



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

Application for Permit to Drill

APD Package Report

Date Printed: 03/28/2025 09:17 AM

APD ID: 10400095829

Well Status: AAPD

APD Received Date: 11/20/2023 06:51 PM

Well Name: POKER LAKE UNIT 20 BD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 505H

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: 7 file(s)
 - Other Variances: 4 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - New Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 3 file(s)
 - Water source and transportation map: 1 file(s)
 - Well Site Layout Diagram: 2 file(s)
 - Recontouring attachment: 4 file(s)
 - Other SUPO Attachment: 5 file(s)
- PWD Report
- PWD Attachments

-- None

- Bond Report

- Bond Attachments

-- None

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC064894
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☒ Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. POKER LAKE UNIT 20 BD 505H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-56544
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW / 295 FNL / 2573 FWL / LAT 32.10748 / LONG -103.903754 At proposed prod. zone SESW / 50 FSL / 2530 FWL / LAT 32.079201 / LONG -103.903896		10. Field and Pool, or Exploratory WC-015 G-06 S243119C/Bone Spring
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 29/T25S/R30E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 295 feet		12. County or Parish EDDY
16. No of acres in lease		13. State NM
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		20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3172 feet		22. Approximate date work will start* 07/14/2024
		23. Estimated duration 45 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) CASSIE EVANS / Ph: (432) 682-8873	Date 11/20/2023
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CHRISTOPHER WALLS / Ph: (575) 234-2234	Date 03/27/2025
Title Petroleum Engineer		

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

Conditions of approval, if any, are attached.

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



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: NENW / 295 FNL / 2573 FWL / TWSP: 25S / RANGE: 30E / SECTION: 29 / LAT: 32.10748 / LONG: -103.903754 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2530 FWL / TWSP: 25S / RANGE: 30E / SECTION: 29 / LAT: 32.108015 / LONG: -103.903896 (TVD: 9968 feet, MD: 10400 feet)

BHL: SESW / 50 FSL / 2530 FWL / TWSP: 25S / RANGE: 30E / SECTION: 32 / LAT: 32.079201 / LONG: -103.903896 (TVD: 9968 feet, MD: 20817 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 BD Pad A- Extension

Poker Lake Unit 20 BD # 116H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	205'	FSL	450'	FWL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	330	FWL Eddy	

Poker Lake Unit 20 BD # 117H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	205'	FSL	480'	FWL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	770	FWL Eddy	

Poker Lake Unit 20 BD # 118H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	205'	FSL	510'	FWL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	1,210	FWL Eddy	

Poker Lake Unit 20 BD Pad C- Extension

Poker Lake Unit 20 BD # 308H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	105'	FSL	1,978	FEL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	2,325	FEL Eddy	

Poker Lake Unit 20 BD # 309H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	105'	FSL	1,948	FEL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	1,925	FEL Eddy	

Poker Lake Unit 20 BD # 310H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	105'	FSL	1,918	FEL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	1,525	FEL Eddy	

Poker Lake Unit 20 BD Pad E

Poker Lake Unit 20 BD # 501H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	235'	FNL	2,573	FWL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	1,650'	FWL Eddy	

Poker Lake Unit 20 BD # 503H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	265'	FNL	2,573	FWL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	2,090'	FWL Eddy	

Poker Lake Unit 20 BD # 505H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	295'	FNL	2,573	FWL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	2,530'	FWL Eddy	

Poker Lake Unit 20 BD Pad F

Poker Lake Unit 20 BD # 602H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	129'	FNL	1,139	FEL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	1,125'	FEL Eddy	

Poker Lake Unit 20 BD # 604H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	159'	FNL	1,139	FEL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	725'	FEL Eddy	

Poker Lake Unit 20 BD # 606H

Section	Township	Range	N/S Footage	Call	E/W Footage	Call	County
Surface 20	25 South	30 East	189'	FNL	1,139	FEL Eddy	
Bottom Hole 32	25 South	30 East	50'	FSL	330'	FEL Eddy	

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1. GENERAL PROVISIONS

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

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

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

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

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

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

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

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

1.2.2. Fence Requirement

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

1.2.3. Livestock Watering Requirement

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

1.3. NOXIOUS WEEDS

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

1.3.1 African Rue (*Peganum harmala*)

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

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

1.4. LIGHT POLLUTION

1.4.1. Downfacing

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

1.4.2. Shielding

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

1.4.3. Lighting Color

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

2. SPECIAL REQUIREMENTS

WATERSHED

The entire 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 waterflow 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 immediately corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location with wattles (minimum 9" height) surrounding the stockpiled soil to prevent soil loss due to water/wind erosion. The wattles are to be maintained throughout the life of the project. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

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.

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 (marked and unmarked), the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. In ephemeral flow paths, rivers, and streams excess soil is to be compacted, contoured, and level to ground surface, allowing water to flow in its natural state. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (plastic and weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation. Any water erosion that may occur due to construction or during the life of the pipeline system will be immediately corrected within two weeks and proper measures will be taken to prevent erosion. Any spills or leaks from the proposed pipeline must be reported to BLM immediately.

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

2.XXX WILDLIFE

[illegible]

2.5.1 VRM IV

3. CONSTRUCTION REQUIRENMENTS

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.

3.2 TOPSOIL

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.

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, Enclosure Fence Illustrations, Figure 1, Page 18.)

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

3.7 ON LEASE ACCESS ROAD

3.7.1 Road Width

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

3.7.2 Surfacing

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

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

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

3.7.3 Crowning

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

3.7.4 Ditching

Ditching shall be required on both sides of the road.

3.7.5 Turnouts

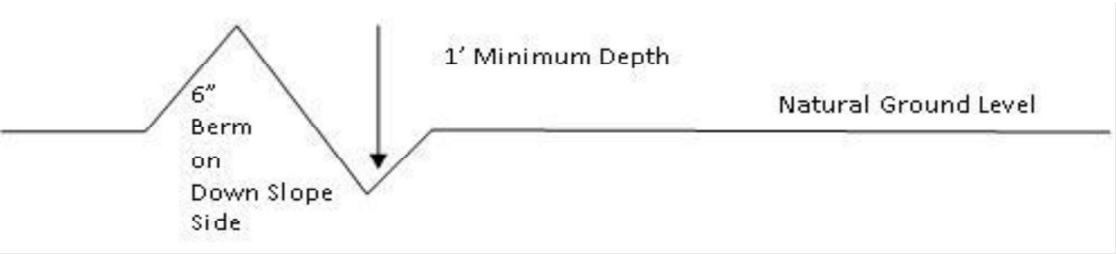
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

Formula for spacing interval of lead-off ditches shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

$$\text{Spacing Interval} = \frac{4 \times \text{road slope} \times 4}{2 \times \text{lead-off ditch berm}} \times 4$$

3.7.7 Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

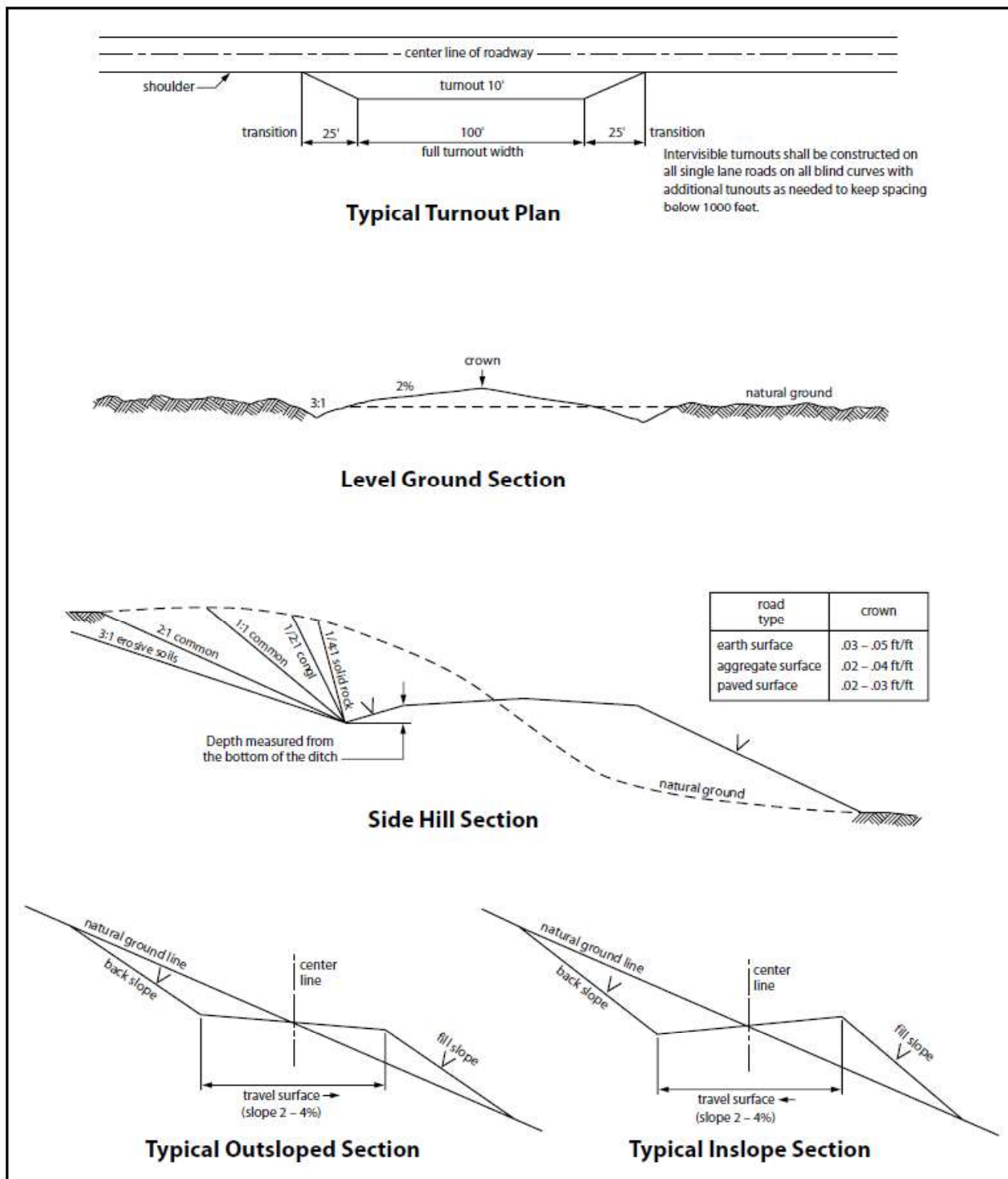


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

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

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.
- c. Holder shall ensure safe passage for livestock and wildlife during construction of the welded pipe on surface prior to laying in the trench every quarter of a mile or at grazing permittees reasonable discretion.

