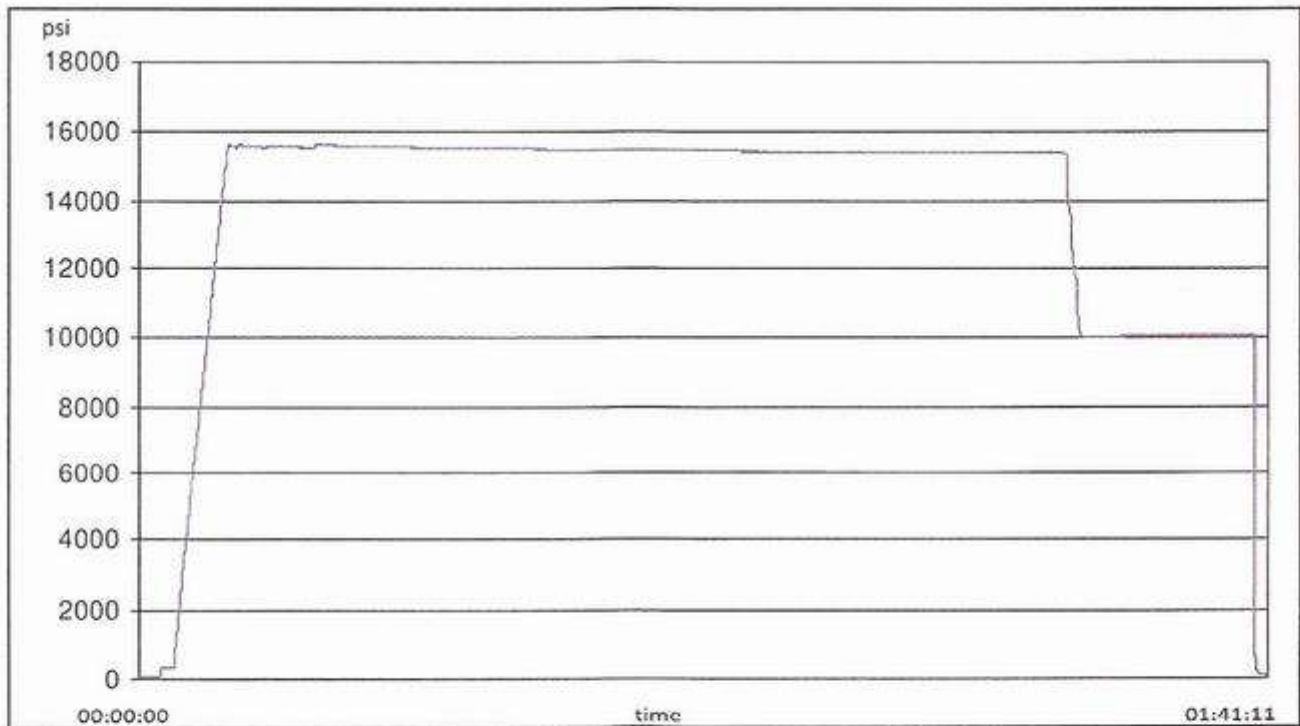
Visual check:

Length: 45 feet

Pressure test result: PASS

Length measurement result:

Test operator: Travis





H3-15/16

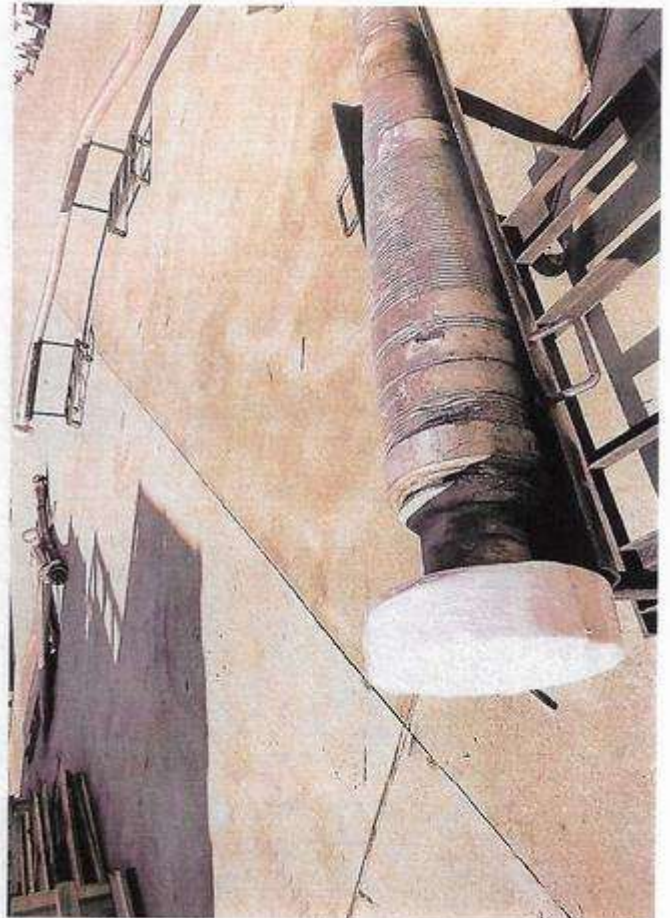
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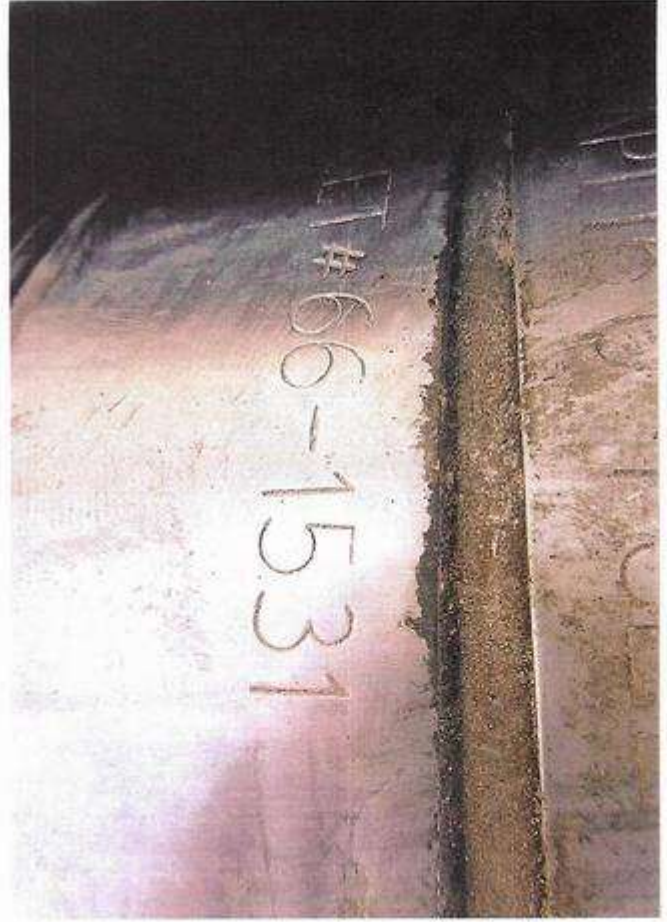
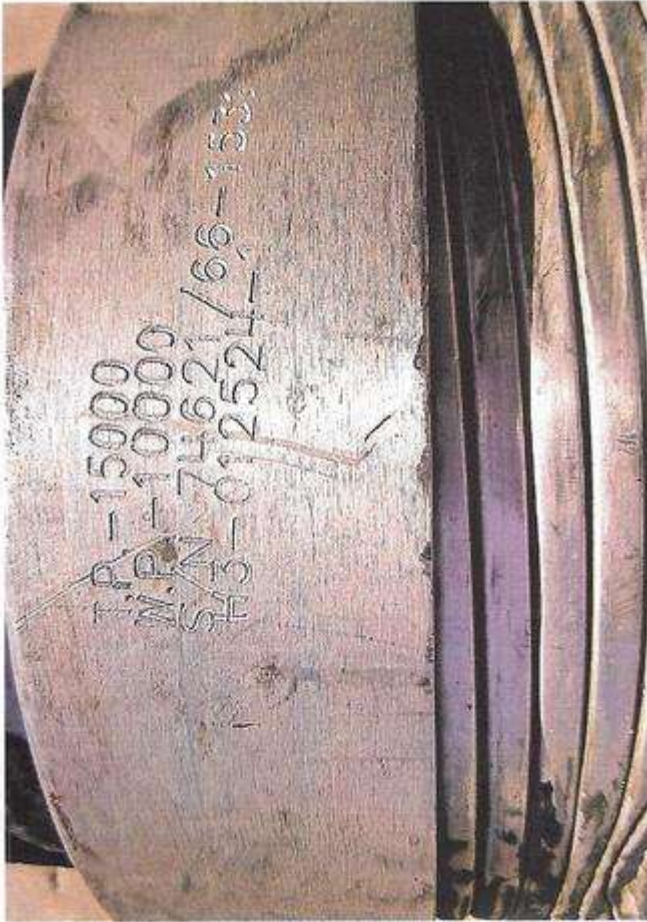
TEST REPORT

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 Permian Operating, LLC Offline Cementing Variance Request

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

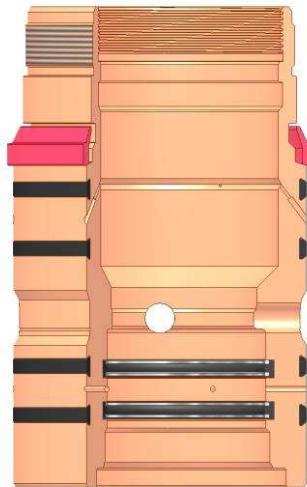
1. Cement Program

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

2. Offline Cementing Procedure

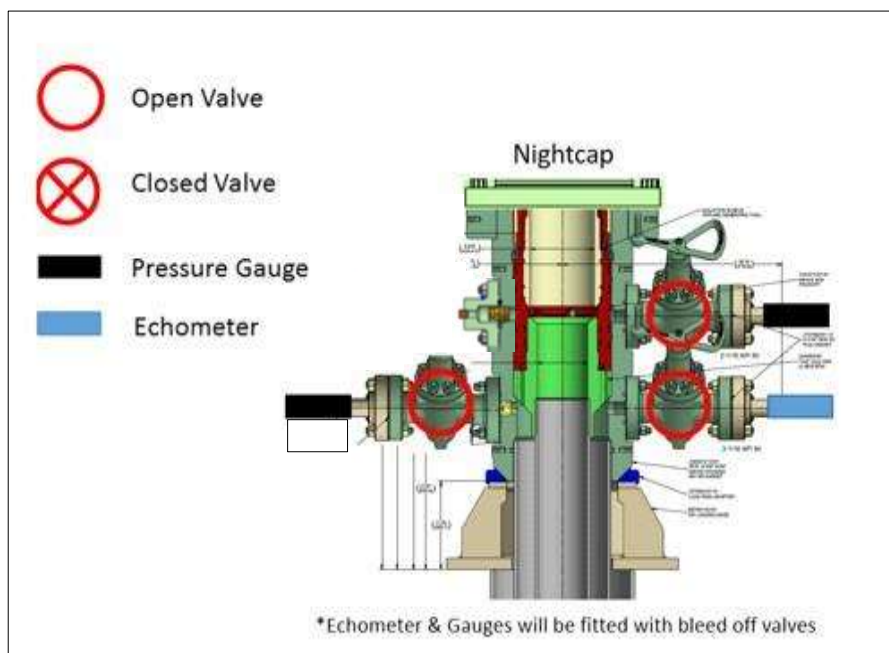
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



Annular packoff with both external and internal seals

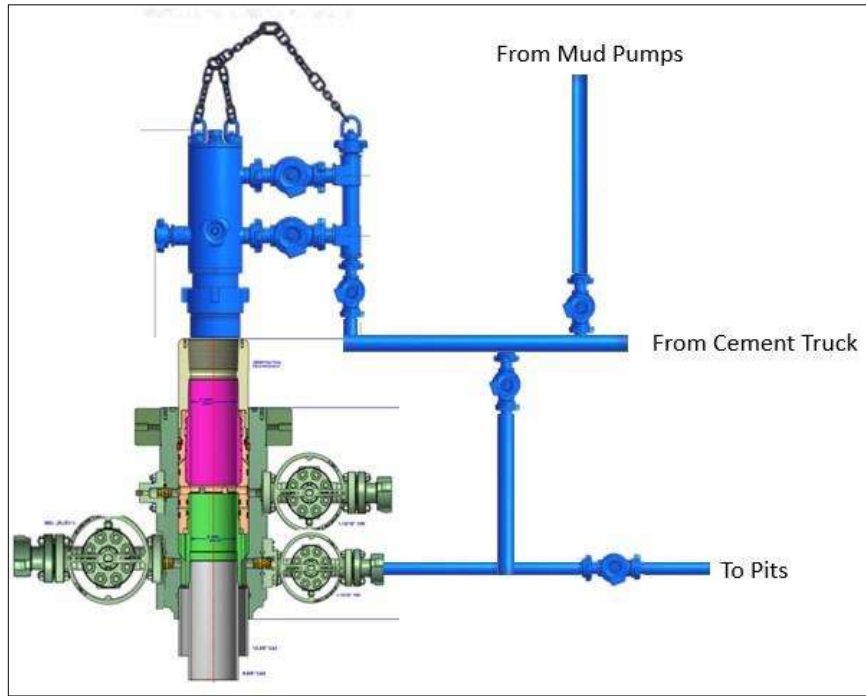
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

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

Description of Operations:

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



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

SUPO Data Report

05/19/2025

APD ID: 10400100949

Submission Date: 09/23/2024

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Poker_Lake_Unit_20_17_BD_203H_Existing_Road_Map_20240911110700.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

Existing Well map Attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Poker_Lake_Unit_20_17__20_8_BD_1Mile_Radius_20240911065741.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Production Facilities. No New facility is required for the Poker Lake Unit 20-17/20-8 BD wells. Once drilled and completed, the wells will flow to the Poker Lake Unit 20-17/20-8 BD battery. B. Flowlines. No further flowlines disturbance is requested. C. Gas Pipeline. No Gas Sales line is required for this well. No additional surface disturbance is needed. D. Disposal Facilities. Produced water will be hauled from location to a commercial or private disposal facility as needed. E. Flare. - Check in facility plot attached. F. 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 BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment. G. Containment Berms. Containment berms will be constructed completely around any production facilities designed. The containment berms will be constructed of compacted caliche, be sufficiently impervious, away from cut or fill areas. H. Electrical. No additional electrical is required for this well. No additional surface disturbance is needed. I. Facility Description- Kindly see the facility plot attached.

Production Facilities map:

XTO_DB_BDWST_00CTB_PLOT_000_0_Model_6_18_18_20240911053241.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Fresh Water

Water source use type: DUST CONTROL
SURFACE CASING
STIMULATION

Source latitude:

Source longitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000

Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Water source type: OTHER

Describe type: Raw Produced Water

Water source use type: INTERMEDIATE/PRODUCTION CASING

Source latitude:

Source longitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000

Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Water source type: RECYCLED

Water source use type: INTERMEDIATE/PRODUCTION CASING

Source latitude:

Source longitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000

Source volume (acre-feet): 70.89120298

Water source and transportation

Poker_Lake_Unit_20_17_BD_203H_Vicinity_Map_2024091111120.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish (3P) or raw produced water (XOM) that is all piped from either a pipeline or a pond 32.1483028, -103.922338) to the drilling location. Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20-17 BD**Well Number:** 203H

during the operation. Temporary water lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

New water well? N

New Water Well Info

Well latitude:**Well Longitude:****Well datum:****Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:**

Section 6 - Construction Materials

Using any construction materials: NO**Construction Materials description:****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:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

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

Disposal type description:

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

Waste type: SEWAGE

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

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

Disposal type description:

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

Waste type: DRILLING

Waste content description: FLUID

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel Mud Boxes

Safe containmant attachment:

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

Disposal type description:

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

Waste type: 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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

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

Safe containmant attachment:

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

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

Cuttings area liner

Cuttings area liner specifications and installation description

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Poker_Lake_Unit_20_17_BD_203H_RL_20240917115159.pdf

Poker_Lake_Unit_20_17_BD_203H_Well_Site_Plat_Updated_20250327164709.pdf

Comments: Multi-Well Pad.

Section 10 - Plans for Surface

Type of disturbance: No New Surface Disturbance **Multiple Well Pad Name:** POKER LAKE UNIT 20-17 BD

Multiple Well Pad Number: B

Recontouring

XTO_POKER_LAKE_UNIT_20_17_20_8_BD_PAD_B_INTERIM_RECLAMATION_FINAL_3_20_2025_20250327165054.pdf

XTO_POKER_LAKE_UNIT_20_17_20_8_BD_PAD_D_INTERIM_RECLAMATION_FINAL_3_20_2025_20250327165055.pdf

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

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

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

Disturbance Comments:

Reconstruction method: The original stockpiled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads,

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

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

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

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

Existing Vegetation at the well pad

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

Existing Vegetation Community at the road

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

Existing Vegetation Community at the pipeline

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

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Seed harvest description:

Seed harvest description attachment:

[Seed](#)

[Seed Table](#)

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation

[Operator Contact/Responsible Official](#)

First Name: Robert

Last Name: Bartels

Phone: (406)478-3617

Email: robert.e.bartels@exxonmobil.com

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

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

Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

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

Weed treatment plan

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

Monitoring plan

Success standards: 100% compliance with applicable regulations.

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

Pit closure attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Section 11 - Surface

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: 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:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: TRANSMISSION LINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

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:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

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

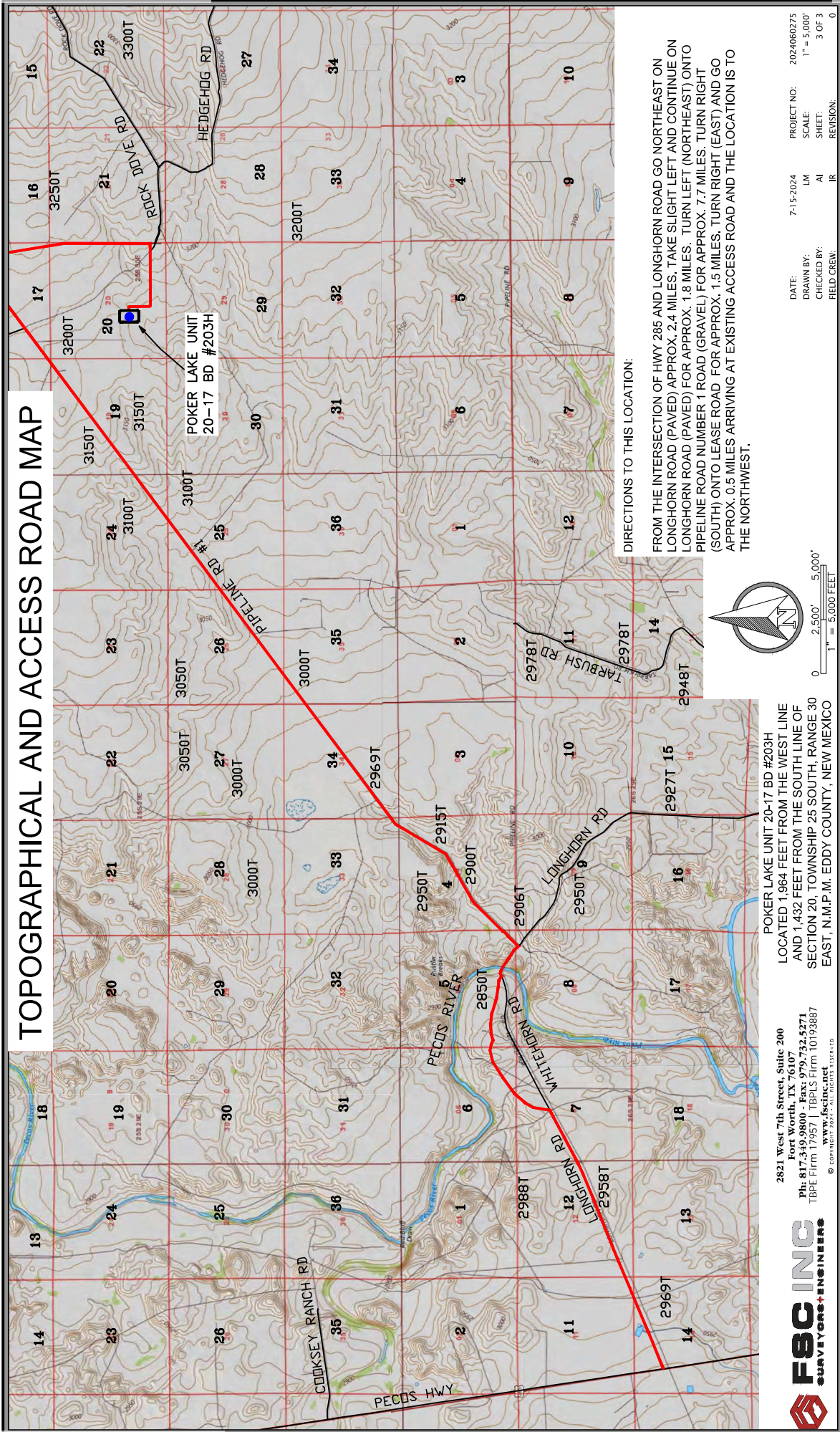
Use a previously conducted onsite? Y

Previous Onsite information: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 3/10/2021.