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 or 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," livestock water sources, 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. 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 pipeline.
10. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
11. In those areas where erosion control structures are required to stabilize soil conditions, the operator will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the operator to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
14. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
15. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
16. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

RANGELAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

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

4.5.2 Cattleguards

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

4.5.3 Livestock Watering Requirement

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

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

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps.

5. 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.

6. 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.

7. 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 have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

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

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

*Pounds of pure live seed:

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC064894
LOCATION:	Sec. 29, T.25 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 20 BD 505H
SURFACE HOLE FOOTAGE:	295'/N & 2573'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2530'/W

COA

H ₂ S	☐ No ☒ Yes			
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-Q	☐ Open Annulus ☐ WIPP
Choose an option (including blank option.)				
Cave / Karst	☒ Low	☐ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☒ Primary Squeeze	☐ Cont. Squeeze	☒ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☒ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose	☒ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☐ Four-String	☒ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Corral Canyon** formation. 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 **943** feet (a minimum of **70 feet** **(Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the

- lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6102'**.
 - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

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

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 23%. Additional cement maybe required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 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 3/4/2025
575-234-5998 / zstevens@blm.gov



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

Operator Certification Data Report

03/28/2025

Operator

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

NAME:

Signed on: 11/20/2023

Title:

Street Address:

City:

State:

Zip:

Phone:

Email address:

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data

03/28/2025

APD ID: 10400095829

Submission Date: 11/20/2023

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400095829

Tie to previous NOS? N

Submission Date: 11/20/2023

BLM Office: Carlsbad

User: JEAN COOPER

Title: Regulatory Analyst

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 BD

Well Number: 505H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-015 G-06
S243119C

Pool Name: Bone Spring

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**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:** PLU
20 BD**Number:** E**Well Class:** HORIZONTAL**Number of Legs:** 1**Well Work Type:** Drill**Well Type:** OIL WELL**Describe Well Type:****Well sub-Type:** INFILL**Describe sub-type:****Distance to town:****Distance to nearest well:** 30 FT**Distance to lease line:** 295 FT**Reservoir well spacing assigned acres Measurement:** 320 Acres**Well plat:** POKER_LAKE_UNIT_20BD_505H_C102_20241226122435.pdf**Well work start Date:** 07/14/2024**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	295	FNL	257 3	FW L	25S	30E	29	Aliquot NENW	32.10748	- 103.9037 54	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 64894	317 2	0	0	Y
KOP Leg #1	295	FNL	257 3	FW L	25S	30E	29	Aliquot NENW	32.10748	- 103.9037 54	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 64894	- 623 8	945 0	941 0	Y
PPP Leg #1-1	100	FNL	253 0	FW L	25S	30E	29	Aliquot NENW	32.10801 5	- 103.9038 96	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMLC0 64894	- 679 6	104 00	996 8	Y

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

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	FSL	253 0	FW L	25S	30E	32	Aliquot SESW	32.07933 9	- 103.9038 96	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 679 6	208 00	996 8	Y
BHL Leg #1	50	FSL	253 0	FW L	25S	30E	32	Aliquot SESW	32.07920 1	- 103.9038 96	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 679 6	208 17	996 8	Y

C-102		State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024					
Submit Electronically Via OCD Permitting				Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled					
WELL LOCATION INFORMATION									
API Number 30-015- 56544		Pool Code 97975 13354		Pool Name WC 015 G 06 S243119C, Bone Spring Corral Canyon, Bone Spring, South					
Property Code 325596		Property Name POKER LAKE UNIT 20 BD		Well Number 503H 505H					
ORGID No. 373075		Operator Name XTO PERMIAN OPERATING, LLC.		Ground Level Elevation 3,172'					
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal			Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal						
Surface Location									
UL C	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 295' FNL	Ft. from E/W 2,573' FWL	Latitude 32.107480	Longitude -103.903754	County EDDY
Bottom Hole Location									
UL N	Section 32	Township 25 S	Range 30 E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,530' FWL	Latitude 32.079201	Longitude -103.903896	County EDDY
Dedicated Acres 320		Infill or Defining Well INFILL		Defining Well API		Overlapping Spacing Unit (Y/N) N		Consolidation Code U	
Order Numbers.				Well setbacks are under Common Ownership: ☒ Yes ☐ No					
Kick Off Point (KOP)									
UL C	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 295' FNL	Ft. from E/W 2,573' FWL	Latitude 32.107480	Longitude -103.903754	County EDDY
First Take Point (FTP)									
UL C	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 2,530' FWL	Latitude 32.108015	Longitude -103.903896	County EDDY
Last Take Point (LTP)									
UL N	Section 32	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,530' FWL	Latitude 32.079339	Longitude -103.903896	County EDDY
Unitized Area or Area of Uniform Interest NMNM-071016X		Spacing Unit Type ☒ Horizontal ☐ Vertical			Ground Floor Elevation: 3,172'				
OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS				
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. 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. <u>Samantha Weis</u> 3/13/2025					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, 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. <u>Tim C. Pappas</u> 12 Feb 2025 TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209				
Signature Samantha Weis					Signature and Seal of Professional Surveyor				
Printed Name samantha.r.bartnik@exxonmobil.com					Certificate Number TIM C. PAPPAS 21209		Date of Survey 11/9/2023		
Email Address									
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.									
 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 DATE: 2-12-2025 DRAWN BY: LM CHECKED BY: CH FIELD CREW: IR PROJECT NO: 2023040216 SCALE: SHEET: 1 OF 2 REVISION:									

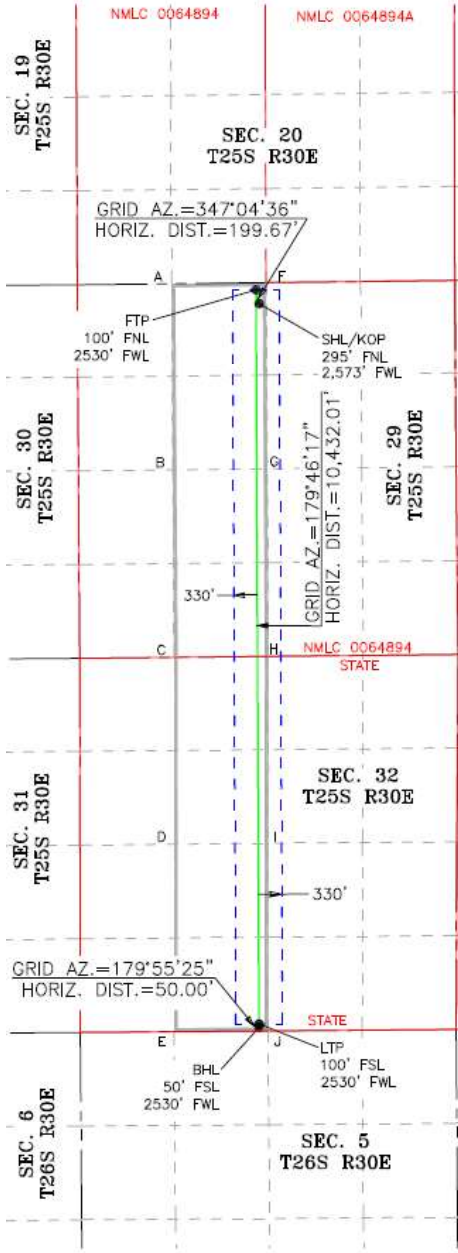
ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

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

LEGEND

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



SHL/KOP (NAD83 NME)		LTP (NAD83 NME)	
Y =	403,102.65	Y =	392,865.34
X =	674,346.89	X =	674,343.87
LAT. =	32.107480 °N	LAT. =	32.079339 °N
LONG. =	103.903754 °W	LONG. =	103.903896 °W
FTP (NAD83 NME)		BHL (NAD83 NME)	
Y =	403,297.27	Y =	392,815.34
X =	674,302.24	X =	674,343.94
LAT. =	32.108015 °N	LAT. =	32.079201 °N
LONG. =	103.903896 °W	LONG. =	103.903896 °W
CORNER COORDINATES (NAD83 NME)			
A - Y =	403,383.20 N	X =	673,108.08 E
B - Y =	400,726.19 N	X =	673,125.57 E
C - Y =	398,069.20 N	X =	673,143.06 E
D - Y =	395,412.10 N	X =	673,143.25 E
E - Y =	392,755.63 N	X =	673,143.69 E
F - Y =	403,398.95 N	X =	674,444.45 E
G - Y =	400,741.13 N	X =	674,461.55 E
H - Y =	398,083.35 N	X =	674,478.65 E
I - Y =	395,424.50 N	X =	674,476.00 E
J - Y =	392,766.38 N	X =	674,473.35 E
SHL/KOP (NAD27 NME)		LTP (NAD27 NME)	
Y =	403,044.33	Y =	392,807.30
X =	633,161.98	X =	633,158.64
LAT. =	32.107355 °N	LAT. =	32.079214 °N
LONG. =	103.903271 °W	LONG. =	103.903414 °W
FTP (NAD27 NME)		BHL (NAD27 NME)	
Y =	403,238.94	Y =	392,757.30
X =	633,117.33	X =	633,158.70
LAT. =	32.107890 °N	LAT. =	32.079076 °N
LONG. =	103.903413 °W	LONG. =	103.903414 °W
CORNER COORDINATES (NAD27 NME)			
A - Y =	403,324.88 N	X =	631,923.20 E
B - Y =	400,667.93 N	X =	631,940.61 E
C - Y =	398,011.01 N	X =	631,958.02 E
D - Y =	395,353.98 N	X =	631,958.12 E
E - Y =	392,697.59 N	X =	631,958.48 E
F - Y =	403,340.62 N	X =	633,259.54 E
G - Y =	400,682.87 N	X =	633,276.56 E
H - Y =	398,025.17 N	X =	633,293.58 E
I - Y =	395,366.39 N	X =	633,290.84 E
J - Y =	392,708.35 N	X =	633,288.11 E



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DATE: 2-12-2025 PROJECT NO: 2023040216
DRAWN BY: LM SCALE:
CHECKED BY: CH SHEET: 2 OF 2
FIELD CREW: IR REVISION:



Drilling Plan Data Report

03/28/2025

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

APD ID: 10400095829

Submission Date: 11/20/2023

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

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
15298444	QUATERNARY	3172	0	0	ALLUVIUM	USEABLE WATER	N
15298445	RUSTLER	2509	663	663	ANHYDRITE	USEABLE WATER	N
15298446	SALADO	2129	1043	1043	SALT	NONE	N
15298447	BASE OF SALT	-234	3406	3406	SALT	NONE	N
15298448	DELAWARE	-420	3592	3592	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
15298443	BRUSHY CANYON	-2930	6102	6102	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
15298449	BONE SPRING	-4244	7416	7416	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
15298450	BONE SPRING 1ST	-5173	8345	8345	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
15298451	BONE SPRING 2ND	-6025	9197	9197	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
15298442	BONE SPRING 3RD	-6696	9868	9868	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9968

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

Requesting Variance? YES

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

on each of the wells. 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. 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. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

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

Choke Diagram Attachment:

PLU_20_BD_10MCM_20250106102926.pdf

BOP Diagram Attachment:

PLU_20_BD_5M10MBOP_20250106102948.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	943	0	943	3172	2229	943	J-55	40	BUTT	6.02	1.49	DRY	16.7	DRY	16.7
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	9300	0	9260	3244	-6088	9300	L-80	29.7	FJ	2.15	1.83	DRY	2.58	DRY	2.58
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	20817	0	9968	3244	-6796	20817	P-110	23	OTHER - Freedom HTQ/Talon HTQ	2.44	1.21	DRY	6.12	DRY	6.12

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Casing Attachments****Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):****Casing ID:** 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):****Casing ID:** 3 **String** PRODUCTION**Inspection Document:****Spec Document:**

Freedom_Semi_Premium_5.5000_23.0000_0.4150__P110_RY_20250106103239.pdf

Talon__Semiflush_HTQ_RD_5.5000_23.0000_0.4150__P110_RY_20250106103239.pdf

Tapered String Spec:

PLU_20_BD_505H_Csg_20241226124303.pdf

Casing Design Assumptions and Worksheet(s):

PLU_20_BD_505H_Csg_20241226124331.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	943	210	1.87	12.9	392.7	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	943	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6102	290	1.35	14.8	391.5	100	Class C	NA
INTERMEDIATE	Tail		6102	9300	690	1.33	14.8	917.7	100	Class C	NA
PRODUCTION	Lead		9000	9500	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		9500	20817	810	1.51	13.2	1223.1	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
943	3592	SALT SATURATED	10.5	11							

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

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
3592	9300	OTHER : BDE/OBM	9	9.5							
0	943	WATER-BASED MUD	8.7	9.2							
9300	2081 7	OIL-BASED MUD	11.5	12							

Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

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: 6220

Anticipated Surface Pressure: 4027

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_20240809102108.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Section 8 - Other Information****Proposed horizontal/directional/multi-lateral plan submission:**

PLU_20_BD_505H_DD_20231114145552.pdf

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

PLU_20_BD_505H_Cmt_20240421203645.pdf

PLU_20_BD_MBS_20240809103152.pdf

PLU_20_BD_H2S_DiaE_20241226125505.pdf

PLU_20_BD_H2S_DiaA_20241226125505.pdf

PLU_20_BD_H2S_DiaF_20241226125505.pdf

PLU_20_BD_H2S_DiaC_20241226125506.pdf

NGMPForm__PLU_20_BD_20250106054420.pdf

Other Variance attachment:

Spudder_Rig_Request_20240809103317.pdf

BOP_Break_Test_Variance_20240809103328.pdf

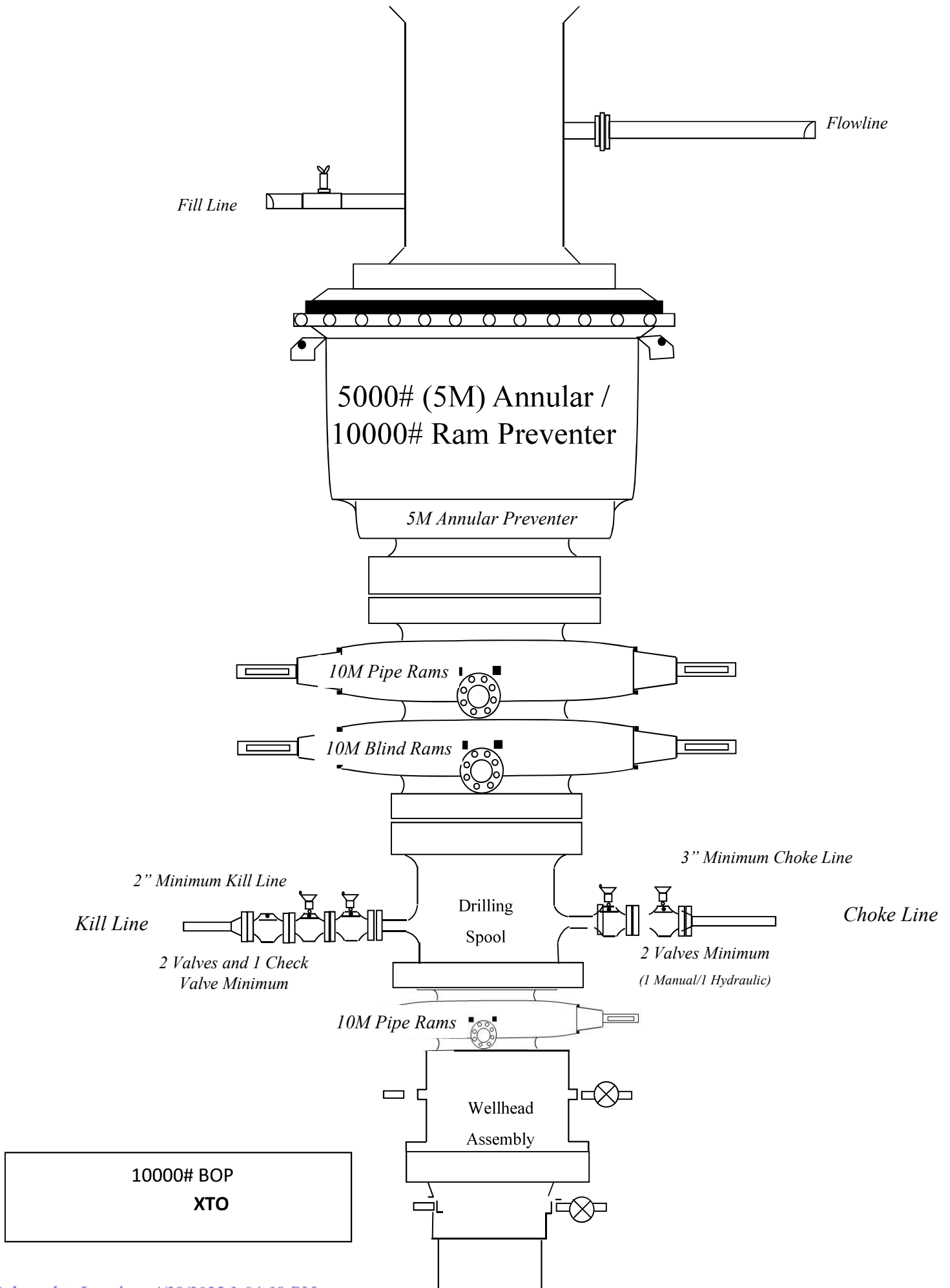
Offline_Cement_Variance_Surf___Interm_Csg_20240809103339.pdf

Updated_Flex_Hose_20240809103309.pdf



Drilling Operations Choke Manifold 10M Service

Released to Imaging: 4/28/2025 3:04:19 PM





U. S. Steel Tubular Products

5.500" 23.00lb/ft (0.415" Wall) P110 RY USS-TALON HTQ™ RD

1/4/2024 11:09:09 AM

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		--
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.415	--	in.	--
Inside Diameter	4.670	4.670	in.	--
Standard Drift	4.545	4.545	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	23.00	--	lb/ft	--
Plain End Weight	22.56	--	lb/ft	--
SECTION AREA	Pipe	USS-TALON HTQ™ RD		--
Critical Area	6.630	6.425	sq. in.	--
Joint Efficiency	--	96.9	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		--
Minimum Collapse Pressure	14,540	14,540	psi	--
Minimum Internal Yield Pressure	14,520	14,520	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	707,000	lb	--
Reference Length	--	20,490	ft	[5]
Maximum Uniaxial Bend Rating	--	88.9	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	20,800	ft-lb	[4]
Maximum Make-Up Torque	--	23,800	ft-lb	[4]
Maximum Operating Torque	--	39,800	ft-lb	[4]

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2.

Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3.

Uniaxial bend rating shown is structural only.
4.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5.

Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6.

Coupling must meet minimum mechanical properties of the pipe.