Other SUPO

Poker_Lake_Unit_20_17___20_8_BD_SUPO_20250318101020.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP



DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 7.7 MILES. TURN RIGHT (SOUTH) ONTO LEASE ROAD FOR APPROX. 1.5 MILES. TURN RIGHT (EAST) AND GO APPROX. 0.5 MILES ARRIVING AT EXISTING ACCESS ROAD AND THE LOCATION IS TO THE NORTHWEST.



DATE:	7-15-2024	PROJECT NO:	202-4060275
DRAWN BY:	LM	SCALE:	1" = 5,000'
CHECKED BY:	AI	SHEET:	3 OF 3
FIELD CREW:	IR	REVISION:	0

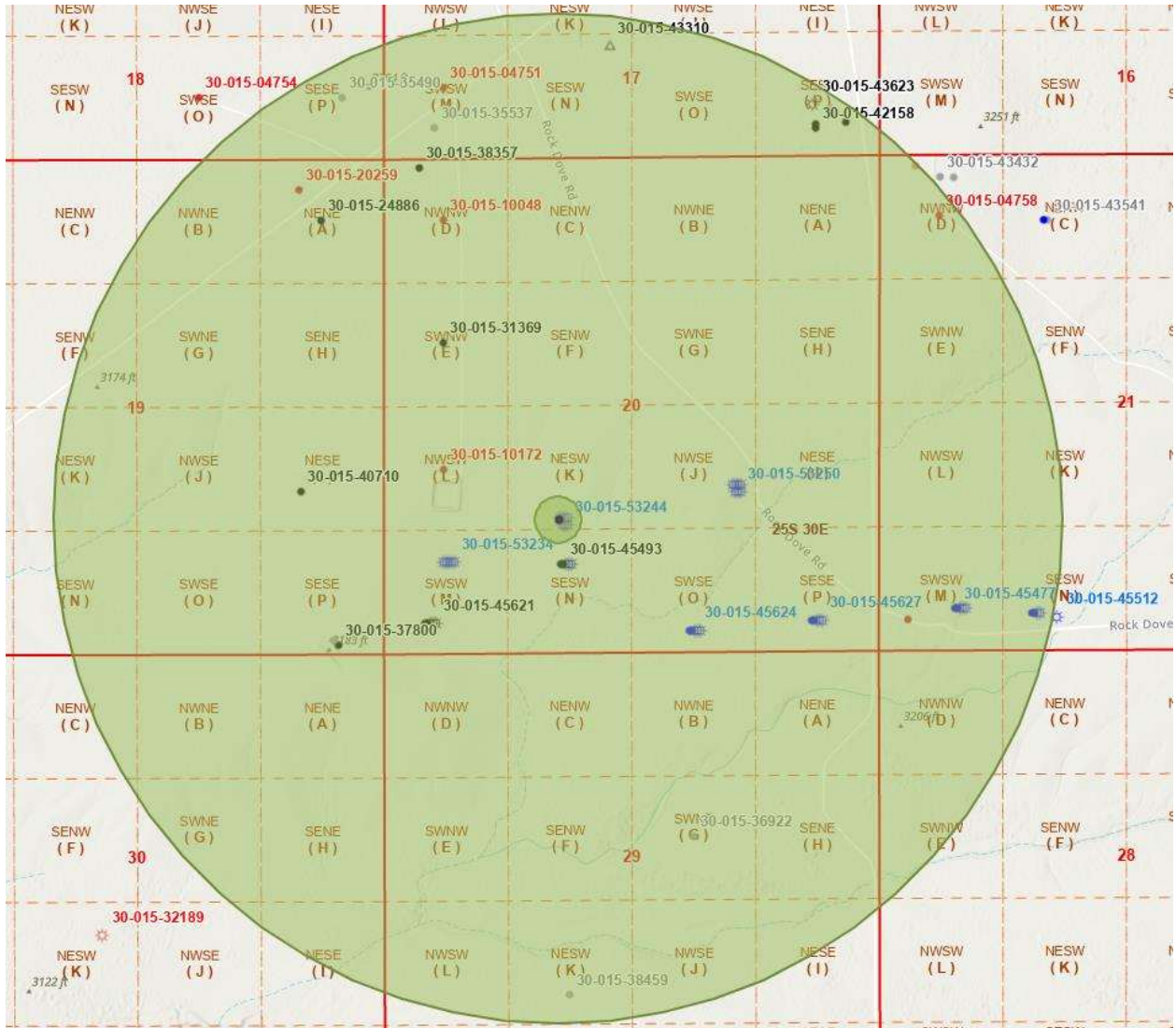
POKER LAKE UNIT 20-17 BD #203H
 LOCATED 1,964 FEET FROM THE WEST LINE
 AND 1,432 FEET FROM THE SOUTH LINE OF
 SECTION 20, TOWNSHIP 25 SOUTH, RANGE 30
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

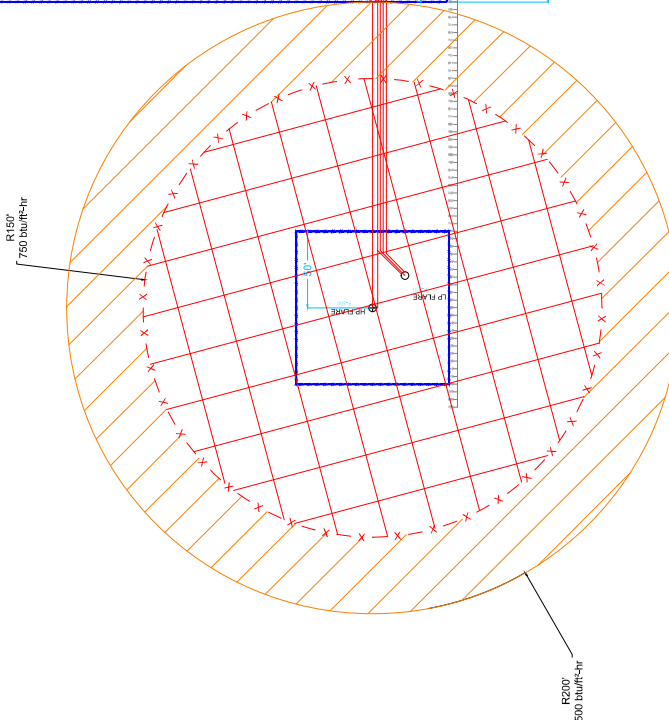
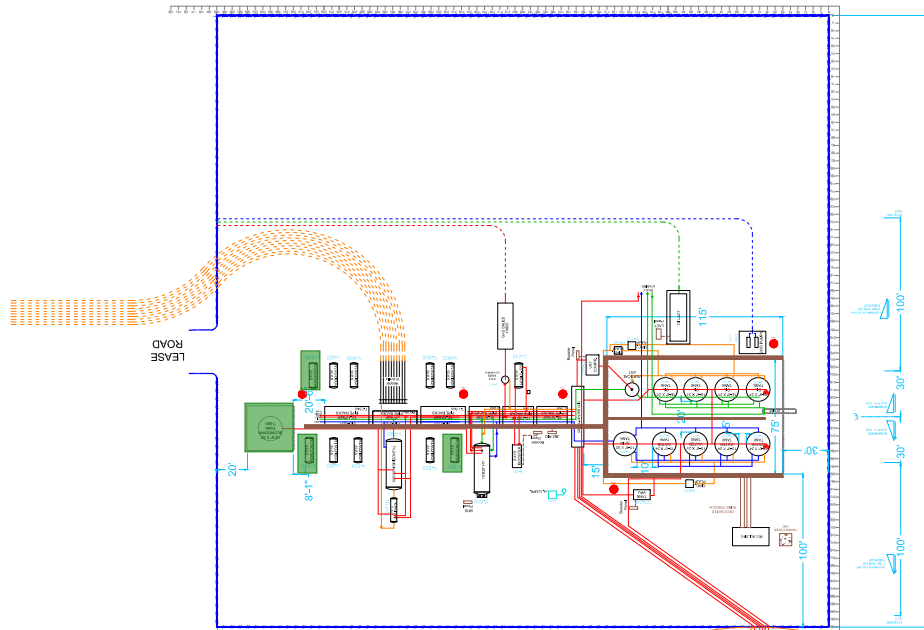
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Poker Lake Unit 20-17 & 20-8 BD

1-Mile Radius Map

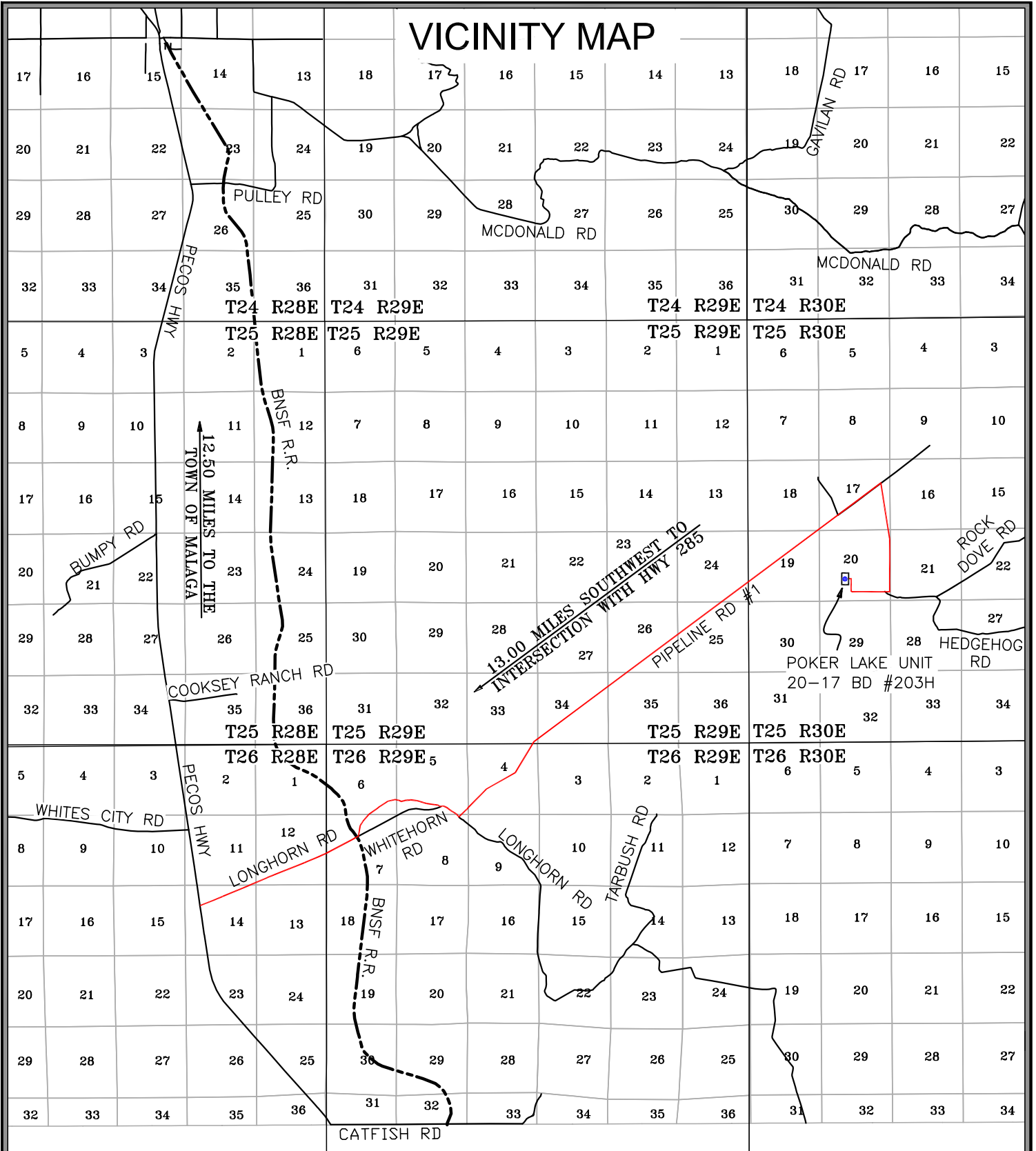




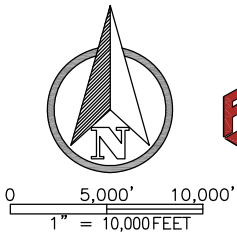
Revision		Description of Change		Date	By
0		ISSUED FOR REVIEW		5-18	MFF
<p style="text-align: center;">ISSUED FOR CONSTRUCTION</p> <p>DATE: _____ SIGN: _____</p>					
Company		Division	Field	Doc Type	Equip
XTO ENERGY					
BRUSHY DRAW WEST		TANK BATTERY COUNTY			
PLOT PLAN					
XTO - DB - BDWST - 00CTB - PLOT - 000 - 0					

NOTES:
1)
2)

VICINITY MAP



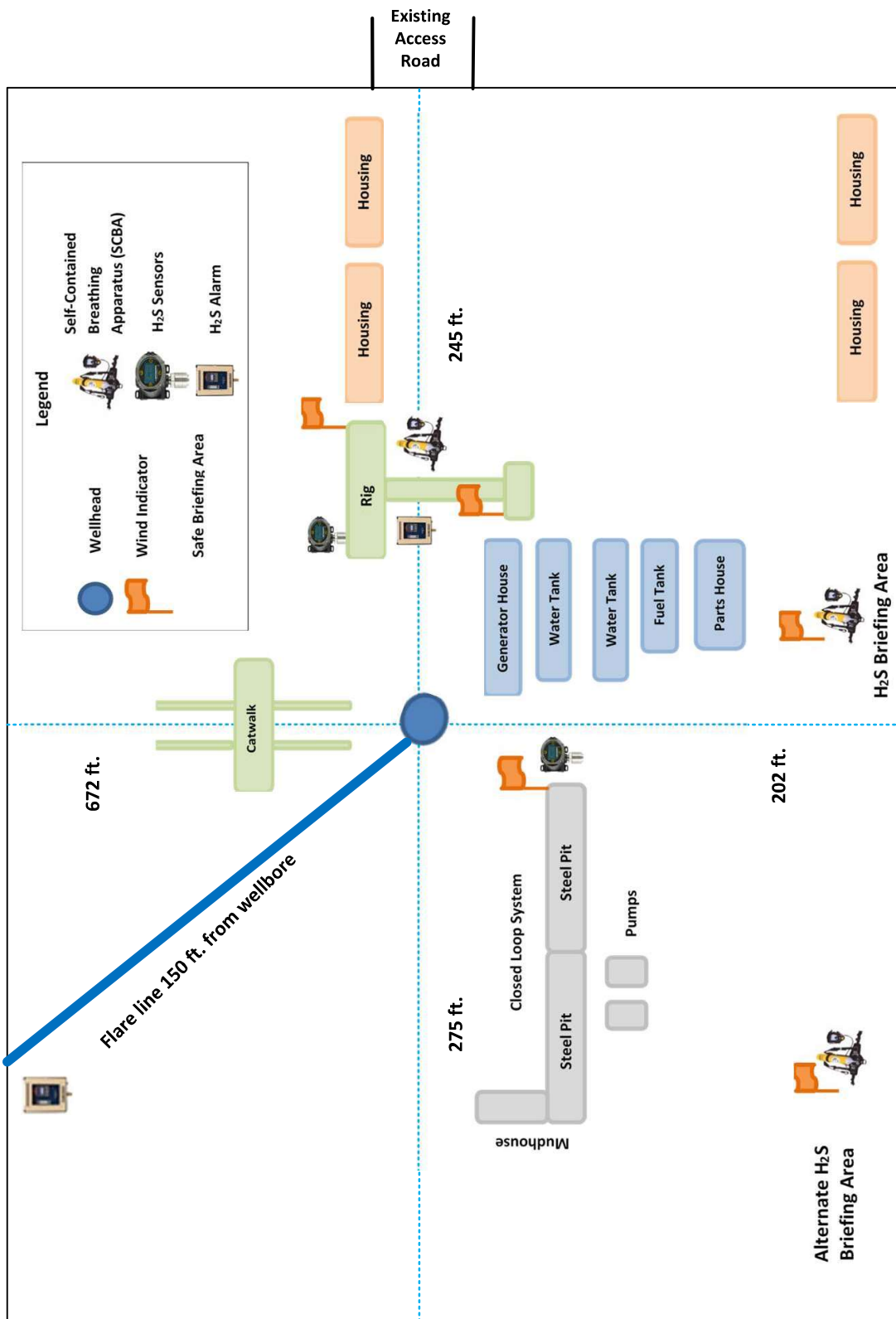
POKER LAKE UNIT 20-17 BD #203H
 LOCATED 1,964 FEET FROM THE WEST LINE
 AND 1,432 FEET FROM THE SOUTH LINE OF
 SECTION 20, TOWNSHIP 25 SOUTH, RANGE 30
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