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com



U. S. Steel Tubular Products
5.500" 23.00lb/ft (0.415" Wall) P110 RY USS-FREEDOM HTQ®

11/8/2023 1:09:13 PM



MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		--
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	Pipe	USS-FREEDOM HTQ®		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.415	--	in.	--
Inside Diameter	4.670	4.670	in.	--
Standard Drift	4.545	4.545	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	23.00	--	lb/ft	--
Plain End Weight	22.56	--	lb/ft	--
SECTION AREA	Pipe	USS-FREEDOM HTQ®		--
Critical Area	6.630	6.630	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	Pipe	USS-FREEDOM HTQ®		--
Minimum Collapse Pressure	14,540	14,540	psi	--
Minimum Internal Yield Pressure	14,520	14,520	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	729,000	lb	--
Compression Rating	--	729,000	lb	--
Reference Length [4]	--	21,138	ft	--
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®		--
Make-Up Loss	--	4.13	in.	--
Minimum Make-Up Torque [3]	--	15,000	ft-lb	--
Maximum Make-Up Torque [3]	--	21,000	ft-lb	--
Maximum Operating Torque[3]	--	32,500	ft-lb	--

UNCONTROLLED

Notes

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

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www.usstubular.com

Casing Assumptions

Casing Design									
Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 943'	9.625	40	J-55	BTC	New	1.49	6.02	16.70
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.51	2.65	2.02
8.75	4000' – 9300'	7.625	29.7	HC L-80	Flush Joint	New	1.83	2.15	2.58
6.75	0' – 9200'	5.5	23	RY P-110	Freedom HTQ	New	1.21	2.64	2.26
6.75	9200' - 9700'	5.5	23	RY P-110	Talon HTQ	New	1.21	2.51	5.48
6.75	9700' - 20817'	5.5	23	RY P-110	Talon HTQ	New	1.21	2.44	6.12

Casing Assumptions

Casing Design									
Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 943'	9.625	40	J-55	BTC	New	1.49	6.02	16.70
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.51	2.65	2.02
8.75	4000' – 9300'	7.625	29.7	HC L-80	Flush Joint	New	1.83	2.15	2.58
6.75	0' – 9200'	5.5	23	RY P-110	Freedom HTQ	New	1.21	2.64	2.26
6.75	9200' - 9700'	5.5	23	RY P-110	Talon HTQ	New	1.21	2.51	5.48
6.75	9700' - 20817'	5.5	23	RY P-110	Talon HTQ	New	1.21	2.44	6.12



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

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

575-887-7329

XTO PERSONNEL:

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

SHERIFF DEPARTMENTS:

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

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

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

HOSPITALS:

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

AGENT NOTIFICATIONS:**For Lea County:**

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

For Eddy County:

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



XTO Energy

EDDY COUNTY, NM (NAD-27 / NME)

POKER LAKE UNIT 20 BD

505H

Wellbore #1

Plan: PERMIT

Standard Planning Report

06 June, 2023



Project: EDDY COUNTY, NM (NAD-27 / NME)
 Site: POKER LAKE UNIT 20 BD
 Well: 505H
 Wellbore: Wellbore #1
 Design: PERMIT

PROJECT DETAILS: EDDY COUNTY, NM (NAD-27 / NME)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: 505H

	+N/-S	+E/-W	Northing	East	Latitude	Longitude
Rig Name:				TBD		
GL @ 3172.00usft (TBD)				3172.00		
Ground Level:				633161.98	32.1073548	-103.9032711

SECTION DETAILS

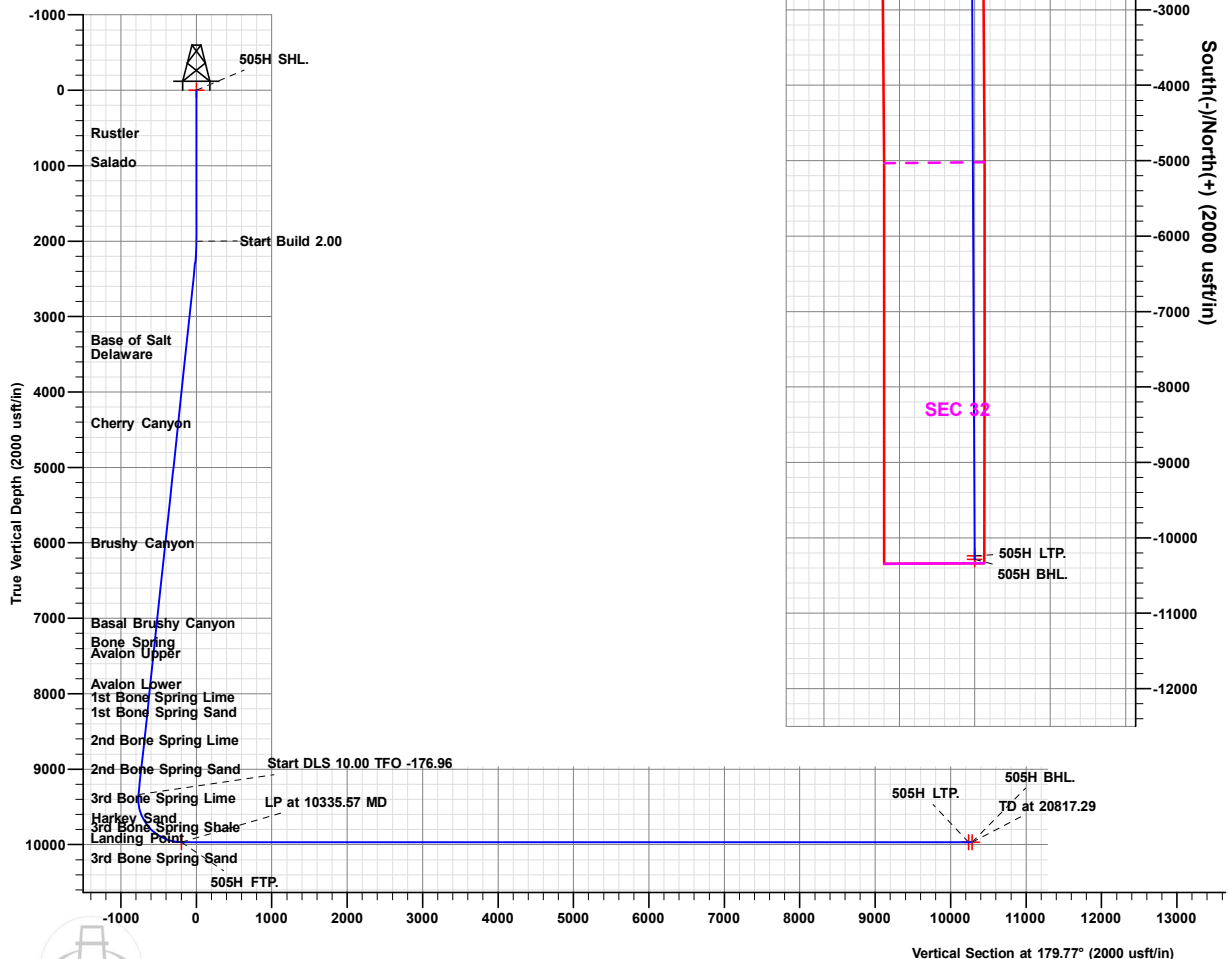
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2304.23	6.08	356.75	2303.65	16.11	-0.91	2.00	356.75	-16.12	
4	3374.81	6.08	356.75	9334.41	764.36	-43.34	0.00	0.00	-764.53	
5	10335.57	90.00	179.77	9968.00	194.61	-44.65	10.00	-176.96	-194.79	505H FTP
6	20767.29	90.00	179.77	9968.00	-10237.03	-3.48	0.00	0.00	10236.93	505H LTP
7	20817.29	90.00	179.77	9968.00	-10287.03	-3.28	0.00	0.00	10286.93	505H BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	East	Latitude	Longitude
505H SHL	0.00	0.00	0.00	403044.33	633161.98	32.1073548	-103.9032711
505H BHL	9968.00	-10287.03	-3.28	392757.30	633158.70	32.0790761	-103.9034142
505H FTP	9968.00	194.61	-44.65	403238.94	633117.33	32.1078903	-103.9034128
505H LTP	9968.00	-10237.03	-3.34	392807.30	633158.64	32.0792135	-103.9034137

FORMATION TOP DETAILS

TVDPath	Formation
663.00	Rustler
1043.00	Salado
3406.00	Base of Salt
3592.00	Delaware
4508.00	Cherry Canyon
6102.00	Brushy Canyon
7157.00	Basal Brushy Canyon
7416.00	Bone Spring
7559.00	Avalon Upper
7962.00	Avalon Lower
8142.00	1st Bone Spring Lime
8345.00	1st Bone Spring Sand
8715.00	2nd Bone Spring Lime
9197.00	2nd Bone Spring Sand
9482.00	3rd Bone Spring Lime
9832.00	Harkey Sand
9868.00	3rd Bone Spring Shale
9968.00	Landing Point



Vertical Section at 179.77° (2000 usft/in)

Plan: PERMIT (505H/Wellbore #1)

Created By: Matthew May Date: 11:06, June 06 2023

C-102		State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION				Revised July 9, 2024			
Submit Electronically Via OCD Permitting						Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled			
WELL LOCATION INFORMATION									
API Number 30-015-		Pool Code 97975		Pool Name WC-015 G-06 S243119C; Bone Spring					
Property Code		Property Name POKER LAKE UNIT 20 BD				Well Number 503H			
ORGID No. 373075		Operator Name XTO PERMIAN OPERATING, LLC.				Ground Level Elevation 3,172'			
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal				Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal					
Surface Location									
UL C	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 295' FNL	Ft. from E/W 2,573' FWL	Latitude 32.107480	Longitude -103.903754	County EDDY
Bottom Hole Location									
UL N	Section 32	Township 25 S	Range 30 E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,530' FWL	Latitude 32.079201	Longitude -103.903896	County EDDY
Dedicated Acres 320		Infill or Defining Well INFILL		Defining Well API		Overlapping Spacing Unit (Y/N) N		Consolidation Code U	
Order Numbers.				Well setbacks are under Common Ownership: ☒ Yes ☐ No					
Kick Off Point (KOP)									
UL C	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 295' FNL	Ft. from E/W 2,573' FWL	Latitude 32.107480	Longitude -103.903754	County EDDY
First Take Point (FTP)									
UL C	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 2,530' FWL	Latitude 32.108015	Longitude -103.903896	County EDDY
Last Take Point (LTP)									
UL N	Section 32	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,530' FWL	Latitude 32.079339	Longitude -103.903896	County EDDY
Unitized Area or Area of Uniform Interest NMNM-071016X		Spacing Unit Type ☒ Horizontal ☐ Vertical				Ground Floor Elevation: 3,172'			
OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS				
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. 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. <u>Samantha Weis</u> 3/13/2025					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, 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. <u>[Signature]</u> 12 Feb 2025 TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209				
Signature					Signature and Seal of Professional Surveyor				
Samantha Weis									
Printed Name					Certificate Number		Date of Survey		
samantha.r.bartnik@exxonmobil.com					TIM C. PAPPAS 21209		11/9/2023		
Email Address									
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.									