FSC INC
 SURVEYORS+ENGINEERS
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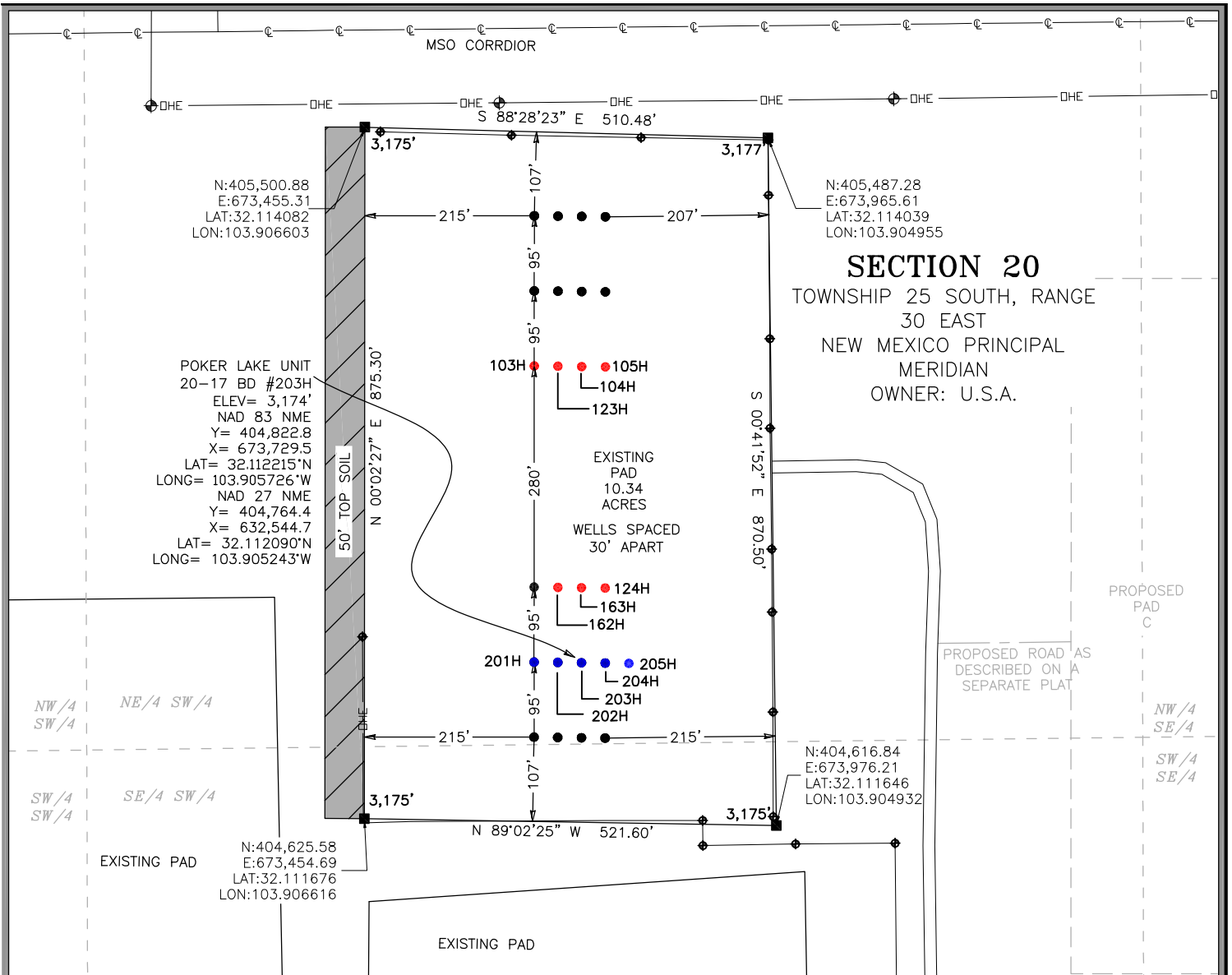
DATE: 7-14-2024
 DRAWN BY: LM
 CHECKED BY: CH
 FIELD CREW: IR
 PROJECT NO: 2024060275
 SCALE: 1" = 10,000'
 SHEET: 2 OF 3
 REVISION: NO

Rig Plat Layout



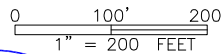
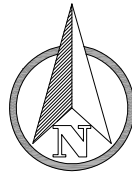
Legend

- Wellhead
- Wind Indicator
- Safe Briefing Area
- Self-Contained Breathing Apparatus (SCBA)
- H₂S Sensors
- H₂S Alarm



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 16 July 2024



LEGEND

- EXISTING ROAD
- EXISTING OVERHEAD ELECTRIC
- EXISTING PAD
- PERMITTED WELL
- TBD WELL
- DRILLED WELL
- POWER POLE

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



NOTE:

1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 7.7 MILES. TURN RIGHT (SOUTH) ONTO LEASE ROAD FOR APPROX. 1.5 MILES. TURN RIGHT (EAST) AND GO APPROX. 0.5 MILES ARRIVING AT THE EXISTING ACCESS ROAD AND THE LOCATION IS TO THE NORTHWEST.

XTO PERMIAN OPERATING, INC.

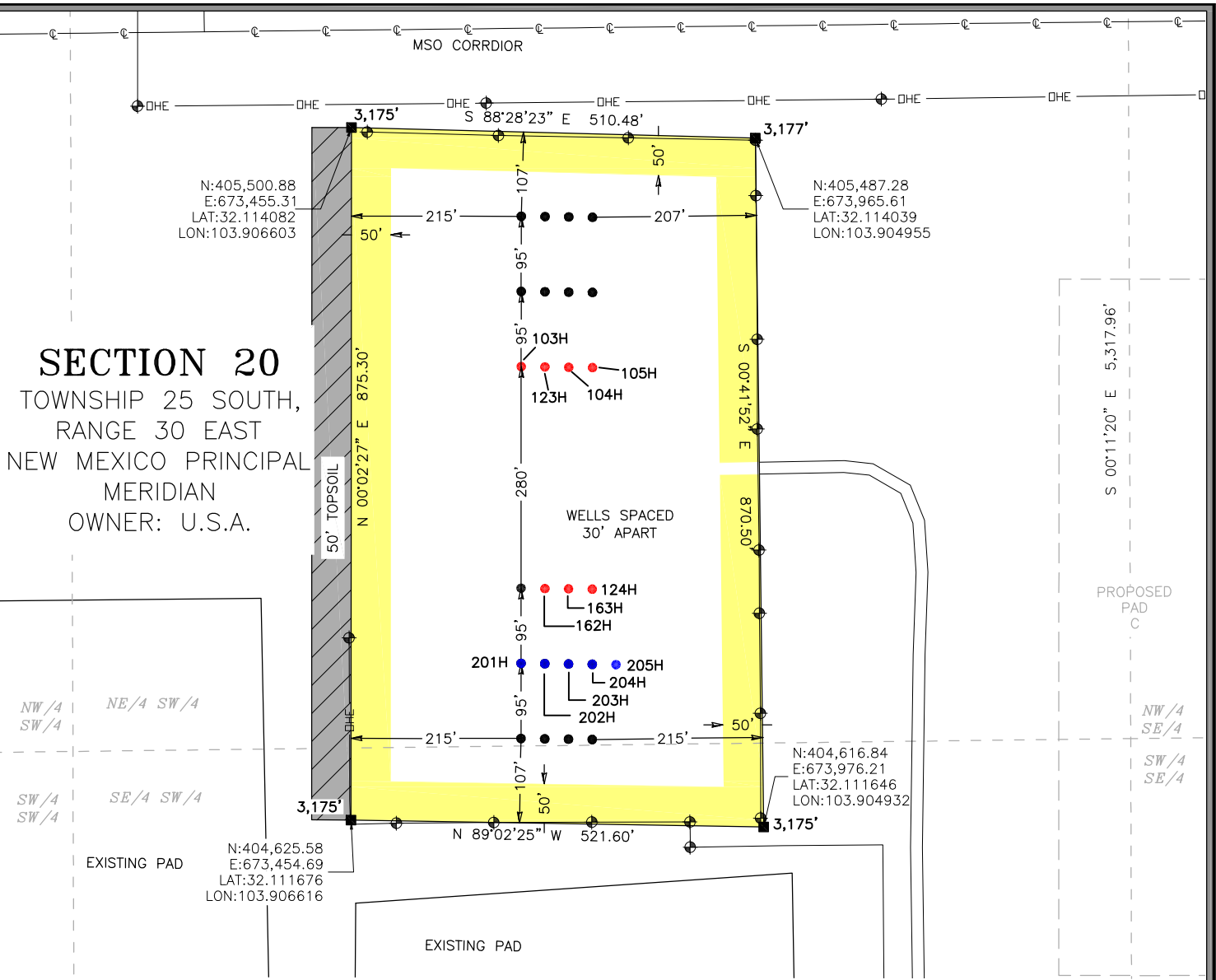
**WELL SITE PLAN
PAD B**

POKER LAKE UNIT 20-17 BD #203H
LOCATED 1,432 FEET FROM THE SOUTH
LINE AND 1,964 FEET FROM THE WEST
LINE OF SECTION 20 TOWNSHIP 25
SOUTH, RANGE 30 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO



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DATE:	7-16-2024	PROJECT NO:	2024060275
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 3
FIELD CREW:	RE	REVISION:	1



ACREAGE INFORMATION

INITIAL DISTURBED AREA	=10.337 ACRES
INTERIM RECLAMATION	=2.942 ACRES
TOTAL PAD ACREAGE AFTER IR	=7.395 ACRES

GENERAL NOTES

- ALL BEARINGS, DISTANCES, AND COORDINATE VALUES SHOWN HEREON ARE GRID VALUES AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF 1983 EAST ZONE 3001, U.S. SURVEY FEET.

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.

[Signature] 20 March 2025

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



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LEGEND

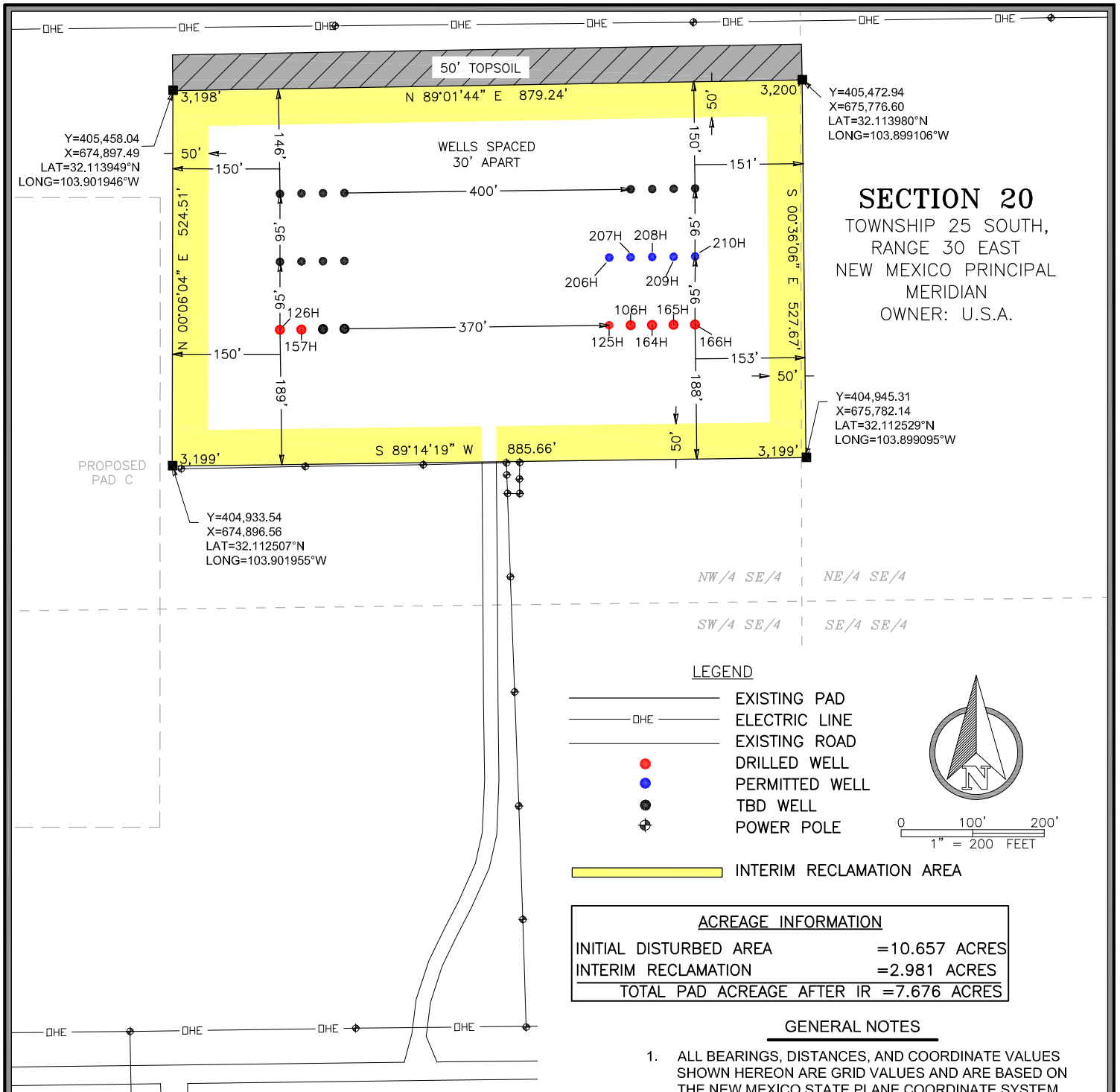
	PAD
	EXISTING OVERHEAD ELECTRIC
	EXISTING ROAD
	TBD WELL
	PERMITTED WELL
	DRILLED WELL
	POWER POLE
	INTERIM RECLAMATION AREA

XTO PERMIAN OPERATING, INC.

AN INTERIM RECLAMATION DIAGRAM FOR: POKER LAKE UNIT 20-17/20-8 BD PAD B

POKER LAKE UNIT 20-17/20-8 BD PAD B
LOCATED 1,668 FEET FROM THE SOUTH LINE
AND 1,950 FEET FROM THE WEST LINE OF
SECTION 20 TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	3-19-2025	PROJECT NO:	2017040549
DRAWN BY:	RE/LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	3-20-2025



Y=405,472.94
X=675,776.60
LAT=32.113980°N
LONG=103.899106°W

SECTION 20
TOWNSHIP 25 SOUTH,
RANGE 30 EAST
NEW MEXICO PRINCIPAL
MERIDIAN
OWNER: U.S.A.

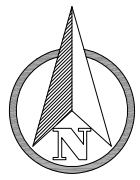
Y=404,945.31
X=675,782.14
LAT=32.112529°N
LONG=103.899095°W

Y=404,933.54
X=674,896.56
LAT=32.112507°N
LONG=103.901955°W

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

LEGEND

- EXISTING PAD
- ELECTRIC LINE
- EXISTING ROAD
- DRILLED WELL
- PERMITTED WELL
- TBD WELL
- POWER POLE



0 100' 200'
1" = 200 FEET

INTERIM RECLAMATION AREA

ACREAGE INFORMATION	
INITIAL DISTURBED AREA	=10.657 ACRES
INTERIM RECLAMATION	=2.981 ACRES
TOTAL PAD ACREAGE AFTER IR	=7.676 ACRES

GENERAL NOTES

- ALL BEARINGS, DISTANCES, AND COORDINATE VALUES SHOWN HEREON ARE GRID VALUES AND ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF 1983 EAST ZONE 3001, U.S. SURVEY FEET.

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
20 March 2025



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



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XTO PERMIAN OPERATING, LLC

**AN INTERIM RECLAMATION
DIAGRAM FOR:
POKER LAKE UNIT
20-17/20-8 BD PAD D
POKER LAKE UNIT 20-17/20-8 BD PAD D
LOCATED 1,773 FEET FROM THE EAST LINE
AND 1,793 FEET FROM THE SOUTH LINE OF
SECTION 20, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO**

DATE:	3-20-2025	PROJECT NO.:	2017040549
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	

Well Site Locations

The results of the Poker Lake Unit 20-17/20-8 BD Development Program will develop economic quantities of oil and gas in the Poker Lake Unit 20-17/20-8 BD with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

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

Poker Lake Unit 20-17/20-8 BD Sec-20, T25 S, Range 30 E

Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
Poker Lake Unit 20-17 BD 201H	1434	FSL	1904	FWL
Poker Lake Unit 20-17 BD 202H	1433	FSL	1934	FWL
Poker Lake Unit 20-17 BD 203H	1432	FSL	1964	FWL
Poker Lake Unit 20-8 BD 204H	1431	FSL	1994	FWL
Poker Lake Unit 20-8 BD 205H	1431	FSL	2024	FWL
Poker Lake Unit 20-8 BD 206H	1813	FSL	1604	FEL
Poker Lake Unit 20-8 BD 207H	1813	FSL	1574	FEL
Poker Lake Unit 20-8 BD 208H	1813	FSL	1544	FEL
Poker Lake Unit 20-8 BD 209H	1813	FSL	1514	FEL
Poker Lake Unit 20-8 BD 210H	1813	FSL	1484	FEL

Surface Use Plan

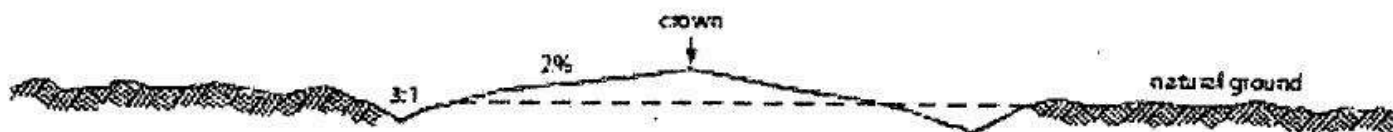
1. Existing Roads

- A. From the intersection of Highway 285 and Longhorn Road, go Northeast on Longhorn Road (paved) Approx. 2.4 Miles. Take Slight Left and continue on Longhorn Road (Paved) for Approx 1.8 miles. Turn Left (Northeast) onto pipeline road number 1 road (Gravel) for Approx. 7.7 Miles. Turn Right (South) onto Lease Road for Approx. 1.5 Miles. Turn Right (East) and go approx. 0.8 Miles arriving at the existing road and the location is to the northwest. Transportation maps identifying existing roads that will be used to access the project area are included from FSC, Inc. marked as, 'Topographical and Access Road Map'.
- B. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, Topographical and Access Road Map. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. New or Upgraded Access Roads

- A. **New Roads.** There are no new roads necessary to access the Poker Lake Unit 20-17/20-8 BD location.
- B. **Well Pads.** The well pads selected for development determines which existing roads will be upgraded.

- C. **Anticipated Traffic.** After well completion, travel to each well site will include one lease operator truck. The Central Battery will require one lease operator truck to continually travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by FSC INC unless otherwise approved by the BLM and applied for by XTO PERMIAN OPERATING LLC
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slope. The driving surface will be made of 8" rolled and compacted caliche.



Level Ground Section

- F. **Surface Material.** Surface material will be native caliche. The average grade of all roads will be approximately 3%.
- G. **Fence Cuts:** No.
- H. **Fences:** No.
- I. **Cattle Guards:** No.
- J. **Turnouts:** No.
- K. **Culverts:** No.
- L. **Cuts and Fills:** look at attached plats.
- M. **Topsoil.** Approximately 6 inches of topsoil (root zone) is stripped from the access road prior to any construction activity. The topsoil that was stripped will be spread along the edge of well pad as depicted in plat. The topsoil will be seeded with the proper seed mix designated by the BLM.
- N. **Maintenance.** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- O. **Drainage.** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. Location of Existing Wells

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

4. Location of Existing Production Facilities

- A. **Production Facilities.** No New facility is required for the Poker Lake Unit 20-17/20-8 BD wells. Once drilled and completed, the wells will flow to the Poker Lake Unit 20-17/20-8 BD battery.
- B. **Flowlines.** No further flowlines disturbance is requested.
- C. **Gas Pipeline.** No Gas Sales line is required for this well. No additional surface disturbance is needed.

- D. **Disposal Facilities.** Produced water will be hauled from location to a commercial or private disposal facility as needed.
- E. **Flare.** - Check in facility plot attached.
- F. **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 BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment.
- G. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed. The containment berms will be constructed of compacted caliche, be sufficiently impervious, away from cut or fill areas.
- H. **Electrical.** No additional electrical is required for this well. No additional surface disturbance is needed.
- I. **Facility Description-** Kindly see the facility plot attached.

5. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish (3P) or raw produced water (XOM) that is all piped from either a pipeline or a pond 32.1483028, -103.922338) to the drilling location.

Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections

6. Construction Activities – No new construction

Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur because of these activities.

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.

Well Pad. No New construction

7. Methods for Handling Waste

- **Cuttings.** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids.** These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.

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

8. Ancillary Facilities

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

9. Well Site Layout

Rig Plat Diagrams: There is 1 multi-well pad in the Poker Lake Unit 20-17/20-8 BD lease. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. A well site layout for the pad is attached.

- Pad B is a 26-well pad expected to be 875.50'x521.60'.

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

V-Door Orientation: These pads were staked with multiple v-door orientations. The following list is from West to East in accordance with the staked section and as agreed upon with Zane Kirsch, BLM Natural Resource Specialist, present at on-site inspection.