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

DATED: 2-12-2025
DRAWN BY: LM
CHECKED BY: CH
FIELD CREW: IR

PROJECT NO: 20230402
SCALE:
SHEET:
REVISION:

1 OF 1

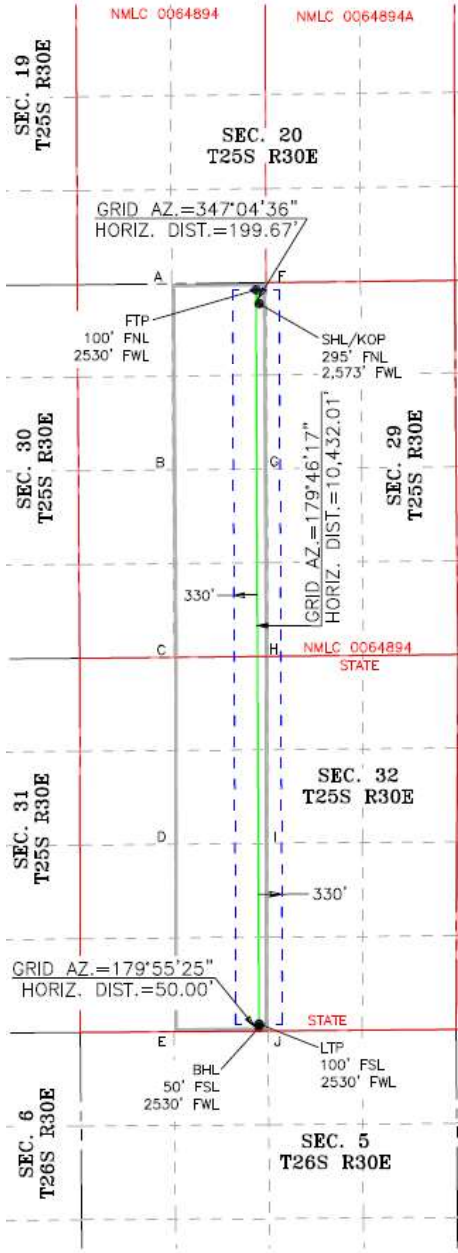
ACREAGE DEDICATION PLATS

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
- 330' BUFFER
- DEDICATED ACREAGE BOX



SHL/KOP (NAD83 NME)		LTP (NAD83 NME)	
Y =	403,102.65	Y =	392,865.34
X =	674,346.89	X =	674,343.87
LAT. =	32.107480 °N	LAT. =	32.079339 °N
LONG. =	103.903754 °W	LONG. =	103.903896 °W
FTP (NAD83 NME)		BHL (NAD83 NME)	
Y =	403,297.27	Y =	392,815.34
X =	674,302.24	X =	674,343.94
LAT. =	32.108015 °N	LAT. =	32.079201 °N
LONG. =	103.903896 °W	LONG. =	103.903896 °W
CORNER COORDINATES (NAD83 NME)			
A - Y =	403,383.20 N	X =	673,108.08 E
B - Y =	400,726.19 N	X =	673,125.57 E
C - Y =	398,069.20 N	X =	673,143.06 E
D - Y =	395,412.10 N	X =	673,143.25 E
E - Y =	392,755.63 N	X =	673,143.69 E
F - Y =	403,398.95 N	X =	674,444.45 E
G - Y =	400,741.13 N	X =	674,461.55 E
H - Y =	398,083.35 N	X =	674,478.65 E
I - Y =	395,424.50 N	X =	674,476.00 E
J - Y =	392,766.38 N	X =	674,473.35 E
SHL/KOP (NAD27 NME)		LTP (NAD27 NME)	
Y =	403,044.33	Y =	392,807.30
X =	633,161.98	X =	633,158.64
LAT. =	32.107355 °N	LAT. =	32.079214 °N
LONG. =	103.903271 °W	LONG. =	103.903414 °W
FTP (NAD27 NME)		BHL (NAD27 NME)	
Y =	403,238.94	Y =	392,757.30
X =	633,117.33	X =	633,158.70
LAT. =	32.107890 °N	LAT. =	32.079076 °N
LONG. =	103.903413 °W	LONG. =	103.903414 °W
CORNER COORDINATES (NAD27 NME)			
A - Y =	403,324.88 N	X =	631,923.20 E
B - Y =	400,667.93 N	X =	631,940.61 E
C - Y =	398,011.01 N	X =	631,958.02 E
D - Y =	395,353.98 N	X =	631,958.12 E
E - Y =	392,697.59 N	X =	631,958.48 E
F - Y =	403,340.62 N	X =	633,259.54 E
G - Y =	400,682.87 N	X =	633,276.56 E
H - Y =	398,025.17 N	X =	633,293.58 E
I - Y =	395,366.39 N	X =	633,290.84 E
J - Y =	392,708.35 N	X =	633,288.11 E



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DATE: 2-12-2025 PROJECT NO: 2023040216
DRAWN BY: LM SCALE:
CHECKED BY: CH SHEET: 2 OF 2
FIELD CREW: IR REVISION:



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project	EDDY COUNTY, NM (NAD-27 / NME)		
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 BD			
Site Position:		Northing:	403,647.80 usft	Latitude:	32.1090340
From:	Map	Easting:	631,305.40 usft	Longitude:	-103.9092593
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.23

Well	505H					
Well Position	+N/-S	-603.47 usft	Northing:	403,044.33 usft	Latitude:	32.1073549
	+E/-W	1,856.58 usft	Easting:	633,161.98 usft	Longitude:	-103.9032711
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,172.00 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	06/06/23	6.46	59.68	47,187

Design	PERMIT				
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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	179.77

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,304.23	6.08	356.75	2,303.65	16.11	-0.91	2.00	2.00	0.00	356.75	
9,374.81	6.08	356.75	9,334.41	764.36	-43.34	0.00	0.00	0.00	0.00	
10,335.57	90.00	179.77	9,968.00	194.61	-44.65	10.00	8.73	-18.42	-176.96	505H FTP.
20,767.29	90.00	179.77	9,968.00	-10,237.03	-3.48	0.00	0.00	0.00	0.00	505H LTP.
20,817.29	90.00	179.77	9,968.00	-10,287.03	-3.28	0.00	0.00	0.00	0.00	505H BHL.



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
505H SHL.									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
663.00	0.00	0.00	663.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,043.00	0.00	0.00	1,043.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	356.75	2,099.98	1.74	-0.10	-1.74	2.00	2.00	0.00
2,200.00	4.00	356.75	2,199.84	6.97	-0.40	-6.97	2.00	2.00	0.00
2,304.23	6.08	356.75	2,303.65	16.11	-0.91	-16.12	2.00	2.00	0.00
2,400.00	6.08	356.75	2,398.89	26.25	-1.49	-26.25	0.00	0.00	0.00
2,500.00	6.08	356.75	2,498.33	36.83	-2.09	-36.84	0.00	0.00	0.00
2,600.00	6.08	356.75	2,597.76	47.41	-2.69	-47.42	0.00	0.00	0.00
2,700.00	6.08	356.75	2,697.20	58.00	-3.29	-58.01	0.00	0.00	0.00
2,800.00	6.08	356.75	2,796.64	68.58	-3.89	-68.59	0.00	0.00	0.00
2,900.00	6.08	356.75	2,896.07	79.16	-4.49	-79.18	0.00	0.00	0.00
3,000.00	6.08	356.75	2,995.51	89.74	-5.09	-89.76	0.00	0.00	0.00
3,100.00	6.08	356.75	3,094.95	100.33	-5.69	-100.35	0.00	0.00	0.00
3,200.00	6.08	356.75	3,194.38	110.91	-6.29	-110.93	0.00	0.00	0.00
3,300.00	6.08	356.75	3,293.82	121.49	-6.89	-121.52	0.00	0.00	0.00
3,400.00	6.08	356.75	3,393.26	132.07	-7.49	-132.10	0.00	0.00	0.00
3,412.82	6.08	356.75	3,406.00	133.43	-7.57	-133.46	0.00	0.00	0.00
Base of Salt									
3,500.00	6.08	356.75	3,492.69	142.66	-8.09	-142.69	0.00	0.00	0.00
3,599.87	6.08	356.75	3,592.00	153.22	-8.69	-153.26	0.00	0.00	0.00
Delaware									
3,600.00	6.08	356.75	3,592.13	153.24	-8.69	-153.27	0.00	0.00	0.00
3,700.00	6.08	356.75	3,691.57	163.82	-9.29	-163.86	0.00	0.00	0.00
3,800.00	6.08	356.75	3,791.00	174.40	-9.89	-174.44	0.00	0.00	0.00
3,900.00	6.08	356.75	3,890.44	184.99	-10.49	-185.03	0.00	0.00	0.00
4,000.00	6.08	356.75	3,989.88	195.57	-11.09	-195.61	0.00	0.00	0.00
4,100.00	6.08	356.75	4,089.31	206.15	-11.69	-206.20	0.00	0.00	0.00
4,200.00	6.08	356.75	4,188.75	216.73	-12.29	-216.78	0.00	0.00	0.00
4,300.00	6.08	356.75	4,288.19	227.32	-12.89	-227.37	0.00	0.00	0.00
4,400.00	6.08	356.75	4,387.62	237.90	-13.49	-237.95	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
4,500.00	6.08	356.75	4,487.06	248.48	-14.09	-248.54	0.00	0.00	0.00
4,521.06	6.08	356.75	4,508.00	250.71	-14.22	-250.76	0.00	0.00	0.00
Cherry Canyon									
4,600.00	6.08	356.75	4,586.50	259.06	-14.69	-259.12	0.00	0.00	0.00
4,700.00	6.08	356.75	4,685.93	269.65	-15.29	-269.71	0.00	0.00	0.00
4,800.00	6.08	356.75	4,785.37	280.23	-15.89	-280.29	0.00	0.00	0.00
4,900.00	6.08	356.75	4,884.81	290.81	-16.49	-290.87	0.00	0.00	0.00
5,000.00	6.08	356.75	4,984.24	301.39	-17.09	-301.46	0.00	0.00	0.00
5,100.00	6.08	356.75	5,083.68	311.98	-17.69	-312.04	0.00	0.00	0.00
5,200.00	6.08	356.75	5,183.12	322.56	-18.29	-322.63	0.00	0.00	0.00
5,300.00	6.08	356.75	5,282.55	333.14	-18.89	-333.21	0.00	0.00	0.00
5,400.00	6.08	356.75	5,381.99	343.72	-19.49	-343.80	0.00	0.00	0.00
5,500.00	6.08	356.75	5,481.43	354.31	-20.09	-354.38	0.00	0.00	0.00
5,600.00	6.08	356.75	5,580.86	364.89	-20.69	-364.97	0.00	0.00	0.00
5,700.00	6.08	356.75	5,680.30	375.47	-21.29	-375.55	0.00	0.00	0.00
5,800.00	6.08	356.75	5,779.74	386.05	-21.89	-386.14	0.00	0.00	0.00
5,900.00	6.08	356.75	5,879.17	396.64	-22.49	-396.72	0.00	0.00	0.00
6,000.00	6.08	356.75	5,978.61	407.22	-23.09	-407.31	0.00	0.00	0.00
6,100.00	6.08	356.75	6,078.05	417.80	-23.69	-417.89	0.00	0.00	0.00
6,124.09	6.08	356.75	6,102.00	420.35	-23.84	-420.44	0.00	0.00	0.00
Brushy Canyon									
6,200.00	6.08	356.75	6,177.48	428.38	-24.29	-428.48	0.00	0.00	0.00
6,300.00	6.08	356.75	6,276.92	438.97	-24.89	-439.06	0.00	0.00	0.00
6,400.00	6.08	356.75	6,376.36	449.55	-25.49	-449.65	0.00	0.00	0.00
6,500.00	6.08	356.75	6,475.79	460.13	-26.09	-460.23	0.00	0.00	0.00
6,600.00	6.08	356.75	6,575.23	470.71	-26.69	-470.82	0.00	0.00	0.00
6,700.00	6.08	356.75	6,674.67	481.30	-27.29	-481.40	0.00	0.00	0.00
6,800.00	6.08	356.75	6,774.10	491.88	-27.89	-491.99	0.00	0.00	0.00
6,900.00	6.08	356.75	6,873.54	502.46	-28.49	-502.57	0.00	0.00	0.00
7,000.00	6.08	356.75	6,972.98	513.04	-29.09	-513.16	0.00	0.00	0.00
7,100.00	6.08	356.75	7,072.41	523.63	-29.69	-523.74	0.00	0.00	0.00
7,185.07	6.08	356.75	7,157.00	532.63	-30.20	-532.75	0.00	0.00	0.00
Basal Brushy Canyon									
7,200.00	6.08	356.75	7,171.85	534.21	-30.29	-534.33	0.00	0.00	0.00
7,300.00	6.08	356.75	7,271.29	544.79	-30.89	-544.91	0.00	0.00	0.00
7,400.00	6.08	356.75	7,370.72	555.37	-31.49	-555.50	0.00	0.00	0.00
7,445.53	6.08	356.75	7,416.00	560.19	-31.76	-560.32	0.00	0.00	0.00
Bone Spring									
7,500.00	6.08	356.75	7,470.16	565.96	-32.09	-566.08	0.00	0.00	0.00
7,589.34	6.08	356.75	7,559.00	575.41	-32.63	-575.54	0.00	0.00	0.00
Avalon Upper									
7,600.00	6.08	356.75	7,569.60	576.54	-32.69	-576.67	0.00	0.00	0.00
7,700.00	6.08	356.75	7,669.03	587.12	-33.29	-587.25	0.00	0.00	0.00
7,800.00	6.08	356.75	7,768.47	597.70	-33.89	-597.84	0.00	0.00	0.00
7,900.00	6.08	356.75	7,867.91	608.29	-34.49	-608.42	0.00	0.00	0.00
7,994.63	6.08	356.75	7,962.00	618.30	-35.06	-618.44	0.00	0.00	0.00
Avalon Lower									
8,000.00	6.08	356.75	7,967.34	618.87	-35.09	-619.01	0.00	0.00	0.00
8,100.00	6.08	356.75	8,066.78	629.45	-35.69	-629.59	0.00	0.00	0.00
8,175.65	6.08	356.75	8,142.00	637.46	-36.15	-637.60	0.00	0.00	0.00
1st Bone Spring Lime									
8,200.00	6.08	356.75	8,166.22	640.03	-36.29	-640.17	0.00	0.00	0.00
8,300.00	6.08	356.75	8,265.65	650.62	-36.89	-650.76	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
8,379.80	6.08	356.75	8,345.00	659.06	-37.37	-659.21	0.00	0.00	0.00
1st Bone Spring Sand									
8,400.00	6.08	356.75	8,365.09	661.20	-37.49	-661.34	0.00	0.00	0.00
8,500.00	6.08	356.75	8,464.53	671.78	-38.09	-671.93	0.00	0.00	0.00
8,600.00	6.08	356.75	8,563.96	682.36	-38.69	-682.51	0.00	0.00	0.00
8,700.00	6.08	356.75	8,663.40	692.95	-39.29	-693.10	0.00	0.00	0.00
8,751.89	6.08	356.75	8,715.00	698.44	-39.60	-698.59	0.00	0.00	0.00
2nd Bone Spring Lime									
8,800.00	6.08	356.75	8,762.84	703.53	-39.89	-703.68	0.00	0.00	0.00
8,900.00	6.08	356.75	8,862.27	714.11	-40.49	-714.27	0.00	0.00	0.00
9,000.00	6.08	356.75	8,961.71	724.69	-41.09	-724.85	0.00	0.00	0.00
9,100.00	6.08	356.75	9,061.15	735.28	-41.69	-735.44	0.00	0.00	0.00
9,200.00	6.08	356.75	9,160.58	745.86	-42.29	-746.02	0.00	0.00	0.00
9,236.62	6.08	356.75	9,197.00	749.74	-42.51	-749.90	0.00	0.00	0.00
2nd Bone Spring Sand									
9,300.00	6.08	356.75	9,260.02	756.44	-42.89	-756.61	0.00	0.00	0.00
9,374.81	6.08	356.75	9,334.41	764.36	-43.34	-764.53	0.00	0.00	0.00
9,400.00	3.57	354.61	9,359.51	766.47	-43.49	-766.64	10.00	-9.98	-8.50
9,450.00	1.48	192.34	9,409.48	767.39	-43.77	-767.56	10.00	-4.19	-324.55
9,500.00	6.45	182.62	9,459.35	763.96	-44.04	-764.13	10.00	9.95	-19.43
9,522.86	8.73	181.87	9,482.00	760.94	-44.16	-761.11	10.00	9.99	-3.29
3rd Bone Spring Lime									
9,550.00	11.45	181.36	9,508.72	756.18	-44.29	-756.36	10.00	9.99	-1.86
9,600.00	16.45	180.86	9,557.23	744.14	-44.51	-744.31	10.00	10.00	-1.00
9,650.00	21.45	180.59	9,604.51	727.91	-44.71	-728.09	10.00	10.00	-0.54
9,700.00	26.44	180.42	9,650.19	707.63	-44.89	-707.80	10.00	10.00	-0.34
9,750.00	31.44	180.30	9,693.93	683.44	-45.04	-683.61	10.00	10.00	-0.24
9,800.00	36.44	180.21	9,735.40	655.53	-45.16	-655.70	10.00	10.00	-0.18
9,850.00	41.44	180.14	9,774.27	624.11	-45.26	-624.28	10.00	10.00	-0.14
9,900.00	46.44	180.08	9,810.26	589.42	-45.32	-589.60	10.00	10.00	-0.12
9,932.54	49.70	180.05	9,832.00	565.22	-45.35	-565.40	10.00	10.00	-0.10
Harkey Sand									
9,950.00	51.44	180.03	9,843.09	551.73	-45.36	-551.91	10.00	10.00	-0.09
9,991.92	55.64	179.99	9,868.00	518.02	-45.37	-518.20	10.00	10.00	-0.09
3rd Bone Spring Shale									
10,000.00	56.44	179.99	9,872.51	511.32	-45.36	-511.50	10.00	10.00	-0.08
10,050.00	61.44	179.95	9,898.30	468.50	-45.34	-468.68	10.00	10.00	-0.08
10,100.00	66.44	179.91	9,920.25	423.60	-45.29	-423.78	10.00	10.00	-0.07
10,150.00	71.44	179.88	9,938.21	376.95	-45.20	-377.13	10.00	10.00	-0.06
10,200.00	76.44	179.85	9,952.04	328.92	-45.09	-329.09	10.00	10.00	-0.06
10,250.00	81.44	179.82	9,961.62	279.86	-44.95	-280.04	10.00	10.00	-0.06
10,300.00	86.44	179.79	9,966.90	230.16	-44.78	-230.33	10.00	10.00	-0.06