- Pad A has a V-Door Orientation: East
All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas)

10. Plans for Surface Reclamation:

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

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

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

Reclamation Standards:

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

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

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

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

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

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

Seeding:

- **Seedbed Preparation:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting to break the soil crust and create seed germination micro-sites.
- **Seed Application.** Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. Surface Ownership

- The Poker Lake Unit 20-17/20-8 BD is 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- The surface is multiple use with the primary uses of the region for grazing and to produce oil and gas.

12. Other Information

Surveying

- **Well Sites.** Well pad locations have been staked. Surveys of the Existing access roads and well pad locations have been completed by FSC, Inc, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Zane Kirsch, Bureau of Land Management Natural Resource Specialist in attendance, on February 15, 2022.
- **Cultural Resources – Archaeology:** A Class III Cultural Resources Examination was completed previously.
- **Dwellings and Structures.** There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

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

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

- **Water.** There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

Onsite- The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 3/10/2021.

Operator's Representatives:

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

Surface:

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



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

PWD Data Report

05/19/2025

APD ID: 10400100949

Submission Date: 09/23/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

State

Unlined Produced Water Pit Estimated

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



Bond Info Data

05/19/2025

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

APD ID: 10400100949

Submission Date: 09/23/2024

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-17 BD

Well Number: 203H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

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:

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

Well Name: POKER LAKE UNIT 20-17 BD	Well Location: T25S / R30E / SEC 20 / NESW / 32.112215 / -103.905726	County or Parish/State: EDDY / NM
Well Number: 203H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC064894	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2868158

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/12/2025

Time Sundry Submitted: 01:54

Date proposed operation will begin: 08/26/2025

Procedure Description: Poker Lake Unit 20-17 BD 203H XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, Proposed Total Depth, Pool, and Dedicated Acreage. APD ID: 10400100949 FROM: TO: KOP: 1432' FSL & 1964' FWL OF SECTION 20-T25S-R30E 272' FSL & 2616' FWL OF SECTION 20-T25S-R30E FTP: 100' FSL & 1570' FWL OF SECTION 20-T25S-R30E 272' FSL & 2616' FWL OF SECTION 20-T25S-R30E LTP: 100' FNL & 1570' FWL OF SECTION 17-T25S-R30E 2560' FSL & 2599' FWL OF SECTION 8-T25S-R30E BHL: 10' FNL & 1570' FWL OF SECTION 17-T25S-R30E 2650' FSL & 2599' FWL OF SECTION 8-T25S-R30E The proposed total depth is changing FROM 21485' MD; 10107' TVD TO 22362' MD; 9435' TVD. Pool code is changing FROM Corral Canyon, Bone Spring (13354) TO Corral Canyon; Bone Spring, South (13354). Dedicated Acreage is changing FROM 320 Acres TO 720 Acres. There is no new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_20_17_BD_203H_Sundry_Docs_20250903114135.pdf

POKER_LAKE_UNIT_20_17_BD_203H_Sundry_Docs_20250812135024.pdf

Well Name: POKER LAKE UNIT 20-17
BD

Well Location: T25S / R30E / SEC 20 /
NESW / 32.112215 / -103.905726

County or Parish/State: EDDY /
NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC064894

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

PLU_20_17_BD_203H_COA_20250911072323.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SAMANTHA WEIS

Signed on: SEP 03, 2025 11:43 AM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Advisor

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING

State: TX

Phone: (832) 625-7361

Email address: SAMANTHA.R.BARTNIK@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 09/11/2025

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

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

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

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

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

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

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

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

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Additional Remarks

FTP:

100 FSL & 1570 FWL OF SECTION 20-T25S-R30E

272 FSL & 2616 FWL OF SECTION 20-T25S-R30E

LTP: 100 FNL & 1570 FWL OF SECTION 17-T25S-R30E 2560 FSL & 2599 FWL OF SECTION 8-T25S-R30E

BHL: 10 FNL & 1570 FWL OF SECTION 17-T25S-R30E 2650 FSL & 2599 FWL OF SECTION 8-T25S-R30E

The proposed total depth is changing FROM 21485 MD; 10107 TVD TO 22362 MD; 9435 TVD.

Pool code is changing FROM Corral Canyon, Bone Spring (13354) TO Corral Canyon; Bone Spring, South (13354).

Dedicated Acreage is changing FROM 320 Acres TO 720 Acres.

There is no new surface disturbance.

Location of Well

0. SHL: NESW / 1432 FSL / 1964 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.112215 / LONG: -103.905726 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 100 FSL / 1570 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108545 / LONG: -103.906997 (TVD: 10107 feet, MD: 11000 feet)

BHL: NENW / 10 FSL / 1570 FWL / TWSP: 25S / RANGE: 30E / SECTION: 17 / LAT: 32.137468 / LONG: -103.907025 (TVD: 10107 feet, MD: 21485 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
WELL NAME & NO.: Poker Lake Unit 20-17 BD 203H
LOCATION: 20-25S-30E-NMP
COUNTY: <input style="width: 80%;" type="text" value="Eddy County, New Mexico"/>

*Changes approved through engineering via **Sundry 2868158** on 9/11/2025. Any previous COAs not addressed within the updated COAs still apply.*

Create COAs

H₂S <input style="width: 90%;" type="text" value="Present"/>	Cave / Karst <input style="width: 90%;" type="text" value="Low"/>	Waste Prevention Rule <input style="width: 90%;" type="text" value="Waste Minimization Plan"/>
Potash <input style="width: 90%;" type="text" value="None"/>	R-111-Q Design <input style="width: 95%;" type="text"/>	
Wellhead <input style="width: 90%;" type="text" value="Multibowl"/> <input checked="" type="checkbox"/> Flex Hose <input checked="" type="checkbox"/> Break Testing	Casing <input style="width: 90%;" type="text" value="3-String Well"/> <input type="checkbox"/> Liner <input type="checkbox"/> Fluid Filled <input type="checkbox"/> Casing Clearance	
	Cementing <input type="checkbox"/> DV Tool <input checked="" type="checkbox"/> Bradenhead <input checked="" type="checkbox"/> Echometer <input checked="" type="checkbox"/> Offline Cement <input type="checkbox"/> Open Annulus <input type="checkbox"/> Pilot Hole	
Special Requirements <input type="checkbox"/> Capitan Reef <input type="checkbox"/> Water Disposal <input type="checkbox"/> COM <input checked="" type="checkbox"/> Unit		

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation(s). As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **926** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

- cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch Intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

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

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

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

- Operator shall run a CBL from TD of the **Surface** casing to tieback requirements listed above after the second stage BH to verify TOC.
 - **Operator shall run Echo-meter to verify Cement Slurry/Fluid top in the annulus.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.
 - Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.
 - No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface.
 - Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 24%. Additional cement maybe required.**
- If cement does not circulate to surface on this casing, the next string must come to surface.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drilling the production hole section.**
 - b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
 - c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
 - d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
 - e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)

Unit Wells:

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

Commercial Well Determination:

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

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

B. PRESSURE CONTROL

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

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

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

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Approved by Zota Stevens on 9/11/2025
575-234-5998 / zstevens@blm.gov

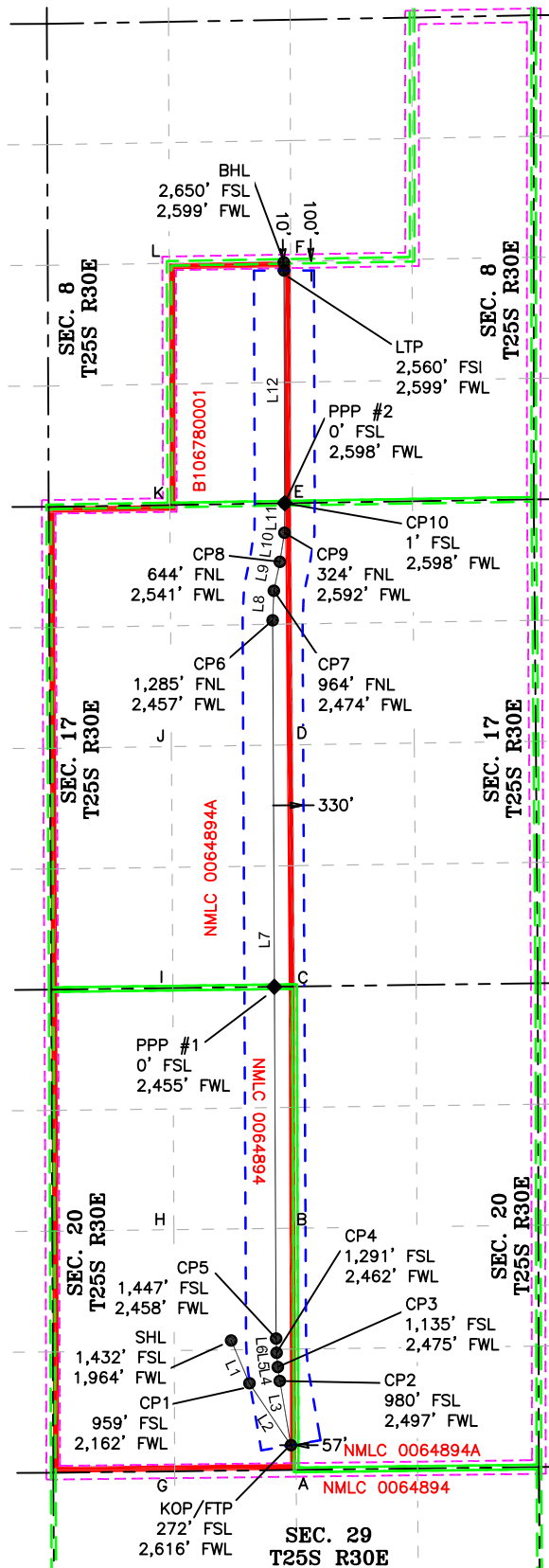
ACREAGE DEDICATION PLATS

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.

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	156° 56'16"	511.57'
L2	146° 11'29"	820.61'
L3	350° 12'40"	716.63'
L4	351° 49'51"	156.55'
L5	354° 56'29"	156.56'
L6	358° 03'42"	156.55'
L7	359° 43'21"	7,902.59'
L8	02° 32'38"	324.68'
L9	11° 42'33"	324.67'
L10	08° 47'36"	324.58'
L11	00° 38'31"	324.90'
L12	359° 48'15"	2,649.39'

COORDINATE TABLE					
SHL (NAD 83 NME)			KOP/FTP (NAD 83 NME)		
Y =	404,822.8	N	Y =	403,670.3	N
X =	673,729.5	E	X =	674,386.5	E
LAT. =	32.112215	°N	LAT. =	32.109040	°N
LONG. =	103.905726	°W	LONG. =	103.903619	°W
LTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	416,593.7	N	Y =	416,683.7	N
X =	674,309.9	E	X =	674,309.6	E
LAT. =	32.144565	°N	LAT. =	32.144813	°N
LONG. =	103.903700	°W	LONG. =	103.903700	°W
P1 (NAD 83 NME)		P2 (NAD 83 NME)			
Y =	404,352.1	N	Y =	404,376.5	N
X =	673,929.9	E	X =	674,264.7	E
LAT. =	32.110919	°N	LAT. =	32.110982	°N
LONG. =	103.905085	°W	LONG. =	103.904003	°W
P3 (NAD 83 NME)		P4 (NAD 83 NME)			
Y =	404,531.4	N	Y =	404,687.4	N
X =	674,242.4	E	X =	674,228.6	E
LAT. =	32.111409	°N	LAT. =	32.111837	°N
LONG. =	103.904073	°W	LONG. =	103.904116	°W
P5 (NAD 83 NME)		P6 (NAD 83 NME)			
Y =	404,843.9	N	Y =	412,746.4	N
X =	674,223.3	E	X =	674,185.1	E
LAT. =	32.112268	°N	LAT. =	32.133991	°N
LONG. =	103.904131	°W	LONG. =	103.904153	°W
P7 (NAD 83 NME)		P8 (NAD 83 NME)			
Y =	413,070.7	N	Y =	413,388.6	N
X =	674,199.5	E	X =	674,265.4	E
LAT. =	32.134883	°N	LAT. =	32.135756	°N
LONG. =	103.904102	°W	LONG. =	103.903885	°W
P9 (NAD 83 NME)		P10 (NAD 83 NME)			
Y =	413,709.4	N	Y =	414,034.3	N
X =	674,315.0	E	X =	674,318.6	E
LAT. =	32.136637	°N	LAT. =	32.137530	°N
LONG. =	103.903721	°W	LONG. =	103.903705	°W
SHL (NAD 27 NME)			KOP/FTP (NAD 27 NME)		
Y =	404,764.4	N	Y =	403,612.0	N
X =	632,544.7	E	X =	633,201.6	E
LAT. =	32.112090	°N	LAT. =	32.108915	°N
LONG. =	103.905243	°W	LONG. =	103.903136	°W
LTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	416,535.0	N	Y =	416,625.0	N
X =	633,125.4	E	X =	633,125.1	E
LAT. =	32.144441	°N	LAT. =	32.144688	°N
LONG. =	103.903215	°W	LONG. =	103.903215	°W
P1 (NAD 27 NME)		P2 (NAD 27 NME)			
Y =	404,293.7	N	Y =	404,318.1	N
X =	632,745.0	E	X =	633,079.8	E
LAT. =	32.110794	°N	LAT. =	32.110857	°N
LONG. =	103.904602	°W	LONG. =	103.903520	°W
P3 (NAD 27 NME)		P4 (NAD 27 NME)			
Y =	404,473.0	N	Y =	404,629.0	N
X =	633,057.5	E	X =	633,043.7	E
LAT. =	32.111283	°N	LAT. =	32.111712	°N
LONG. =	103.903590	°W	LONG. =	103.903633	°W
P5 (NAD 27 NME)		P6 (NAD 27 NME)			
Y =	404,785.5	N	Y =	412,687.8	N
X =	633,038.4	E	X =	633,000.5	E
LAT. =	32.112143	°N	LAT. =	32.133866	°N
LONG. =	103.903648	°W	LONG. =	103.903668	°W
P7 (NAD 27 NME)		P8 (NAD 27 NME)			
Y =	413,012.1	N	Y =	413,330.0	N
X =	633,014.9	E	X =	633,080.8	E
LAT. =	32.134758	°N	LAT. =	32.135631	°N
LONG. =	103.903618	°W	LONG. =	103.903401	°W
P9 (NAD 27 NME)		P10 (NAD 27 NME)			
Y =	413,650.8	N	Y =	413,975.7	N
X =	633,130.4	E	X =	633,134.1	E
LAT. =	32.136512	°N	LAT. =	32.137405	°N
LONG. =	103.903236	°W	LONG. =	103.903220	°W
PPP #1 (NAD 83 NME)		PPP #1 (NAD 27 NME)			
Y =	408,713.9	N	Y =	408,655.4	N
X =	674,204.6	E	X =	633,019.9	E
LAT. =	32.122906	°N	LAT. =	32.122781	°N
LONG. =	103.904142	°W	LONG. =	103.903658	°W
PPP #2 (NAD 83 NME)		PPP #2 (NAD 27 NME)			
Y =	414,033.7	N	Y =	413,975.1	N
X =	674,318.4	E	X =	633,133.9	E
LAT. =	32.137528	°N	LAT. =	32.137403	°N
LONG. =	103.903705	°W	LONG. =	103.903221	°W



CORNER COORDINATES (NAD83 NME)					
A - Y =	403,398.9	N	A - X =	674,444.4	E
B - Y =	406,057.8	N	B - X =	674,435.7	E
C - Y =	408,716.9	N	C - X =	674,426.9	E
D - Y =	411,375.4	N	D - X =	674,407.3	E
E - Y =	414,034.7	N	E - X =	674,387.7	E
F - Y =	416,694.9	N	F - X =	674,383.2	E
G - Y =	403,383.2	N	G - X =	673,108.1	E
H - Y =	406,041.4	N	H - X =	673,098.4	E
I - Y =	408,699.2	N	I - X =	673,088.1	E
J - Y =	411,356.4	N	J - X =	673,071.3	E
K - Y =	414,014.0	N	K - X =	673,054.3	E
L - Y =	416,672.4	N	L - X =	673,047.0	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,340.6	N	A - X =	633,259.5	E
B - Y =	405,999.4	N	B - X =	633,250.9	E
C - Y =	408,658.4	N	C - X =	633,242.2	E
D - Y =	411,316.9	N	D - X =	633,227.7	E
E - Y =	413,976.1	N	E - X =	633,203.2	E
F - Y =	416,636.2	N	F - X =	633,198.7	E
G - Y =	403,324.9	N	G - X =	631,923.2	E
H - Y =	405,983.0	N	H - X =	631,913.6	E
I - Y =	408,640.7	N	I - X =	631,903.4	E
J - Y =	411,297.9	N	J - X =	631,886.7	E
K - Y =	413,955.4	N	K - X =	631,869.8	E
L - Y =	416,613.7	N	L - X =	631,862.6	E



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DATE: 8-6-2025 PROJECT NO: 2024060275
 DRAWN BY: LM SCALE: 1" = 2,000'
 CHECKED BY: WL SHEET: 2 OF 2
 FIELD CREW: IR REVISION: NO

Section 2 Summary:

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

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 926' and circulating cement back to surface.

3. Primary Casing Design

Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' - 926'	926'	9-5/8"	40	J55	BTC	New	13.90	12.82	5.32
8.75"	0' - 4000'	3904'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.02	8.70	3.43
8.75"	4000' - 8765'	8569'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.34	5.96	2.48
6.75"	0' - 8665'	8469'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.34	3.35	2.93
6.75"	8665' - 22362'	9435'	5-1/2"	20	P110-CY	Tenaris Wedge 441	New	1.18	2.72	2.70

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
 The planned kick off point is located at: 8915' MD / 8719' TVD.

Wellhead:

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

Wellhead will be installed by manufacturer's representatives.

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

4. Cement Program

Primary Cementing								
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	186	12.4	2.11	0	926	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	626	926	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	220	14.8	1.45	6409	8,765	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	993	13.2	1.44	8265	22,362	25%	Production 1 Class C Tail Cement

Bradenhead Cementing							
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	600	14.8	1.45	0 - 6409'	35%	Intermediate Class C Bradenhead Squeeze Cement

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment

Section 5 Summary:

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

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

No break testing will be done if intermediate casing point penetrates the Wolfcamp

Requested Variances

4A) Offline Cementing Variance

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

5A) Break Test Variance

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) Flex Hose Variance

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

8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

10A) Spudder Rig Variance

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

10B) Batch Drilling Variance

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Comments
			(ppg)	(sec/qt)	(cc)	
0' - 926'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
926' - 8765'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8765' - 22362'	6.75"	OBM	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

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

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

Section 7 Summary:

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

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

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

8. Logging, Coring and Testing Program

Section 8 Summary:

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

Section 9 Summary:

The estimated bottom hole temperature of 160F to 180F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

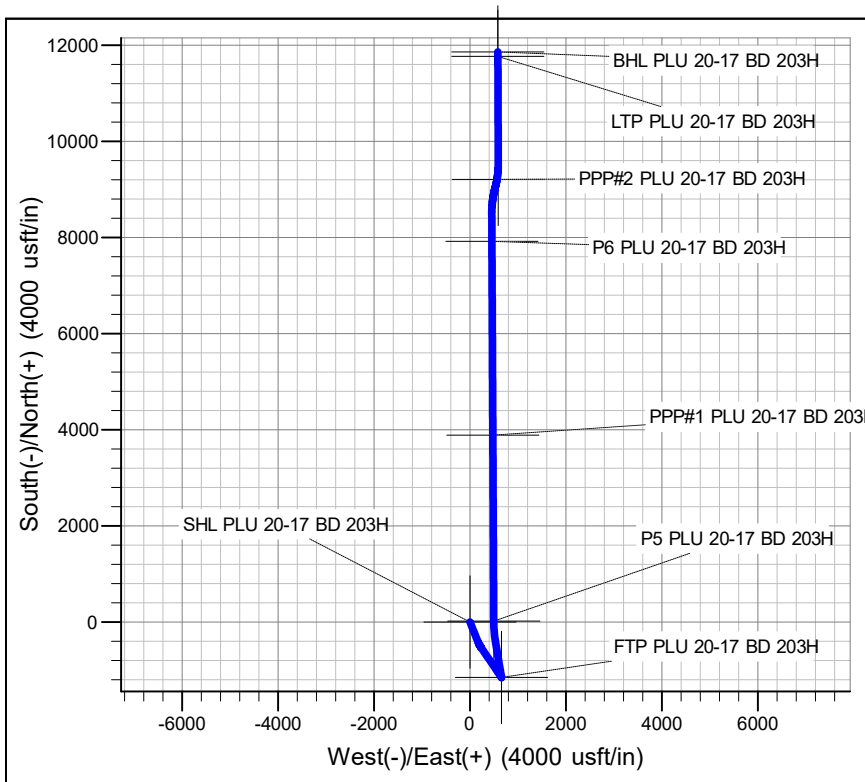
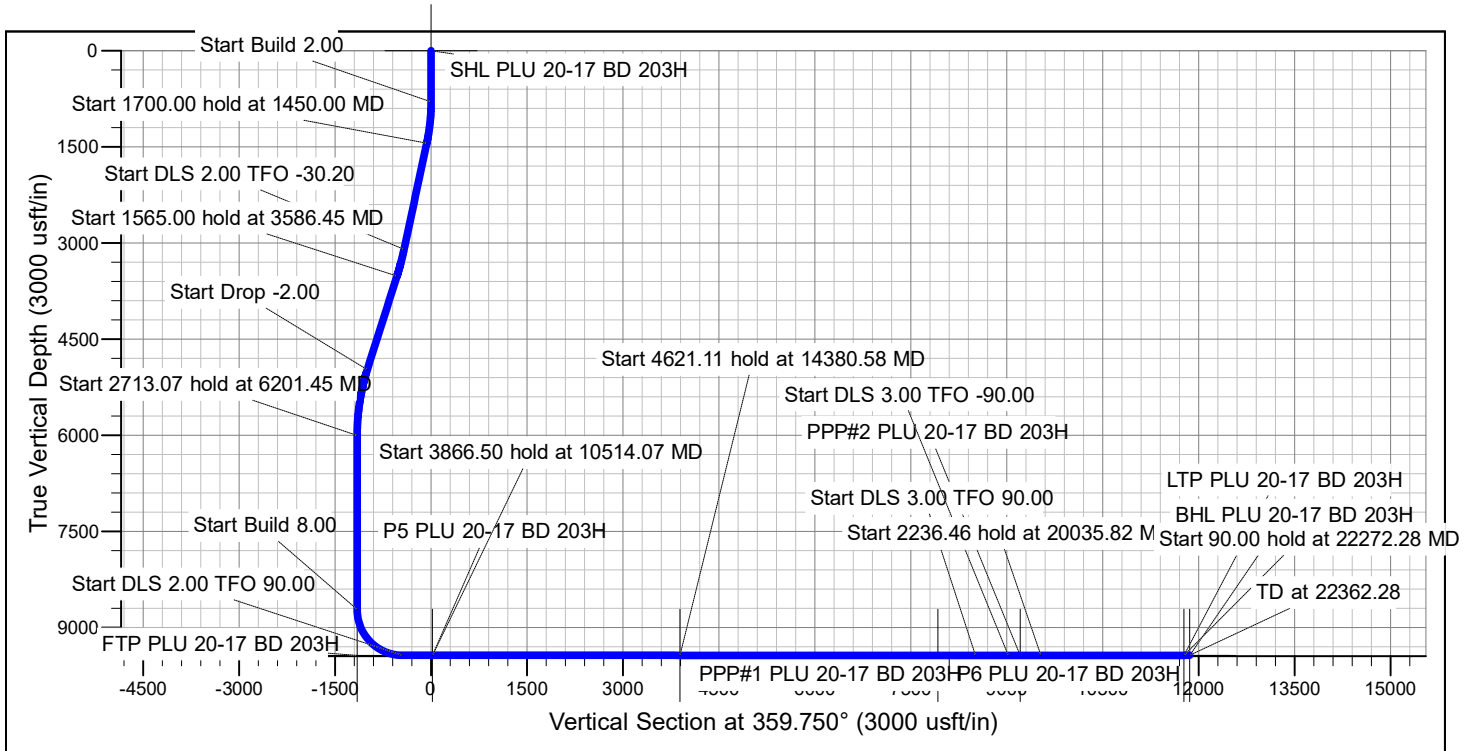
10. Anticipated Starting Date and Duration of Operations

Section 10 Summary:

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



Site: Poker Lake Unit 20-8/17 BD
 Well: Poker Lake Unit 20-17 BD 203H
 Wellbore: OH
 Design: Plan 0



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
726.97	726.97	Rustler
950.85	950.92	Salado
3240.59	3294.18	Base of Salt
3632.92	3709.51	Delaware
4538.80	4679.84	Cherry Canyon
6408.85	6604.56	Brushy Canyon
7147.17	7342.88	Basal Brushy Canyon
7681.55	7877.26	Bone Spring Lm.
7825.25	8020.96	Avalon
8221.70	8417.41	Lower Avalon
8379.79	8575.50	1st Bone Spring Sand
8739.14	8934.85	2nd Bone Spring Shale
8892.16	9089.61	2nd Bone Spring Lime
9051.23	9260.21	2nd Bone Spring Sand
9435.00	10039.51	2rd Bone Spring Sand Lower Landing

ROC

Long Lead - Poker Lake Unit 20-8/17 BD

Poker Lake Unit 20-8/17 BD

Poker Lake Unit 20-17 BD 203H

OH

Plan: Plan 0

Standard Planning Report

11 August, 2025

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Project	Long Lead - Poker Lake Unit 20-8/17 BD		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Poker Lake Unit 20-8/17 BD				
Site Position:		Northing:	404,765.20 usft	Latitude:	32° 6' 43.534 N
From:	Map	Easting:	632,484.70 usft	Longitude:	103° 54' 19.571 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Poker Lake Unit 20-17 BD 203H					
Well Position	+N/-S	0.00 usft	Northing:	404,764.40 usft	Latitude:	32° 6' 43.524 N
	+E/-W	0.00 usft	Easting:	632,544.70 usft	Longitude:	103° 54' 18.873 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,174.00 usft
Grid Convergence:	0.23 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/18/2025	6.22	59.62	46,978.99759259

Design	Plan 0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.750

Plan Survey Tool Program	Date	8/11/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,362.28 Plan 0 (OH)	XOM_R2OWSG MWD+IFR1+	
			OWSG MWD + IFR1 + Multi-St	

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,450.00	13.00	158.000	1,444.44	-68.08	27.51	2.00	2.00	0.00	158.00	
3,150.00	13.00	158.000	3,100.87	-422.65	170.76	0.00	0.00	0.00	0.00	
3,586.45	21.00	145.700	3,518.03	-532.98	233.34	2.00	1.83	-2.82	-30.20	
5,151.45	21.00	145.700	4,979.09	-996.30	549.39	0.00	0.00	0.00	0.00	
6,201.45	0.00	0.000	6,005.73	-1,153.48	656.62	2.00	-2.00	0.00	180.00	
8,914.51	0.00	0.000	8,718.80	-1,153.48	656.62	0.00	0.00	0.00	0.00	
10,039.51	90.00	350.235	9,435.00	-447.66	535.15	8.00	8.00	0.00	350.24	
10,514.07	90.00	359.726	9,435.00	24.54	493.67	2.00	0.00	2.00	90.00	
14,380.58	90.00	359.726	9,435.00	3,891.00	475.20	0.00	0.00	0.00	0.00	PPP#1 PLU 20-17 BC
19,001.69	90.00	359.726	9,435.00	8,512.06	453.12	0.00	0.00	0.00	0.00	
19,520.15	90.00	15.280	9,435.00	9,024.50	520.61	3.00	0.00	3.00	90.00	
20,035.82	90.00	359.810	9,435.00	9,534.15	588.12	3.00	0.00	-3.00	-90.00	
22,272.28	90.00	359.810	9,435.00	11,770.60	580.70	0.00	0.00	0.00	0.00	LTP PLU 20-17 BD 20
22,362.28	90.00	359.810	9,435.00	11,860.60	580.40	0.00	0.00	0.00	0.00	BHL PLU 20-17 BD 20

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	2.00	158.000	899.98	-1.62	0.65	-1.62	2.00	2.00	0.00	
1,000.00	4.00	158.000	999.84	-6.47	2.61	-6.48	2.00	2.00	0.00	
1,100.00	6.00	158.000	1,099.45	-14.55	5.88	-14.58	2.00	2.00	0.00	
1,200.00	8.00	158.000	1,198.70	-25.85	10.44	-25.90	2.00	2.00	0.00	
1,300.00	10.00	158.000	1,297.47	-40.35	16.30	-40.42	2.00	2.00	0.00	
1,400.00	12.00	158.000	1,395.62	-58.04	23.45	-58.15	2.00	2.00	0.00	
1,450.00	13.00	158.000	1,444.44	-68.08	27.51	-68.20	2.00	2.00	0.00	
1,500.00	13.00	158.000	1,493.16	-78.51	31.72	-78.64	0.00	0.00	0.00	
1,600.00	13.00	158.000	1,590.59	-99.36	40.15	-99.54	0.00	0.00	0.00	
1,700.00	13.00	158.000	1,688.03	-120.22	48.57	-120.43	0.00	0.00	0.00	
1,800.00	13.00	158.000	1,785.47	-141.08	57.00	-141.33	0.00	0.00	0.00	
1,900.00	13.00	158.000	1,882.90	-161.93	65.43	-162.22	0.00	0.00	0.00	
2,000.00	13.00	158.000	1,980.34	-182.79	73.85	-183.11	0.00	0.00	0.00	
2,100.00	13.00	158.000	2,077.78	-203.65	82.28	-204.01	0.00	0.00	0.00	
2,200.00	13.00	158.000	2,175.21	-224.51	90.71	-224.90	0.00	0.00	0.00	
2,300.00	13.00	158.000	2,272.65	-245.36	99.13	-245.79	0.00	0.00	0.00	
2,400.00	13.00	158.000	2,370.09	-266.22	107.56	-266.69	0.00	0.00	0.00	
2,500.00	13.00	158.000	2,467.53	-287.08	115.99	-287.58	0.00	0.00	0.00	
2,600.00	13.00	158.000	2,564.96	-307.93	124.41	-308.47	0.00	0.00	0.00	
2,700.00	13.00	158.000	2,662.40	-328.79	132.84	-329.37	0.00	0.00	0.00	
2,800.00	13.00	158.000	2,759.84	-349.65	141.27	-350.26	0.00	0.00	0.00	
2,900.00	13.00	158.000	2,857.27	-370.51	149.69	-371.16	0.00	0.00	0.00	
3,000.00	13.00	158.000	2,954.71	-391.36	158.12	-392.05	0.00	0.00	0.00	
3,100.00	13.00	158.000	3,052.15	-412.22	166.55	-412.94	0.00	0.00	0.00	
3,150.00	13.00	158.000	3,100.87	-422.65	170.76	-423.39	0.00	0.00	0.00	
3,200.00	13.87	155.902	3,149.50	-433.33	175.32	-434.10	2.00	1.75	-4.20	
3,300.00	15.66	152.404	3,246.19	-456.25	186.47	-457.05	2.00	1.79	-3.50	
3,400.00	17.50	149.616	3,342.03	-481.18	200.32	-482.05	2.00	1.84	-2.79	
3,500.00	19.37	147.346	3,436.90	-508.12	216.88	-509.06	2.00	1.87	-2.27	
3,586.45	21.00	145.700	3,518.03	-532.98	233.34	-533.99	2.00	1.89	-1.90	
3,600.00	21.00	145.700	3,530.69	-536.99	236.08	-538.02	0.00	0.00	0.00	
3,700.00	21.00	145.700	3,624.04	-566.60	256.27	-567.71	0.00	0.00	0.00	
3,800.00	21.00	145.700	3,717.40	-596.20	276.47	-597.40	0.00	0.00	0.00	
3,900.00	21.00	145.700	3,810.76	-625.81	296.66	-627.10	0.00	0.00	0.00	
4,000.00	21.00	145.700	3,904.12	-655.41	316.86	-656.79	0.00	0.00	0.00	
4,100.00	21.00	145.700	3,997.48	-685.02	337.05	-686.48	0.00	0.00	0.00	
4,200.00	21.00	145.700	4,090.83	-714.62	357.25	-716.17	0.00	0.00	0.00	
4,300.00	21.00	145.700	4,184.19	-744.23	377.44	-745.87	0.00	0.00	0.00	
4,400.00	21.00	145.700	4,277.55	-773.83	397.64	-775.56	0.00	0.00	0.00	
4,500.00	21.00	145.700	4,370.91	-803.44	417.83	-805.25	0.00	0.00	0.00	
4,600.00	21.00	145.700	4,464.27	-833.04	438.03	-834.94	0.00	0.00	0.00	
4,700.00	21.00	145.700	4,557.62	-862.65	458.22	-864.64	0.00	0.00	0.00	
4,800.00	21.00	145.700	4,650.98	-892.25	478.42	-894.33	0.00	0.00	0.00	
4,900.00	21.00	145.700	4,744.34	-921.86	498.61	-924.02	0.00	0.00	0.00	
5,000.00	21.00	145.700	4,837.70	-951.46	518.81	-953.71	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.00	21.00	145.700	4,931.06	-981.06	539.00	-983.41	0.00	0.00	0.00
5,151.45	21.00	145.700	4,979.09	-996.30	549.39	-998.68	0.00	0.00	0.00
5,200.00	20.03	145.700	5,024.56	-1,010.35	558.98	-1,012.78	2.00	-2.00	0.00
5,300.00	18.03	145.700	5,119.09	-1,037.28	577.35	-1,039.79	2.00	-2.00	0.00
5,400.00	16.03	145.700	5,214.70	-1,061.48	593.86	-1,064.06	2.00	-2.00	0.00
5,500.00	14.03	145.700	5,311.28	-1,082.90	608.47	-1,085.54	2.00	-2.00	0.00
5,600.00	12.03	145.700	5,408.70	-1,101.52	621.17	-1,104.22	2.00	-2.00	0.00
5,700.00	10.03	145.700	5,506.85	-1,117.32	631.95	-1,120.07	2.00	-2.00	0.00
5,800.00	8.03	145.700	5,605.60	-1,130.29	640.79	-1,133.07	2.00	-2.00	0.00
5,900.00	6.03	145.700	5,704.84	-1,140.39	647.69	-1,143.21	2.00	-2.00	0.00
6,000.00	4.03	145.700	5,804.45	-1,147.63	652.63	-1,150.47	2.00	-2.00	0.00
6,100.00	2.03	145.700	5,904.31	-1,152.00	655.61	-1,154.85	2.00	-2.00	0.00
6,200.00	0.03	145.700	6,004.29	-1,153.48	656.62	-1,156.34	2.00	-2.00	0.00
6,201.45	0.00	0.000	6,005.73	-1,153.48	656.62	-1,156.34	2.00	-2.00	0.00
6,300.00	0.00	0.000	6,104.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
6,400.00	0.00	0.000	6,204.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
6,500.00	0.00	0.000	6,304.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
6,600.00	0.00	0.000	6,404.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
6,700.00	0.00	0.000	6,504.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
6,800.00	0.00	0.000	6,604.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
6,900.00	0.00	0.000	6,704.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,000.00	0.00	0.000	6,804.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,100.00	0.00	0.000	6,904.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,200.00	0.00	0.000	7,004.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,300.00	0.00	0.000	7,104.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,400.00	0.00	0.000	7,204.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,500.00	0.00	0.000	7,304.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,600.00	0.00	0.000	7,404.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,700.00	0.00	0.000	7,504.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,800.00	0.00	0.000	7,604.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
7,900.00	0.00	0.000	7,704.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,000.00	0.00	0.000	7,804.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,100.00	0.00	0.000	7,904.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,200.00	0.00	0.000	8,004.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,300.00	0.00	0.000	8,104.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,400.00	0.00	0.000	8,204.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,500.00	0.00	0.000	8,304.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,600.00	0.00	0.000	8,404.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,700.00	0.00	0.000	8,504.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,800.00	0.00	0.000	8,604.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,900.00	0.00	0.000	8,704.29	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
8,914.51	0.00	0.000	8,718.80	-1,153.48	656.62	-1,156.34	0.00	0.00	0.00
9,000.00	6.84	350.235	8,804.09	-1,148.46	655.75	-1,151.31	8.00	8.00	0.00
9,100.00	14.84	350.235	8,902.22	-1,129.94	652.57	-1,132.78	8.00	8.00	0.00
9,200.00	22.84	350.235	8,996.79	-1,098.15	647.10	-1,100.96	8.00	8.00	0.00
9,300.00	30.84	350.235	9,085.94	-1,053.69	639.44	-1,056.47	8.00	8.00	0.00
9,400.00	38.84	350.235	9,167.95	-997.43	629.76	-1,000.17	8.00	8.00	0.00
9,500.00	46.84	350.235	9,241.22	-930.48	618.24	-933.17	8.00	8.00	0.00
9,600.00	54.84	350.235	9,304.32	-854.13	605.10	-856.76	8.00	8.00	0.00
9,700.00	62.84	350.235	9,356.02	-769.86	590.60	-772.43	8.00	8.00	0.00
9,800.00	70.84	350.235	9,395.32	-679.33	575.02	-681.83	8.00	8.00	0.00
9,900.00	78.84	350.235	9,421.45	-584.29	558.66	-586.72	8.00	8.00	0.00
10,000.00	86.84	350.235	9,433.91	-486.58	541.84	-488.94	8.00	8.00	0.00
10,039.51	90.00	350.235	9,435.00	-447.66	535.15	-449.99	8.00	8.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.00	90.00	351.445	9,435.00	-387.95	525.52	-390.24	2.00	0.00	2.00
10,200.00	90.00	353.445	9,435.00	-288.82	512.37	-291.05	2.00	0.00	2.00
10,300.00	90.00	355.445	9,435.00	-189.29	502.69	-191.49	2.00	0.00	2.00
10,400.00	90.00	357.445	9,435.00	-89.49	496.49	-91.66	2.00	0.00	2.00
10,500.00	90.00	359.445	9,435.00	10.47	493.78	8.31	2.00	0.00	2.00
10,514.07	90.00	359.726	9,435.00	24.54	493.67	22.39	2.00	0.00	2.00
10,600.00	90.00	359.726	9,435.00	110.46	493.26	108.31	0.00	0.00	0.00
10,700.00	90.00	359.726	9,435.00	210.46	492.79	208.31	0.00	0.00	0.00
10,800.00	90.00	359.726	9,435.00	310.46	492.31	308.31	0.00	0.00	0.00
10,900.00	90.00	359.726	9,435.00	410.46	491.83	408.31	0.00	0.00	0.00
11,000.00	90.00	359.726	9,435.00	510.46	491.35	508.31	0.00	0.00	0.00
11,100.00	90.00	359.726	9,435.00	610.46	490.87	608.31	0.00	0.00	0.00
11,200.00	90.00	359.726	9,435.00	710.46	490.40	708.31	0.00	0.00	0.00
11,300.00	90.00	359.726	9,435.00	810.46	489.92	808.31	0.00	0.00	0.00
11,400.00	90.00	359.726	9,435.00	910.46	489.44	908.31	0.00	0.00	0.00
11,500.00	90.00	359.726	9,435.00	1,010.45	488.96	1,008.31	0.00	0.00	0.00
11,600.00	90.00	359.726	9,435.00	1,110.45	488.49	1,108.31	0.00	0.00	0.00
11,700.00	90.00	359.726	9,435.00	1,210.45	488.01	1,208.31	0.00	0.00	0.00
11,800.00	90.00	359.726	9,435.00	1,310.45	487.53	1,308.31	0.00	0.00	0.00
11,900.00	90.00	359.726	9,435.00	1,410.45	487.05	1,408.31	0.00	0.00	0.00
12,000.00	90.00	359.726	9,435.00	1,510.45	486.57	1,508.31	0.00	0.00	0.00
12,100.00	90.00	359.726	9,435.00	1,610.45	486.10	1,608.31	0.00	0.00	0.00
12,200.00	90.00	359.726	9,435.00	1,710.45	485.62	1,708.31	0.00	0.00	0.00
12,300.00	90.00	359.726	9,435.00	1,810.45	485.14	1,808.31	0.00	0.00	0.00
12,400.00	90.00	359.726	9,435.00	1,910.44	484.66	1,908.31	0.00	0.00	0.00
12,500.00	90.00	359.726	9,435.00	2,010.44	484.19	2,008.31	0.00	0.00	0.00
12,600.00	90.00	359.726	9,435.00	2,110.44	483.71	2,108.31	0.00	0.00	0.00
12,700.00	90.00	359.726	9,435.00	2,210.44	483.23	2,208.31	0.00	0.00	0.00
12,800.00	90.00	359.726	9,435.00	2,310.44	482.75	2,308.31	0.00	0.00	0.00
12,900.00	90.00	359.726	9,435.00	2,410.44	482.27	2,408.31	0.00	0.00	0.00
13,000.00	90.00	359.726	9,435.00	2,510.44	481.80	2,508.31	0.00	0.00	0.00
13,100.00	90.00	359.726	9,435.00	2,610.44	481.32	2,608.31	0.00	0.00	0.00
13,200.00	90.00	359.726	9,435.00	2,710.43	480.84	2,708.31	0.00	0.00	0.00
13,300.00	90.00	359.726	9,435.00	2,810.43	480.36	2,808.31	0.00	0.00	0.00
13,400.00	90.00	359.726	9,435.00	2,910.43	479.89	2,908.31	0.00	0.00	0.00
13,500.00	90.00	359.726	9,435.00	3,010.43	479.41	3,008.31	0.00	0.00	0.00
13,600.00	90.00	359.726	9,435.00	3,110.43	478.93	3,108.31	0.00	0.00	0.00
13,700.00	90.00	359.726	9,435.00	3,210.43	478.45	3,208.31	0.00	0.00	0.00
13,800.00	90.00	359.726	9,435.00	3,310.43	477.97	3,308.31	0.00	0.00	0.00
13,900.00	90.00	359.726	9,435.00	3,410.43	477.50	3,408.31	0.00	0.00	0.00
14,000.00	90.00	359.726	9,435.00	3,510.43	477.02	3,508.31	0.00	0.00	0.00
14,100.00	90.00	359.726	9,435.00	3,610.42	476.54	3,608.31	0.00	0.00	0.00
14,200.00	90.00	359.726	9,435.00	3,710.42	476.06	3,708.31	0.00	0.00	0.00
14,300.00	90.00	359.726	9,435.00	3,810.42	475.59	3,808.31	0.00	0.00	0.00
14,380.58	90.00	359.726	9,435.00	3,891.00	475.20	3,888.89	0.00	0.00	0.00
14,400.00	90.00	359.726	9,435.00	3,910.42	475.11	3,908.31	0.00	0.00	0.00
14,500.00	90.00	359.726	9,435.00	4,010.42	474.63	4,008.31	0.00	0.00	0.00
14,600.00	90.00	359.726	9,435.00	4,110.42	474.15	4,108.31	0.00	0.00	0.00
14,700.00	90.00	359.726	9,435.00	4,210.42	473.67	4,208.31	0.00	0.00	0.00
14,800.00	90.00	359.726	9,435.00	4,310.42	473.20	4,308.31	0.00	0.00	0.00
14,900.00	90.00	359.726	9,435.00	4,410.42	472.72	4,408.31	0.00	0.00	0.00
15,000.00	90.00	359.726	9,435.00	4,510.41	472.24	4,508.31	0.00	0.00	0.00
15,100.00	90.00	359.726	9,435.00	4,610.41	471.76	4,608.31	0.00	0.00	0.00
15,200.00	90.00	359.726	9,435.00	4,710.41	471.28	4,708.31	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,300.00	90.00	359.726	9,435.00	4,810.41	470.81	4,808.31	0.00	0.00	0.00
15,400.00	90.00	359.726	9,435.00	4,910.41	470.33	4,908.31	0.00	0.00	0.00
15,500.00	90.00	359.726	9,435.00	5,010.41	469.85	5,008.31	0.00	0.00	0.00
15,600.00	90.00	359.726	9,435.00	5,110.41	469.37	5,108.31	0.00	0.00	0.00
15,700.00	90.00	359.726	9,435.00	5,210.41	468.90	5,208.31	0.00	0.00	0.00
15,800.00	90.00	359.726	9,435.00	5,310.41	468.42	5,308.31	0.00	0.00	0.00
15,900.00	90.00	359.726	9,435.00	5,410.40	467.94	5,408.31	0.00	0.00	0.00
16,000.00	90.00	359.726	9,435.00	5,510.40	467.46	5,508.31	0.00	0.00	0.00
16,100.00	90.00	359.726	9,435.00	5,610.40	466.98	5,608.31	0.00	0.00	0.00
16,200.00	90.00	359.726	9,435.00	5,710.40	466.51	5,708.31	0.00	0.00	0.00
16,300.00	90.00	359.726	9,435.00	5,810.40	466.03	5,808.31	0.00	0.00	0.00
16,400.00	90.00	359.726	9,435.00	5,910.40	465.55	5,908.31	0.00	0.00	0.00
16,500.00	90.00	359.726	9,435.00	6,010.40	465.07	6,008.31	0.00	0.00	0.00
16,600.00	90.00	359.726	9,435.00	6,110.40	464.60	6,108.31	0.00	0.00	0.00
16,700.00	90.00	359.726	9,435.00	6,210.39	464.12	6,208.31	0.00	0.00	0.00
16,800.00	90.00	359.726	9,435.00	6,310.39	463.64	6,308.31	0.00	0.00	0.00
16,900.00	90.00	359.726	9,435.00	6,410.39	463.16	6,408.31	0.00	0.00	0.00
17,000.00	90.00	359.726	9,435.00	6,510.39	462.68	6,508.31	0.00	0.00	0.00
17,100.00	90.00	359.726	9,435.00	6,610.39	462.21	6,608.31	0.00	0.00	0.00
17,200.00	90.00	359.726	9,435.00	6,710.39	461.73	6,708.31	0.00	0.00	0.00
17,300.00	90.00	359.726	9,435.00	6,810.39	461.25	6,808.31	0.00	0.00	0.00
17,400.00	90.00	359.726	9,435.00	6,910.39	460.77	6,908.31	0.00	0.00	0.00
17,500.00	90.00	359.726	9,435.00	7,010.39	460.30	7,008.31	0.00	0.00	0.00
17,600.00	90.00	359.726	9,435.00	7,110.38	459.82	7,108.31	0.00	0.00	0.00
17,700.00	90.00	359.726	9,435.00	7,210.38	459.34	7,208.31	0.00	0.00	0.00
17,800.00	90.00	359.726	9,435.00	7,310.38	458.86	7,308.31	0.00	0.00	0.00
17,900.00	90.00	359.726	9,435.00	7,410.38	458.38	7,408.31	0.00	0.00	0.00
18,000.00	90.00	359.726	9,435.00	7,510.38	457.91	7,508.31	0.00	0.00	0.00
18,100.00	90.00	359.726	9,435.00	7,610.38	457.43	7,608.31	0.00	0.00	0.00
18,200.00	90.00	359.726	9,435.00	7,710.38	456.95	7,708.31	0.00	0.00	0.00
18,300.00	90.00	359.726	9,435.00	7,810.38	456.47	7,808.31	0.00	0.00	0.00
18,400.00	90.00	359.726	9,435.00	7,910.38	456.00	7,908.31	0.00	0.00	0.00
18,500.00	90.00	359.726	9,435.00	8,010.37	455.52	8,008.31	0.00	0.00	0.00
18,600.00	90.00	359.726	9,435.00	8,110.37	455.04	8,108.31	0.00	0.00	0.00
18,700.00	90.00	359.726	9,435.00	8,210.37	454.56	8,208.31	0.00	0.00	0.00
18,800.00	90.00	359.726	9,435.00	8,310.37	454.08	8,308.31	0.00	0.00	0.00
18,900.00	90.00	359.726	9,435.00	8,410.37	453.61	8,408.31	0.00	0.00	0.00
19,000.00	90.00	359.726	9,435.00	8,510.37	453.13	8,508.31	0.00	0.00	0.00
19,001.69	90.00	359.726	9,435.00	8,512.06	453.12	8,510.00	0.00	0.00	0.00
19,100.00	90.00	2.676	9,435.00	8,610.34	455.18	8,608.27	3.00	0.00	3.00
19,200.00	90.00	5.676	9,435.00	8,710.06	462.46	8,707.96	3.00	0.00	3.00
19,300.00	90.00	8.676	9,435.00	8,809.26	474.95	8,807.11	3.00	0.00	3.00
19,400.00	90.00	11.676	9,435.00	8,907.68	492.62	8,905.45	3.00	0.00	3.00
19,500.00	90.00	14.676	9,435.00	9,005.04	515.41	9,002.70	3.00	0.00	3.00
19,520.15	90.00	15.280	9,435.00	9,024.50	520.61	9,022.14	3.00	0.00	3.00
19,600.00	90.00	12.884	9,435.00	9,101.95	540.04	9,099.50	3.00	0.00	-3.00
19,700.00	90.00	9.884	9,435.00	9,199.97	559.78	9,197.44	3.00	0.00	-3.00
19,800.00	90.00	6.884	9,435.00	9,298.89	574.36	9,296.29	3.00	0.00	-3.00
19,900.00	90.00	3.884	9,435.00	9,398.44	583.74	9,395.80	3.00	0.00	-3.00
20,000.00	90.00	0.884	9,435.00	9,498.34	587.90	9,495.68	3.00	0.00	-3.00
20,035.82	90.00	359.810	9,435.00	9,534.15	588.12	9,531.50	3.00	0.00	-3.00
20,100.00	90.00	359.810	9,435.00	9,598.34	587.91	9,595.68	0.00	0.00	0.00
20,200.00	90.00	359.810	9,435.00	9,698.34	587.57	9,695.68	0.00	0.00	0.00
20,300.00	90.00	359.810	9,435.00	9,798.34	587.24	9,795.68	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