10,335.57	90.00	179.77	9,968.00	194.61	-44.65	-194.79	10.00	10.00	-0.06
Landing Point - 505H FTP.									
10,400.00	90.00	179.77	9,968.00	130.18	-44.40	-130.36	0.00	0.00	0.00
10,500.00	90.00	179.77	9,968.00	30.18	-44.00	-30.36	0.00	0.00	0.00
10,600.00	90.00	179.77	9,968.00	-69.82	-43.61	69.64	0.00	0.00	0.00
10,700.00	90.00	179.77	9,968.00	-169.82	-43.21	169.64	0.00	0.00	0.00
10,800.00	90.00	179.77	9,968.00	-269.82	-42.82	269.64	0.00	0.00	0.00
10,900.00	90.00	179.77	9,968.00	-369.82	-42.42	369.64	0.00	0.00	0.00
11,000.00	90.00	179.77	9,968.00	-469.82	-42.03	469.64	0.00	0.00	0.00
11,100.00	90.00	179.77	9,968.00	-569.82	-41.63	569.64	0.00	0.00	0.00
11,200.00	90.00	179.77	9,968.00	-669.81	-41.24	669.64	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,300.00	90.00	179.77	9,968.00	-769.81	-40.84	769.64	0.00	0.00	0.00
11,400.00	90.00	179.77	9,968.00	-869.81	-40.45	869.64	0.00	0.00	0.00
11,500.00	90.00	179.77	9,968.00	-969.81	-40.05	969.64	0.00	0.00	0.00
11,600.00	90.00	179.77	9,968.00	-1,069.81	-39.66	1,069.64	0.00	0.00	0.00
11,700.00	90.00	179.77	9,968.00	-1,169.81	-39.26	1,169.64	0.00	0.00	0.00
11,800.00	90.00	179.77	9,968.00	-1,269.81	-38.87	1,269.64	0.00	0.00	0.00
11,900.00	90.00	179.77	9,968.00	-1,369.81	-38.48	1,369.64	0.00	0.00	0.00
12,000.00	90.00	179.77	9,968.00	-1,469.81	-38.08	1,469.64	0.00	0.00	0.00
12,100.00	90.00	179.77	9,968.00	-1,569.81	-37.69	1,569.64	0.00	0.00	0.00
12,200.00	90.00	179.77	9,968.00	-1,669.81	-37.29	1,669.64	0.00	0.00	0.00
12,300.00	90.00	179.77	9,968.00	-1,769.81	-36.90	1,769.64	0.00	0.00	0.00
12,400.00	90.00	179.77	9,968.00	-1,869.81	-36.50	1,869.64	0.00	0.00	0.00
12,500.00	90.00	179.77	9,968.00	-1,969.80	-36.11	1,969.64	0.00	0.00	0.00
12,600.00	90.00	179.77	9,968.00	-2,069.80	-35.71	2,069.64	0.00	0.00	0.00
12,700.00	90.00	179.77	9,968.00	-2,169.80	-35.32	2,169.64	0.00	0.00	0.00
12,800.00	90.00	179.77	9,968.00	-2,269.80	-34.92	2,269.64	0.00	0.00	0.00
12,900.00	90.00	179.77	9,968.00	-2,369.80	-34.53	2,369.64	0.00	0.00	0.00
13,000.00	90.00	179.77	9,968.00	-2,469.80	-34.13	2,469.64	0.00	0.00	0.00
13,100.00	90.00	179.77	9,968.00	-2,569.80	-33.74	2,569.64	0.00	0.00	0.00
13,200.00	90.00	179.77	9,968.00	-2,669.80	-33.34	2,669.64	0.00	0.00	0.00
13,300.00	90.00	179.77	9,968.00	-2,769.80	-32.95	2,769.64	0.00	0.00	0.00
13,400.00	90.00	179.77	9,968.00	-2,869.80	-32.56	2,869.64	0.00	0.00	0.00
13,500.00	90.00	179.77	9,968.00	-2,969.80	-32.16	2,969.64	0.00	0.00	0.00
13,600.00	90.00	179.77	9,968.00	-3,069.80	-31.77	3,069.64	0.00	0.00	0.00
13,700.00	90.00	179.77	9,968.00	-3,169.80	-31.37	3,169.64	0.00	0.00	0.00
13,800.00	90.00	179.77	9,968.00	-3,269.79	-30.98	3,269.64	0.00	0.00	0.00
13,900.00	90.00	179.77	9,968.00	-3,369.79	-30.58	3,369.64	0.00	0.00	0.00
14,000.00	90.00	179.77	9,968.00	-3,469.79	-30.19	3,469.64	0.00	0.00	0.00
14,100.00	90.00	179.77	9,968.00	-3,569.79	-29.79	3,569.64	0.00	0.00	0.00
14,200.00	90.00	179.77	9,968.00	-3,669.79	-29.40	3,669.64	0.00	0.00	0.00
14,300.00	90.00	179.77	9,968.00	-3,769.79	-29.00	3,769.64	0.00	0.00	0.00
14,400.00	90.00	179.77	9,968.00	-3,869.79	-28.61	3,869.64	0.00	0.00	0.00
14,500.00	90.00	179.77	9,968.00	-3,969.79	-28.21	3,969.64	0.00	0.00	0.00
14,600.00	90.00	179.77	9,968.00	-4,069.79	-27.82	4,069.64	0.00	0.00	0.00
14,700.00	90.00	179.77	9,968.00	-4,169.79	-27.42	4,169.64	0.00	0.00	0.00
14,800.00	90.00	179.77	9,968.00	-4,269.79	-27.03	4,269.64	0.00	0.00	0.00
14,900.00	90.00	179.77	9,968.00	-4,369.79	-26.63	4,369.64	0.00	0.00	0.00
15,000.00	90.00	179.77	9,968.00	-4,469.79	-26.24	4,469.64	0.00	0.00	0.00
15,100.00	90.00	179.77	9,968.00	-4,569.78	-25.85	4,569.64	0.00	0.00	0.00
15,200.00	90.00	179.77	9,968.00	-4,669.78	-25.45	4,669.64	0.00	0.00	0.00
15,300.00	90.00	179.77	9,968.00	-4,769.78	-25.06	4,769.64	0.00	0.00	0.00
15,400.00	90.00	179.77	9,968.00	-4,869.78	-24.66	4,869.64	0.00	0.00	0.00
15,500.00	90.00	179.77	9,968.00	-4,969.78	-24.27	4,969.64	0.00	0.00	0.00
15,600.00	90.00	179.77	9,968.00	-5,069.78	-23.87	5,069.64	0.00	0.00	0.00
15,700.00	90.00	179.77	9,968.00	-5,169.78	-23.48	5,169.64	0.00	0.00	0.00
15,800.00	90.00	179.77	9,968.00	-5,269.78	-23.08	5,269.64	0.00	0.00	0.00
15,900.00	90.00	179.77	9,968.00	-5,369.78	-22.69	5,369.64	0.00	0.00	0.00
16,000.00	90.00	179.77	9,968.00	-5,469.78	-22.29	5,469.64	0.00	0.00	0.00
16,100.00	90.00	179.77	9,968.00	-5,569.78	-21.90	5,569.64	0.00	0.00	0.00
16,200.00	90.00	179.77	9,968.00	-5,669.78	-21.50	5,669.64	0.00	0.00	0.00
16,300.00	90.00	179.77	9,968.00	-5,769.77	-21.11	5,769.64	0.00	0.00	0.00
16,400.00	90.00	179.77	9,968.00	-5,869.77	-20.71	5,869.64	0.00	0.00	0.00
16,500.00	90.00	179.77	9,968.00	-5,969.77	-20.32	5,969.64	0.00	0.00	0.00
16,600.00	90.00	179.77	9,968.00	-6,069.77	-19.93	6,069.64	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)	
16,700.00	90.00	179.77	9,968.00	-6,169.77	-19.53	6,169.64	0.00	0.00	0.00	
16,800.00	90.00	179.77	9,968.00	-6,269.77	-19.14	6,269.64	0.00	0.00	0.00	
16,900.00	90.00	179.77	9,968.00	-6,369.77	-18.74	6,369.64	0.00	0.00	0.00	
17,000.00	90.00	179.77	9,968.00	-6,469.77	-18.35	6,469.64	0.00	0.00	0.00	
17,100.00	90.00	179.77	9,968.00	-6,569.77	-17.95	6,569.64	0.00	0.00	0.00	
17,200.00	90.00	179.77	9,968.00	-6,669.77	-17.56	6,669.64	0.00	0.00	0.00	
17,300.00	90.00	179.77	9,968.00	-6,769.77	-17.16	6,769.64	0.00	0.00	0.00	
17,400.00	90.00	179.77	9,968.00	-6,869.77	-16.77	6,869.64	0.00	0.00	0.00	
17,500.00	90.00	179.77	9,968.00	-6,969.77	-16.37	6,969.64	0.00	0.00	0.00	
17,600.00	90.00	179.77	9,968.00	-7,069.76	-15.98	7,069.64	0.00	0.00	0.00	
17,700.00	90.00	179.77	9,968.00	-7,169.76	-15.58	7,169.64	0.00	0.00	0.00	
17,800.00	90.00	179.77	9,968.00	-7,269.76	-15.19	7,269.64	0.00	0.00	0.00	
17,900.00	90.00	179.77	9,968.00	-7,369.76	-14.79	7,369.64	0.00	0.00	0.00	
18,000.00	90.00	179.77	9,968.00	-7,469.76	-14.40	7,469.64	0.00	0.00	0.00	
18,100.00	90.00	179.77	9,968.00	-7,569.76	-14.00	7,569.64	0.00	0.00	0.00	
18,200.00	90.00	179.77	9,968.00	-7,669.76	-13.61	7,669.64	0.00	0.00	0.00	
18,300.00	90.00	179.77	9,968.00	-7,769.76	-13.22	7,769.64	0.00	0.00	0.00	
18,400.00	90.00	179.77	9,968.00	-7,869.76	-12.82	7,869.64	0.00	0.00	0.00	
18,500.00	90.00	179.77	9,968.00	-7,969.76	-12.43	7,969.64	0.00	0.00	0.00	
18,600.00	90.00	179.77	9,968.00	-8,069.76	-12.03	8,069.64	0.00	0.00	0.00	
18,700.00	90.00	179.77	9,968.00	-8,169.76	-11.64	8,169.64	0.00	0.00	0.00	
18,800.00	90.00	179.77	9,968.00	-8,269.76	-11.24	8,269.64	0.00	0.00	0.00	
18,900.00	90.00	179.77	9,968.00	-8,369.75	-10.85	8,369.64	0.00	0.00	0.00	
19,000.00	90.00	179.77	9,968.00	-8,469.75	-10.45	8,469.64	0.00	0.00	0.00	
19,100.00	90.00	179.77	9,968.00	-8,569.75	-10.06	8,569.64	0.00	0.00	0.00	
19,200.00	90.00	179.77	9,968.00	-8,669.75	-9.66	8,669.64	0.00	0.00	0.00	
19,300.00	90.00	179.77	9,968.00	-8,769.75	-9.27	8,769.64	0.00	0.00	0.00	
19,400.00	90.00	179.77	9,968.00	-8,869.75	-8.87	8,869.64	0.00	0.00	0.00	
19,500.00	90.00	179.77	9,968.00	-8,969.75	-8.48	8,969.64	0.00	0.00	0.00	
19,600.00	90.00	179.77	9,968.00	-9,069.75	-8.08	9,069.64	0.00	0.00	0.00	
19,700.00	90.00	179.77	9,968.00	-9,169.75	-7.69	9,169.64	0.00	0.00	0.00	
19,800.00	90.00	179.77	9,968.00	-9,269.75	-7.30	9,269.64	0.00	0.00	0.00	
19,900.00	90.00	179.77	9,968.00	-9,369.75	-6.90	9,369.64	0.00	0.00	0.00	
20,000.00	90.00	179.77	9,968.00	-9,469.75	-6.51	9,469.64	0.00	0.00	0.00	
20,100.00	90.00	179.77	9,968.00	-9,569.75	-6.11	9,569.64	0.00	0.00	0.00	
20,200.00	90.00	179.77	9,968.00	-9,669.74	-5.72	9,669.64	0.00	0.00	0.00	
20,300.00	90.00	179.77	9,968.00	-9,769.74	-5.32	9,769.64	0.00	0.00	0.00	
20,400.00	90.00	179.77	9,968.00	-9,869.74	-4.93	9,869.64	0.00	0.00	0.00	
20,500.00	90.00	179.77	9,968.00	-9,969.74	-4.53	9,969.64	0.00	0.00	0.00	
20,600.00	90.00	179.77	9,968.00	-10,069.74	-4.14	10,069.64	0.00	0.00	0.00	
20,700.00	90.00	179.77	9,968.00	-10,169.74	-3.74	10,169.64	0.00	0.00	0.00	
20,767.29	90.00	179.77	9,968.00	-10,237.03	-3.48	10,236.93	0.00	0.00	0.00	
505H LTP.										
20,800.00	90.00	179.77	9,968.00	-10,269.74	-3.35	10,269.64	0.00	0.00	0.00	
20,817.29	90.00	179.77	9,968.00	-10,287.03	-3.28	10,286.93	0.00	0.00	0.00	
505H BHL.										