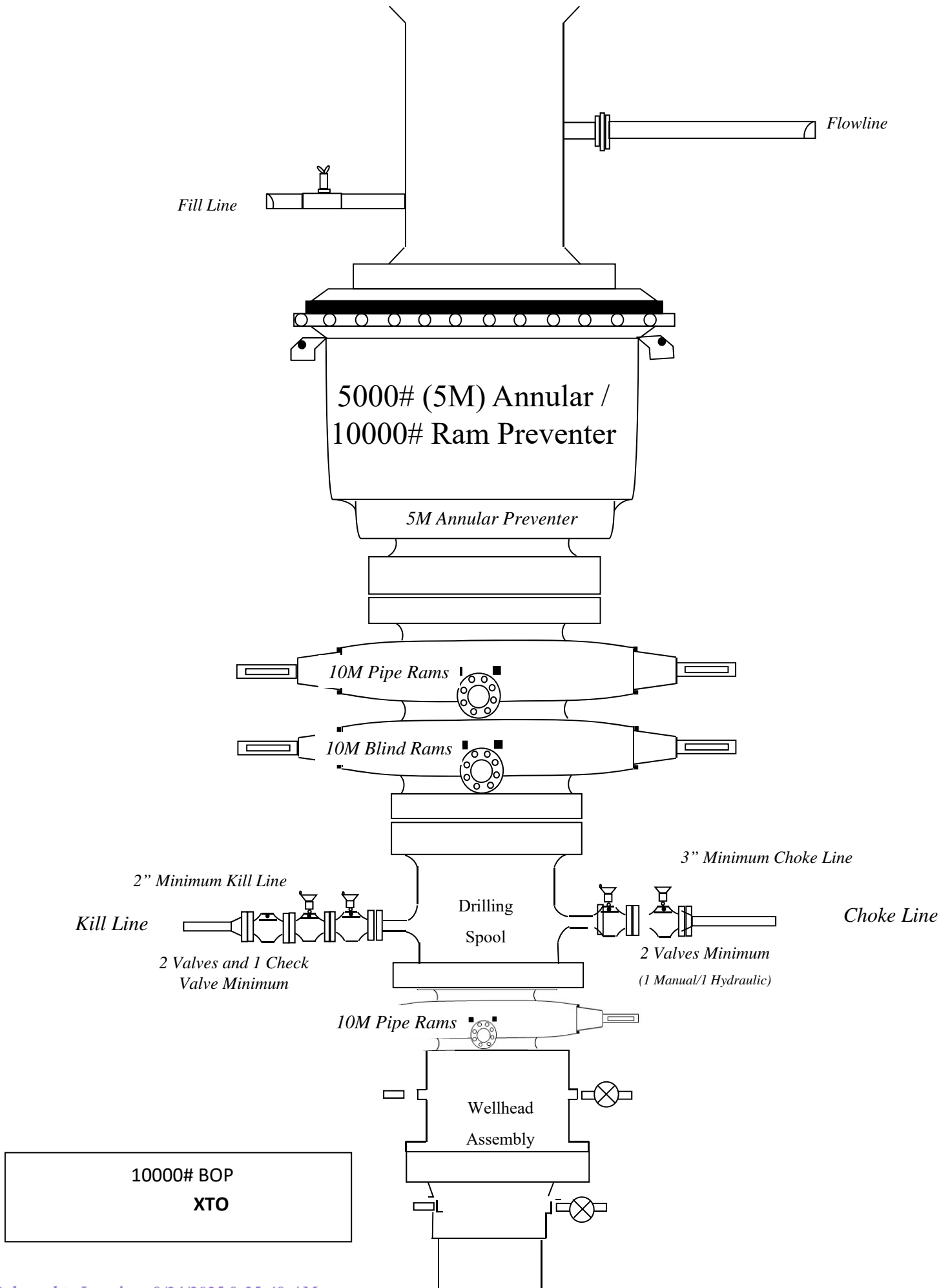
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,400.00	90.00	359.810	9,435.00	9,898.33	586.91	9,895.68	0.00	0.00	0.00	
20,500.00	90.00	359.810	9,435.00	9,998.33	586.58	9,995.68	0.00	0.00	0.00	
20,600.00	90.00	359.810	9,435.00	10,098.33	586.25	10,095.68	0.00	0.00	0.00	
20,700.00	90.00	359.810	9,435.00	10,198.33	585.91	10,195.68	0.00	0.00	0.00	
20,800.00	90.00	359.810	9,435.00	10,298.33	585.58	10,295.68	0.00	0.00	0.00	
20,900.00	90.00	359.810	9,435.00	10,398.33	585.25	10,395.68	0.00	0.00	0.00	
21,000.00	90.00	359.810	9,435.00	10,498.33	584.92	10,495.68	0.00	0.00	0.00	
21,100.00	90.00	359.810	9,435.00	10,598.33	584.59	10,595.68	0.00	0.00	0.00	
21,200.00	90.00	359.810	9,435.00	10,698.33	584.26	10,695.68	0.00	0.00	0.00	
21,300.00	90.00	359.810	9,435.00	10,798.33	583.92	10,795.68	0.00	0.00	0.00	
21,400.00	90.00	359.810	9,435.00	10,898.33	583.59	10,895.68	0.00	0.00	0.00	
21,500.00	90.00	359.810	9,435.00	10,998.33	583.26	10,995.68	0.00	0.00	0.00	
21,600.00	90.00	359.810	9,435.00	11,098.33	582.93	11,095.68	0.00	0.00	0.00	
21,700.00	90.00	359.810	9,435.00	11,198.33	582.60	11,195.68	0.00	0.00	0.00	
21,800.00	90.00	359.810	9,435.00	11,298.33	582.27	11,295.68	0.00	0.00	0.00	
21,900.00	90.00	359.810	9,435.00	11,398.33	581.93	11,395.68	0.00	0.00	0.00	
22,000.00	90.00	359.810	9,435.00	11,498.33	581.60	11,495.68	0.00	0.00	0.00	
22,100.00	90.00	359.810	9,435.00	11,598.33	581.27	11,595.68	0.00	0.00	0.00	
22,200.00	90.00	359.810	9,435.00	11,698.32	580.94	11,695.68	0.00	0.00	0.00	
22,272.28	90.00	359.810	9,435.00	11,770.60	580.70	11,767.95	0.00	0.00	0.00	
22,300.00	90.00	359.810	9,435.00	11,798.32	580.61	11,795.68	0.00	0.00	0.00	
22,362.28	90.00	359.810	9,435.00	11,860.60	580.40	11,857.95	0.00	0.00	0.00	

Planning Report

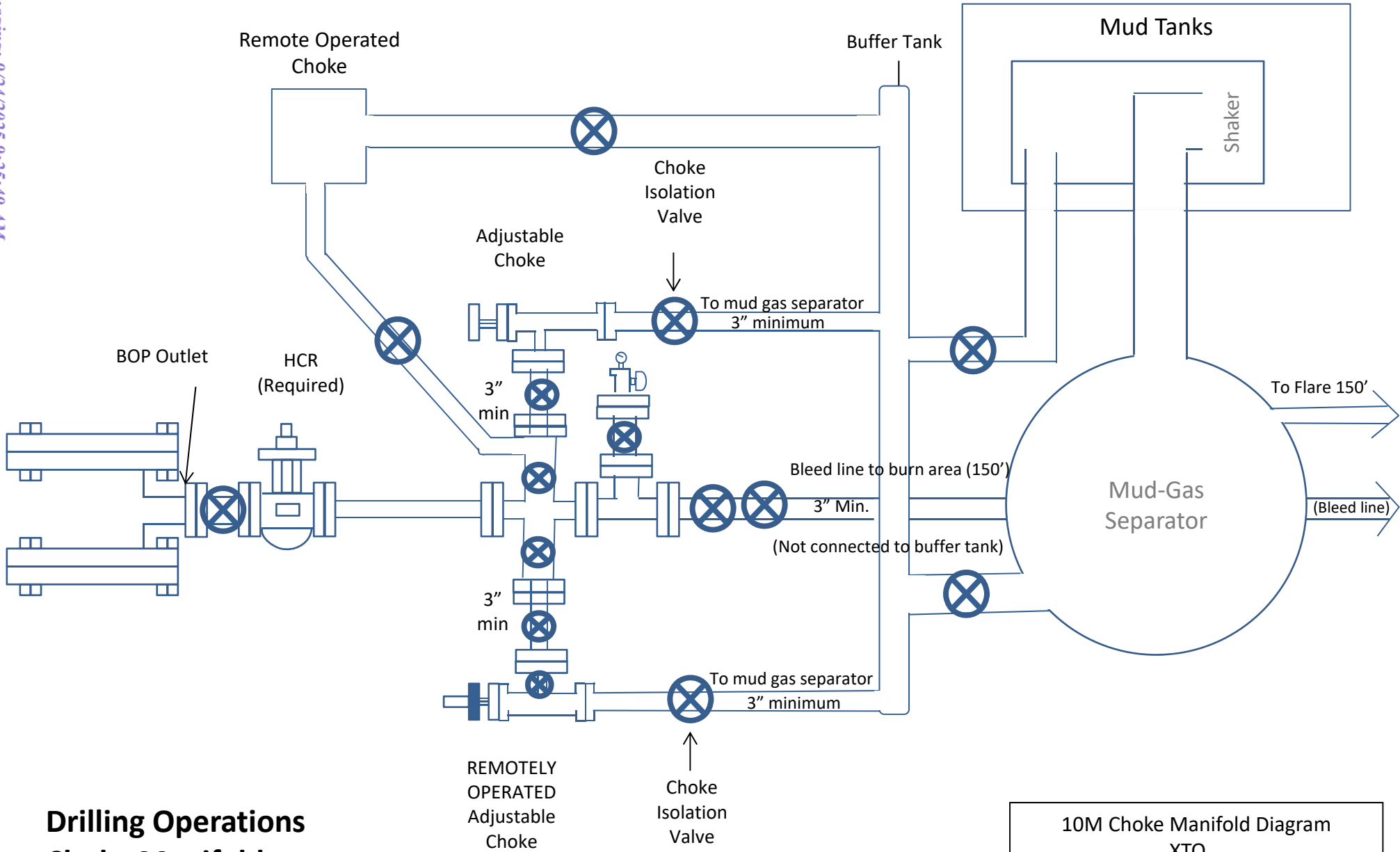
Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 20-17 BD 203H
Company:	ROC	TVD Reference:	RKB32' @ 3206.00usft (TBD)
Project:	Long Lead - Poker Lake Unit 20-8/17 BD	MD Reference:	RKB32' @ 3206.00usft (TBD)
Site:	Poker Lake Unit 20-8/17 BD	North Reference:	Grid
Well:	Poker Lake Unit 20-17 BD 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
SHL PLU 20-17 BD 203I - plan hits target center - Rectangle (sides W20.00 H20.00 D0.00)	0.00	0.000	0.00	0.00	0.00	404,764.40	632,544.70	32° 6' 43.524 N	103° 54' 18.873 W	
PPP#2 PLU 20-17 BD 2I - plan misses target center by 27.21usft at 19714.91usft MD (9435.00 TVD, 9214.67 N, 562.28 E) - Point	0.00	0.000	9,435.00	9,210.70	589.20	413,975.10	633,133.90	32° 8' 14.652 N	103° 54' 11.595 W	
P5 PLU 20-17 BD 203H - plan misses target center by 0.01usft at 10510.63usft MD (9435.00 TVD, 21.10 N, 493.69 E) - Point	0.00	0.000	9,435.00	21.10	493.70	404,785.50	633,038.40	32° 6' 43.713 N	103° 54' 13.132 W	
LTP PLU 20-17 BD 203I - plan hits target center - Point	0.00	0.000	9,435.00	11,770.60	580.70	416,535.00	633,125.40	32° 8' 39.986 N	103° 54' 11.575 W	
P6 PLU 20-17 BD 203H - plan misses target center by 0.13usft at 18413.03usft MD (9435.00 TVD, 7923.40 N, 455.93 E) - Point	0.00	0.000	9,435.00	7,923.40	455.80	412,687.80	633,000.50	32° 8' 1.918 N	103° 54' 13.206 W	
BHL PLU 20-17 BD 203I - plan hits target center - Point	0.00	0.000	9,435.00	11,860.60	580.40	416,625.00	633,125.10	32° 8' 40.877 N	103° 54' 11.575 W	
FTP PLU 20-17 BD 203I - plan misses target center by 296.25usft at 9488.92usft MD (9233.58 TVD, -938.39 N, 619.60 E) - Point	0.00	0.000	9,435.00	-1,152.40	656.90	403,612.00	633,201.60	32° 6' 32.094 N	103° 54' 11.289 W	
PPP#1 PLU 20-17 BD 2I - plan hits target center - Point	0.00	0.000	9,435.00	3,891.00	475.20	408,655.40	633,019.90	32° 7' 22.012 N	103° 54' 13.168 W	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
726.97	726.97	Rustler				
950.92	950.85	Salado				
3,294.18	3,240.59	Base of Salt				
3,709.51	3,632.92	Delaware				
4,679.84	4,538.80	Cherry Canyon				
6,604.56	6,408.85	Brushy Canyon				
7,342.88	7,147.17	Basal Brushy Canyon				
7,877.26	7,681.55	Bone Spring Lm.				
8,020.96	7,825.25	Avalon				
8,417.41	8,221.70	Lower Avalon				
8,575.50	8,379.79	1st Bone Spring Sand				
8,934.85	8,739.14	2nd Bone Spring Shale				
9,089.61	8,892.16	2nd Bone Spring Lime				
9,260.21	9,051.23	2nd Bone Spring Sand				
10,039.51	9,435.00	2rd Bone Spring Sand Lower Landing		0.00		



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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
 XTO



TenarisHydril Wedge 511



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

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

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

Connection Data

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

Notes

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TenarisHydril Wedge 511



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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	417 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	6890 psi	Maximum	10,300 ft-lb
Threads per inch	328	Compression Efficiency	73.80 %		
Connection OD Option	Regular	Compression Strength	504 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	29.33 °/100 ft	Operating Torque	35,000 ft-lb
		External Pressure Capacity	5900 psi	Yield Torque	52,000 ft-lb

Notes

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TenarisHydril Wedge 441®



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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	594 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %		
Threads per inch	3.40	Compression Strength	594 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	84.76 °/100 ft	Operating Torque	36,000 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

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

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TenarisHydril Wedge 441®



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

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

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Body Yield Strength	641 x1000 lb
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft	Min. Internal Yield Pressure	12,640 psi
Drift	4.653 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.778 in.			Collapse Pressure	11,100 psi

Connection Data

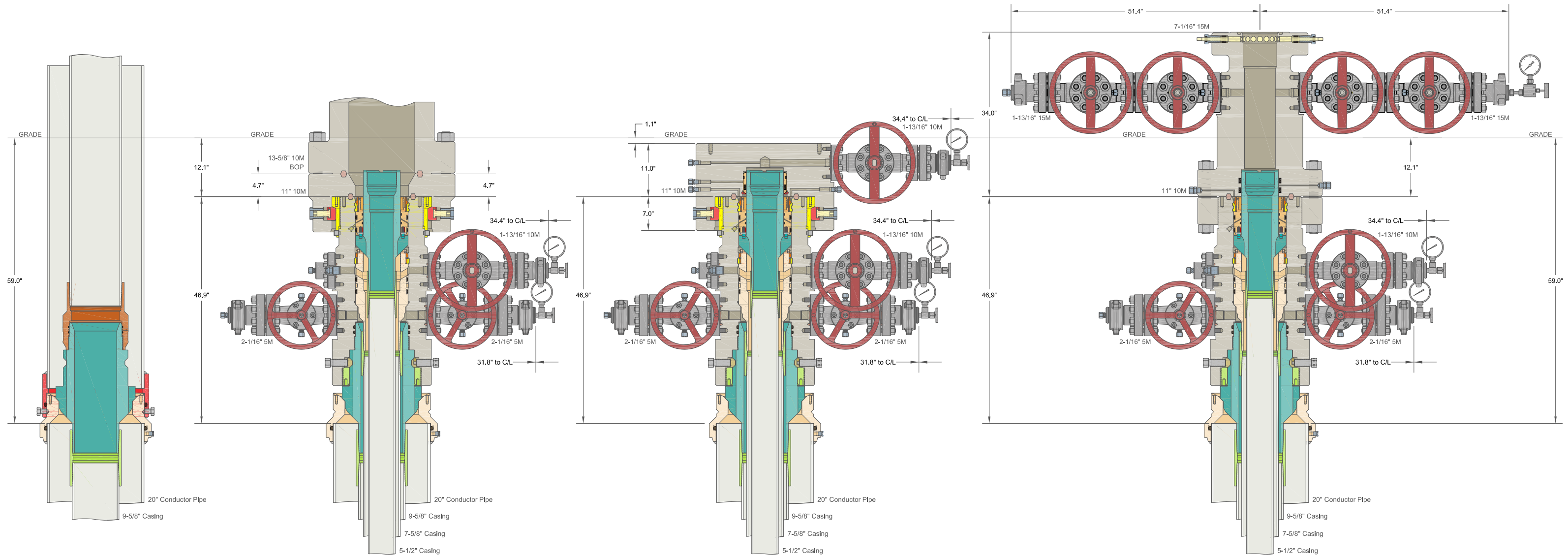
Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	522 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %		
Threads per inch	3.40	Compression Strength	522 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	72.59 °/100 ft	Operating Torque	32,000 ft-lb
		External Pressure Capacity	11,100 psi	Yield Torque	38,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

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

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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

XTO Permian Operating, LLC. states that we will not introduce any additives that contain PFAS chemicals in the completion or recompletion of the well and will meet the certification requirement.

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.

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.

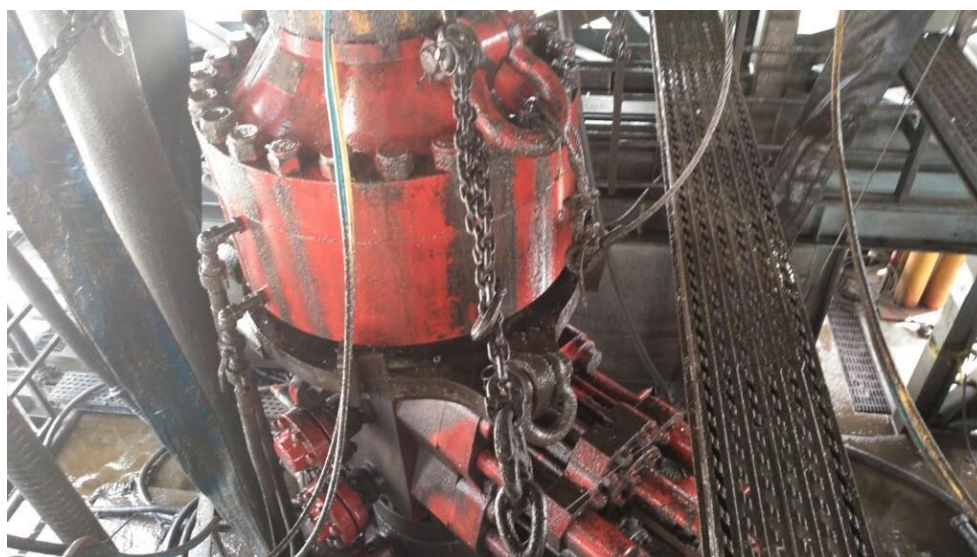


Figure 1: Winch System attached to BOP Stack



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 ^{3c} psig (MPa)	Pressure Test—High Pressure ^{3c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{3d}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
³ Pressure test evaluation periods shall be a minimum of five minutes. No visible leaks. The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure. ^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program. ^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. ^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually. ^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.			

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

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

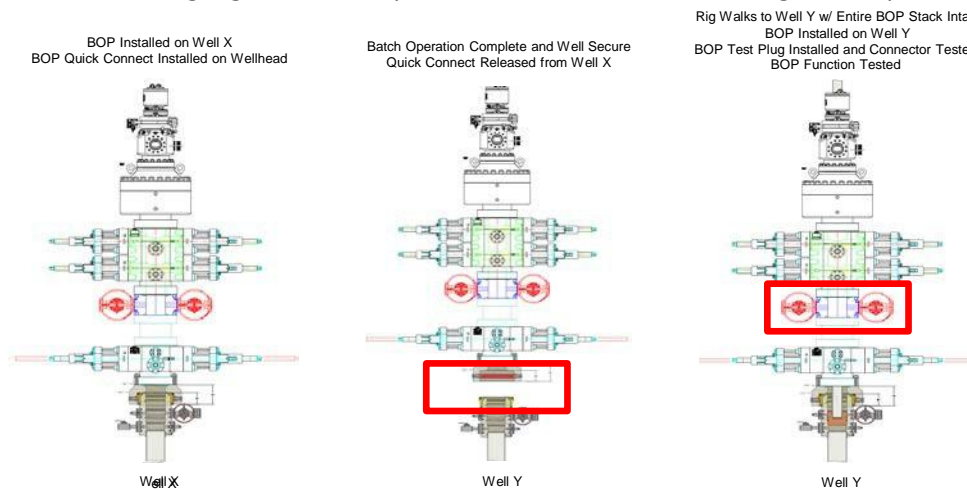
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

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

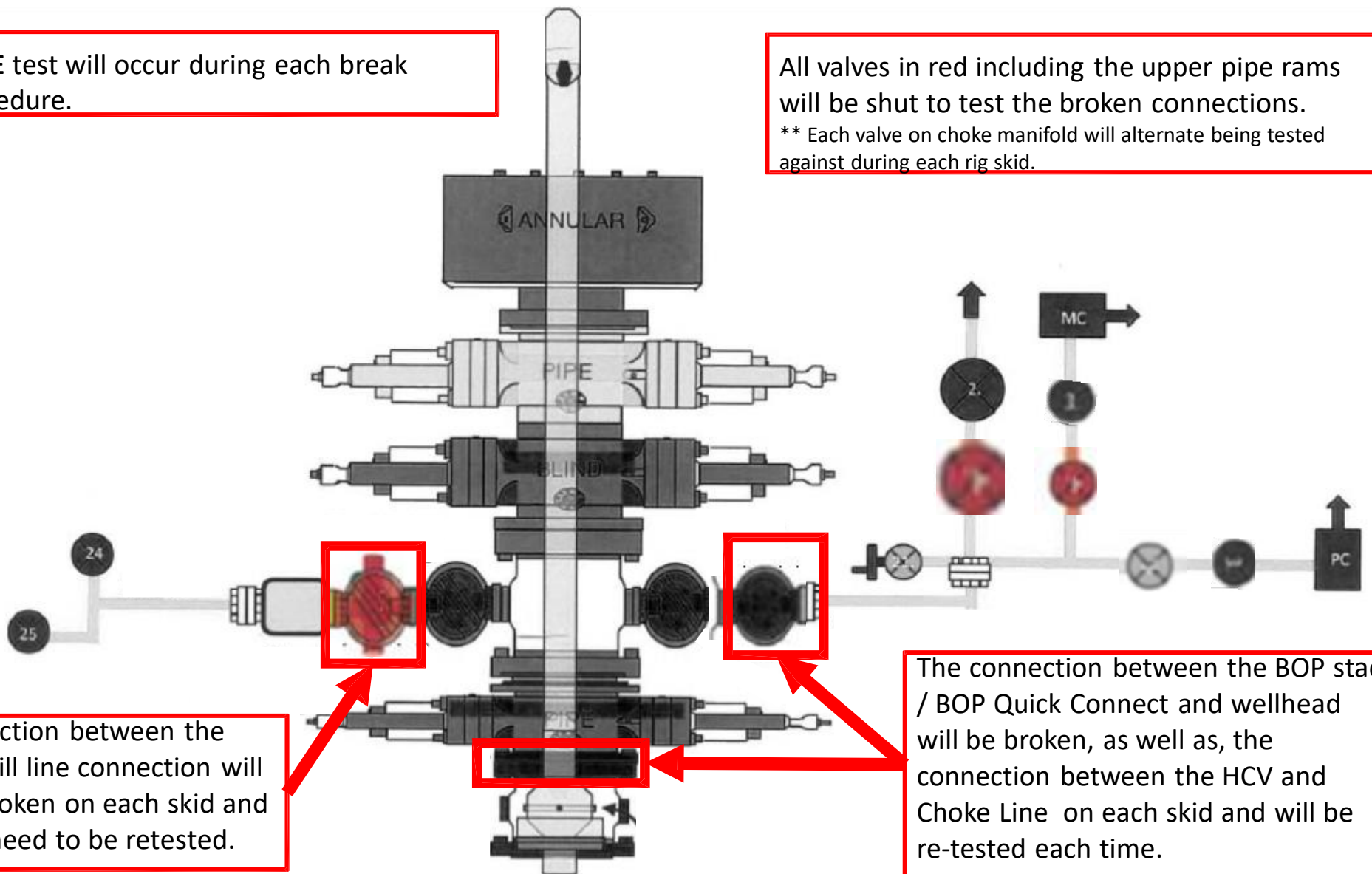
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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

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

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

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each skid.



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

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



BLACK GOLD®

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*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:

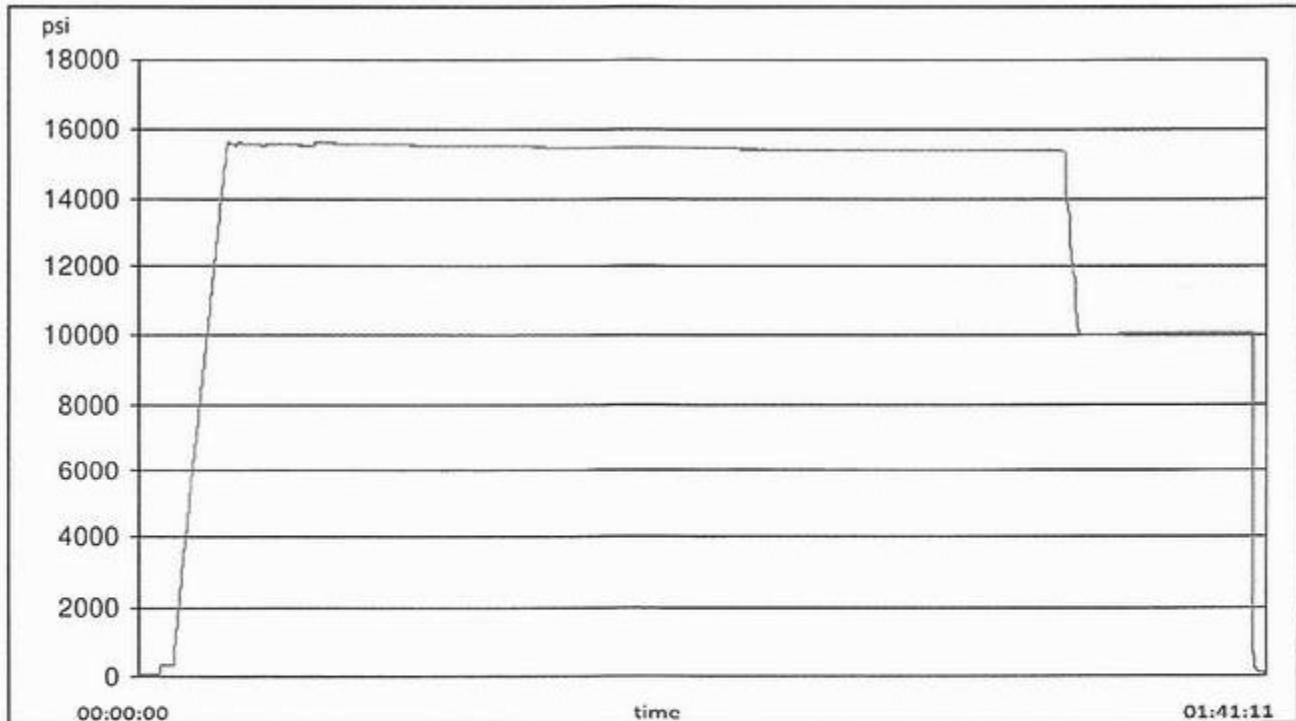
TEST INFORMATION

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





H3-15/16

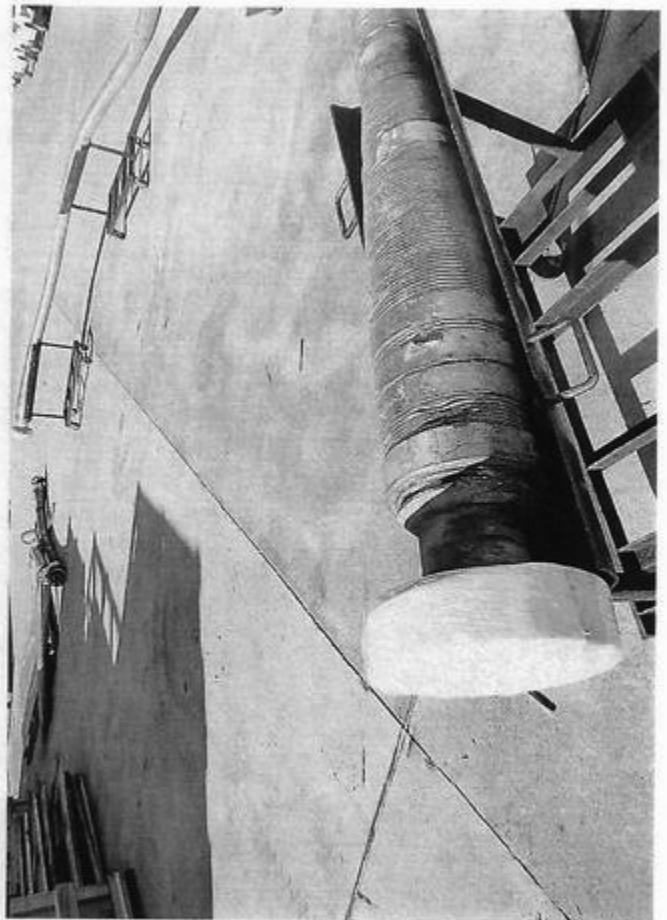
1/25/2024 11:48:06 AM

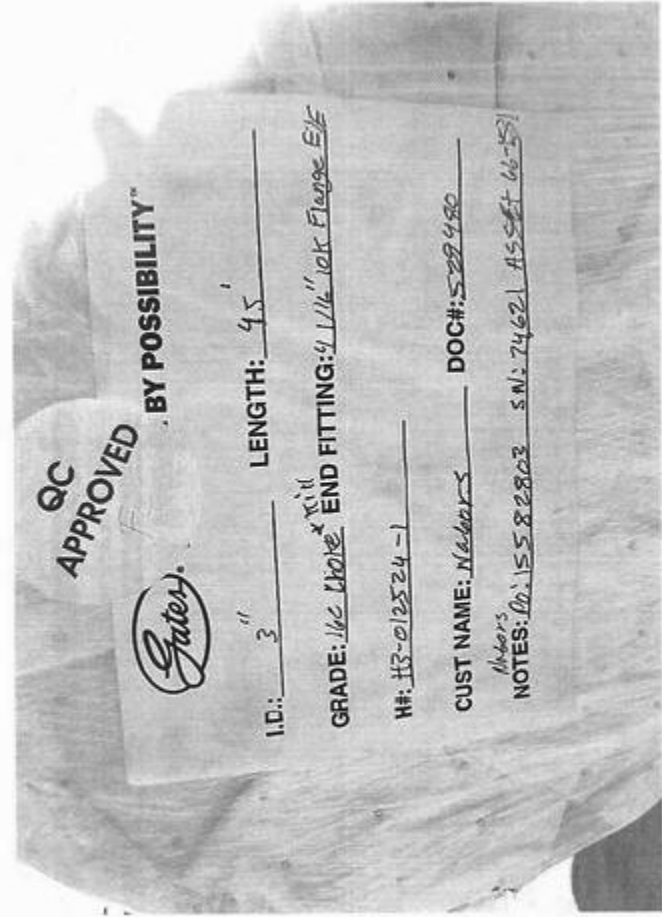
TEST REPORT

GAUGE TRACEABILITY

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

Comment





XTO Permian Operating, LLC Offline Cementing Variance Request

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

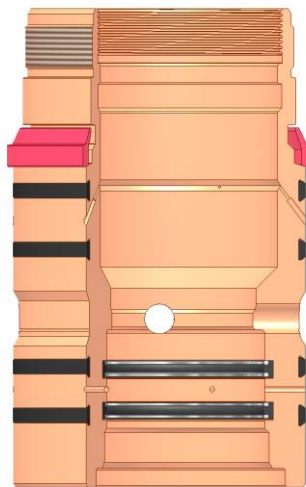
1. Cement Program

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

2. Offline Cementing Procedure

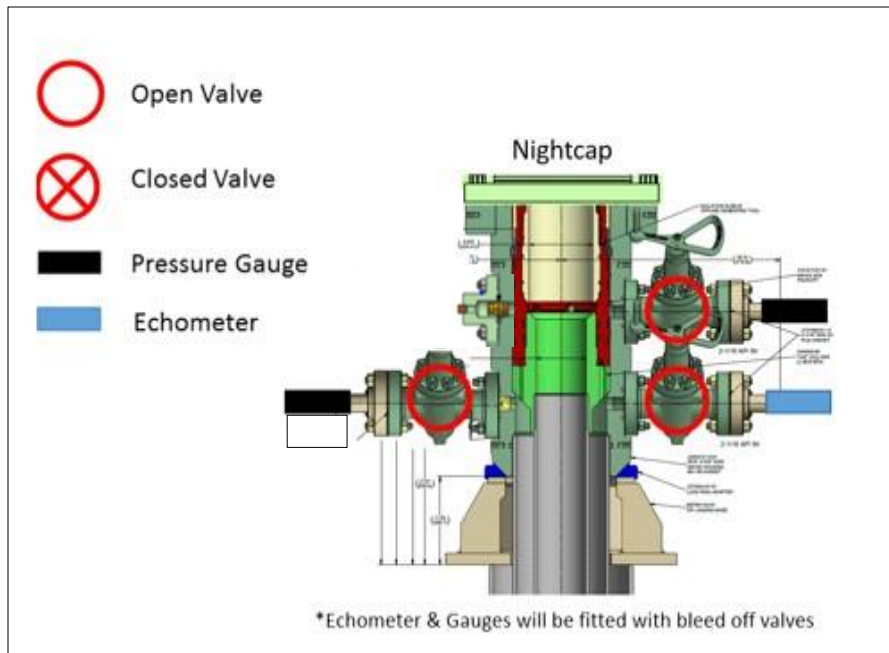
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



Annular packoff with both external and internal seals

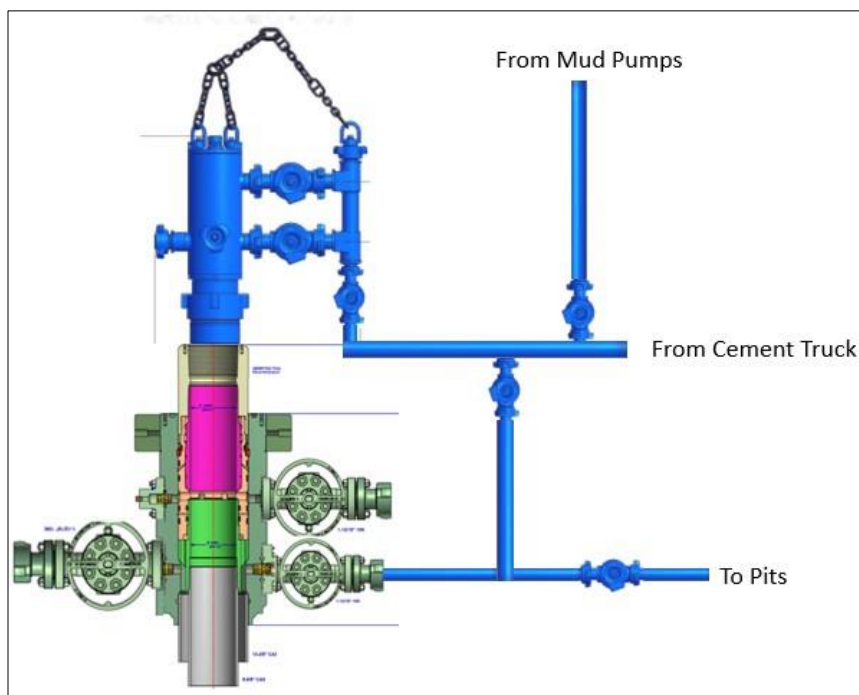
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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



Offline Production Cementing

Delaware Basin | 18 March 2025

Energy lives here™

Variance Request for Offline Production Cementing

Proposal: allow wells that meet set criteria to perform production casing cement jobs offline, consistent with ExxonMobil's extensive experience safely and effectively cementing production casing strings offline in Texas

Supporting Materials:

- Criteria for offline production cementing
- Proposed procedure
- Process and equipment
- Barrier comparison

Criteria for Offline Cementing

The following conditions must be met to proceed with offline production cementing on Wolfcamp target formations or shallower:

- a) *Casing hanger successfully landed in the wellhead*
- b) *Ability to circulate overbalanced mud weight*
- c) *Initiate offline cementing operations within 24hr of landing casing*
- d) *All well control barriers test successfully and BLM notified of intent to perform offline production cementing prior to N/D BOP*
- e) *No offset frac operations within 1 mile and within the same target horizon*
- f) *Well Control certified ExxonMobil Operations Supervisor to be present during offline cementing operation to monitor returns*
- g) *Drill ahead operations will not begin on next well until offline production cement operations have concluded*

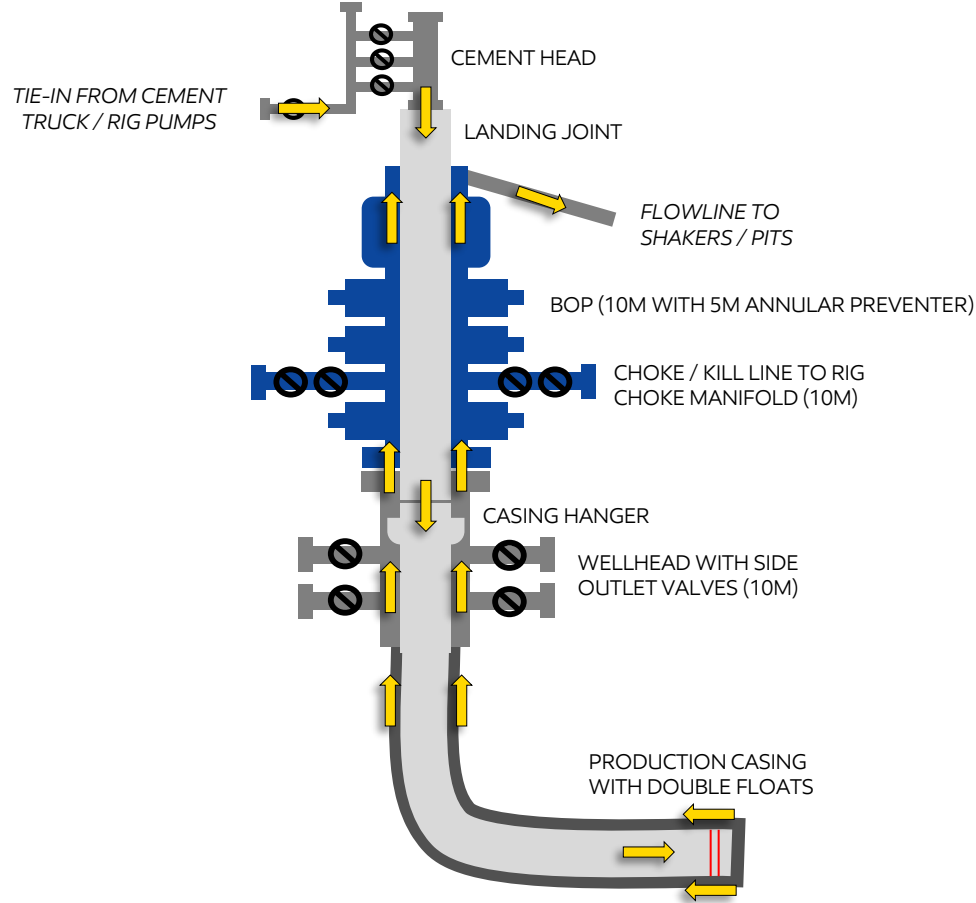


Offline Cementing Procedure

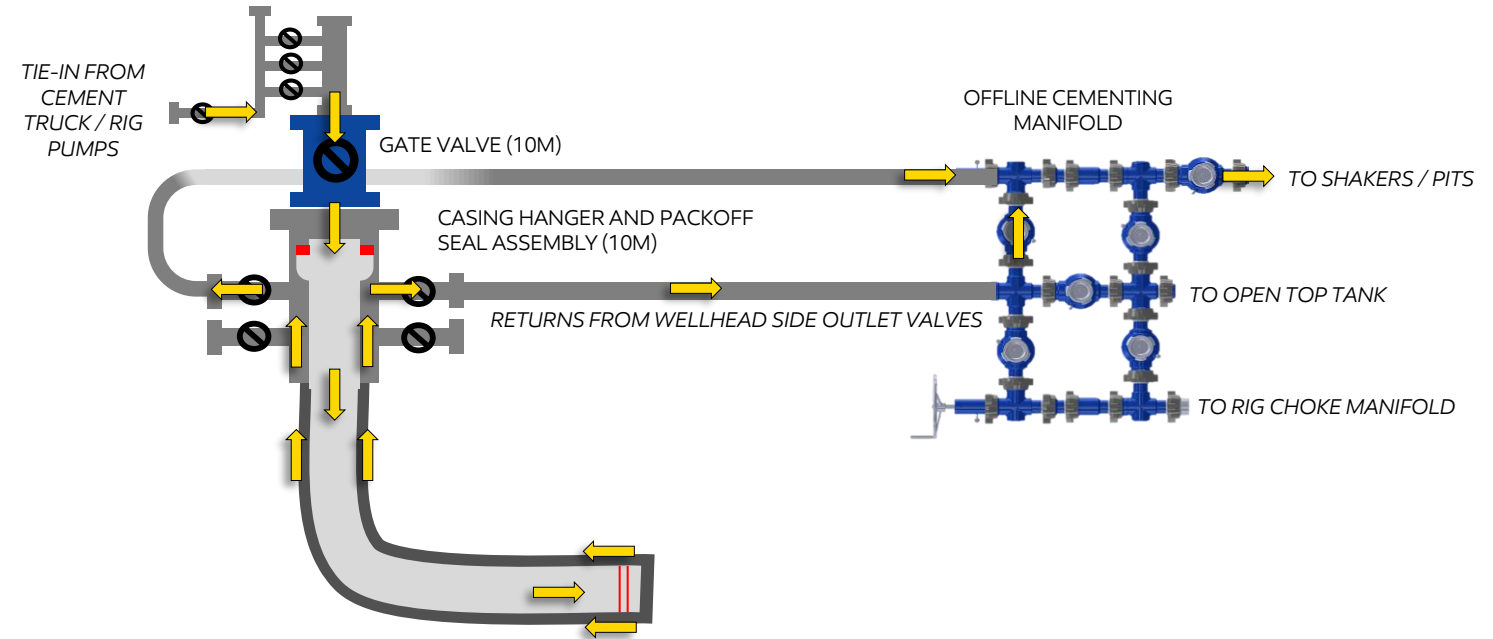
1. **Land production casing hanger** *If casing hanger cannot be landed, cementing will be performed online*
2. Flow check and **confirm the well is static on the casing and annulus.** *If flow is observed, cementing will be performed online*
3. **Lay down landing joint**
4. **Install and test pack-off assembly**
 - a) Pressure test the seal assembly per wellhead provider's procedure to confirm integrity to 250 / 10,000psi
5. **Install back-pressure valve** (BPV, rated to 10,000psi) in hanger per wellhead provider's procedure
6. **Confirm the well is static**
 - a) Flow indicates failure of hydrostatic barrier or mechanical barriers and underbalanced well conditions. *If flow is observed, cementing will be performed online*
 - b) Notify BLM of intent to proceed with nipple down and offline cementing
7. With the well secured and BLM notified; **nipple down BOP and skid rig** to next well on pad
 - a) *Note, verify offline cementing criteria is met before N/D BOP. If unable to meet criteria, cement job will be performed online*
8. **Install and test gate valve**
 - a) Test connection between wellhead adapter seals against hanger neck and ring gasket to 250 / 10,000 psi for 5 minutes
9. **Remove BPV from casing**
10. **Rig up cement head and cementing lines**
11. **Perform production cement job** as per procedure
 - a) Confirm flowpath and valve alignment; default routing to take returns from casing upper side outlet valves → offline cementing manifold → shakers / pits
 - b) *If elevated gas or flow trend observed, reroute returns through choke manifold for ability to hold backpressure to maintain well control and route mud returns to MGS*
12. **Confirm well is static** and double floats are holding after cement job
 - a) *If double floats do not hold, the well can be secured by closing gate valve or cement head or by holding and monitoring pressure at the cement truck while WOC*
13. **Rigdown surface equipment**
 - a) Bleed any remaining line pressure and remove cement head
 - b) Install BPV per wellhead providers recommended procedure
 - c) Close upper casing side outlet valves, break and R/D offline cement lines
 - d) Remove 10M gate valve and wellhead adapter
14. **Secure well**
 - a) Install temporary abandonment cap

Process and Equipment

ONLINE CEMENTING











OFFLINE CEMENTING



KEY DIFFERENCES

1. Rig BOP replaced by gate valve and WH adaptor assembly (10M rated)
2. Addition of offline cementing manifold and high pressure iron to direct fluid returns to rig active system and/or choke manifold
3. Packoff annulus barrier in place and tested prior to cementing operations (10M rated)
4. Cement truck performs cement job displacement (vs rig pumps)

Barrier Comparison

	ONLINE		OFFLINE (PROPOSED)	
	Casing	Annulus	Casing	Annulus
N/D BOP & Skid Rig			1. Hydrostatic 2. Double float valves 3. BPV 	1. Hydrostatic 2. Packoff 
Install Cement Head	1. Hydrostatic 2. Double float valves	1. Hydrostatic 2. BOP (annular, VBR)	1. Hydrostatic 2. Double float valves 3. Gate valve 	1. Hydrostatic 2. Packoff 3. Wellhead Adaptor 
Perform Cement Job	1. Double float valves 2. Cement Head	1. Hydrostatic 2. BOP (annular, VBR)	1. Double float valves 2. Cement Head 3. Gate valve 	1. Hydrostatic 2. Packoff 3. Wellhead Adaptor 
Remove Cement Head	1. Double float valves	1. Hydrostatic 2. BOP (annular, VBR)	1. Double float valves 2. Gate valve 	1. Hydrostatic 2. Packoff 3. Wellhead Adaptor 
N/D & Install TA Cap	1. Double float valves 2. BPV	1. Hydrostatic 2. Packoff	1. Double float valves 2. BPV	1. Hydrostatic 2. Packoff

Well Control Response Plan

The following well control response plan for offline cementing is the same as for online cementing.

1. **Pre-job design:** Cement job designed to define max pump rates to reduce ECD and avoid losses during cement job.
2. **Identify the influx / re-route return flow:** If an influx is observed, the cementing manifold would be re-routed to direct flow to the rig choke manifold (instead of the shakers). If gas was encountered or a kick was detected, continue pumping the job through the rig choke / gas buster while controlling annulus back pressure through the rig choke. Shut the well in once the job is finished (to ensure cement does not set up inside casing). Roles & responsibilities are as follows:
 - Onsite well site representative responsible for monitoring and helping to identify if an influx occurred with support from the rig crews.
 - Rig crew responsible for shutting in the well.
 - Onsite well site representative responsible for operating the rig choke manifold.
3. **Monitor pressure:** If well is shut-in, pressure monitored while cement is building compressive strength.
4. **Flow check:** Once sufficient time is allocated to build compressive strength, perform flow check.
5. **Shut-in:** If annulus pressure / flow is observed, shut-in the well at the casing valves.
6. **Kill the well:** Pump kill weight mud or cement (depending on well conditions) via bradenhead squeeze down the annulus using the rig pumps tied into the cementing manifold or the cement truck.
7. **Flow check:** Flow check the well to confirm static.

ExxonMobil

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 505669

ACKNOWLEDGMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 505669
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	----------------------------------------------------------------------------------------------------------------------------

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Phone: (505) 476-3441

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

CONDITIONS

Action 505669

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 505669
	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.	9/12/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/12/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/24/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/24/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/24/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	9/24/2025