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 505H
Company:	XTO Energy	TVD Reference:	GL @ 3172.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	GL @ 3172.00usft (TBD)
Site:	POKER LAKE UNIT 20 BD	North Reference:	Grid
Well:	505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
505H SHL. - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	403,044.33	633,161.98	32.1073549	-103.9032711
505H BHL. - plan hits target center - Point	0.00	0.00	9,968.00	-10,287.03	-3.28	392,757.30	633,158.70	32.0790761	-103.9034142
505H FTP. - plan hits target center - Point	0.00	0.00	9,968.00	194.61	-44.65	403,238.94	633,117.33	32.1078903	-103.9034128
505H LTP. - plan misses target center by 0.14usft at 20767.29usft MD (9968.00 TVD, -10237.03 N, -3.48 E) - Point	0.00	0.00	9,968.00	-10,237.03	-3.34	392,807.30	633,158.64	32.0792136	-103.9034137

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
663.00	663.00	Rustler			
1,043.00	1,043.00	Salado			
3,412.82	3,406.00	Base of Salt			
3,599.87	3,592.00	Delaware			
4,521.06	4,508.00	Cherry Canyon			
6,124.09	6,102.00	Brushy Canyon			
7,185.07	7,157.00	Basal Brushy Canyon			
7,445.53	7,416.00	Bone Spring			
7,589.34	7,559.00	Avalon Upper			
7,994.63	7,962.00	Avalon Lower			
8,175.65	8,142.00	1st Bone Spring Lime			
8,379.80	8,345.00	1st Bone Spring Sand			
8,751.89	8,715.00	2nd Bone Spring Lime			
9,236.62	9,197.00	2nd Bone Spring Sand			
9,522.86	9,482.00	3rd Bone Spring Lime			
9,932.54	9,832.00	Harkey Sand			
9,991.92	9,868.00	3rd Bone Spring Shale			
10,335.57	9,968.00	Landing Point			

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 (6102') 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 include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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 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. Once the bradenhead operations are completed after the run is completed, the well will be shut in and the TA cap will be removed.

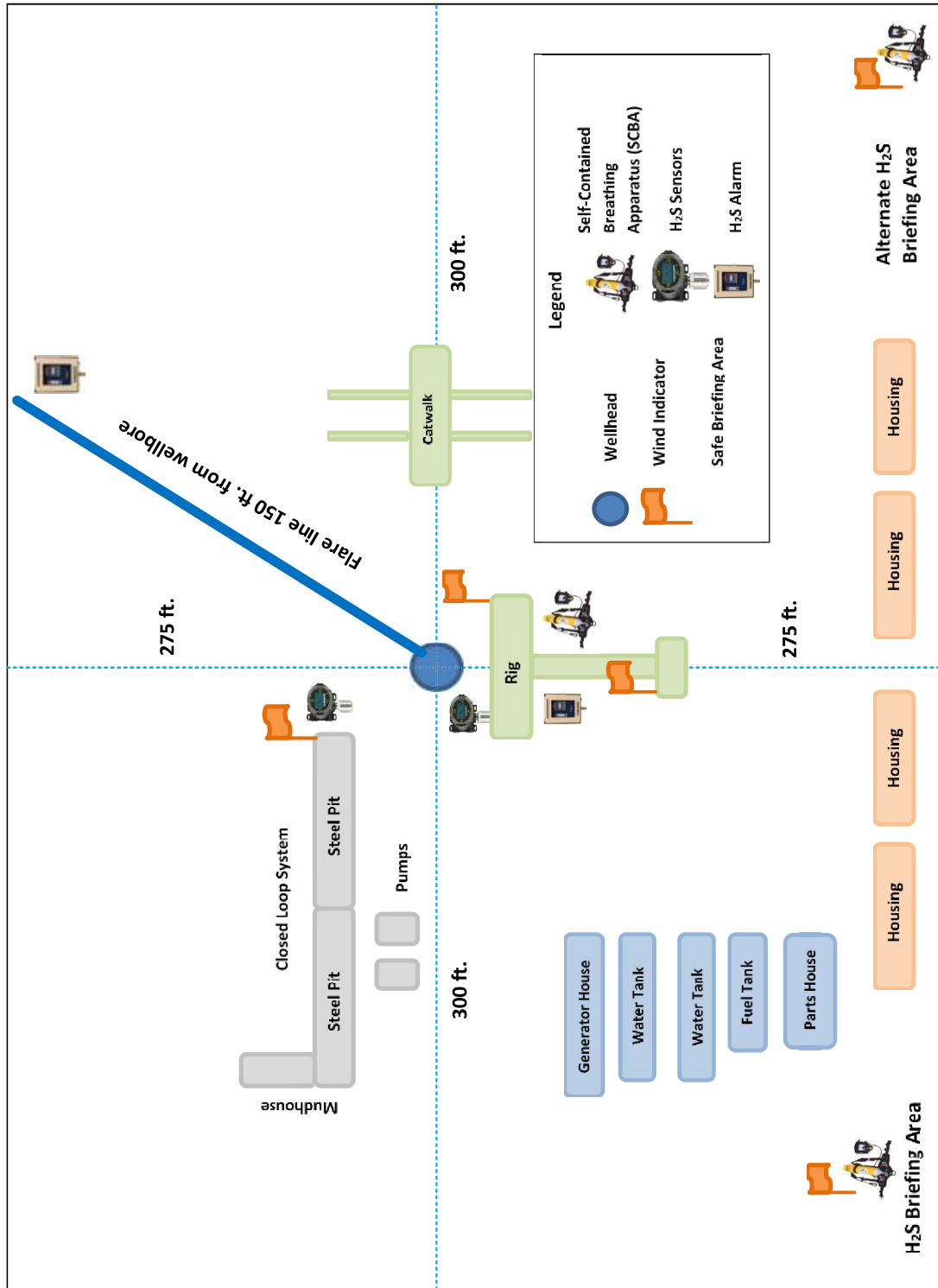
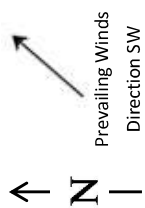


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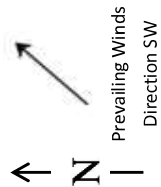
CACTUS WELLHEAD LLC

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

H2S Briefing Areas and Alarm Locations

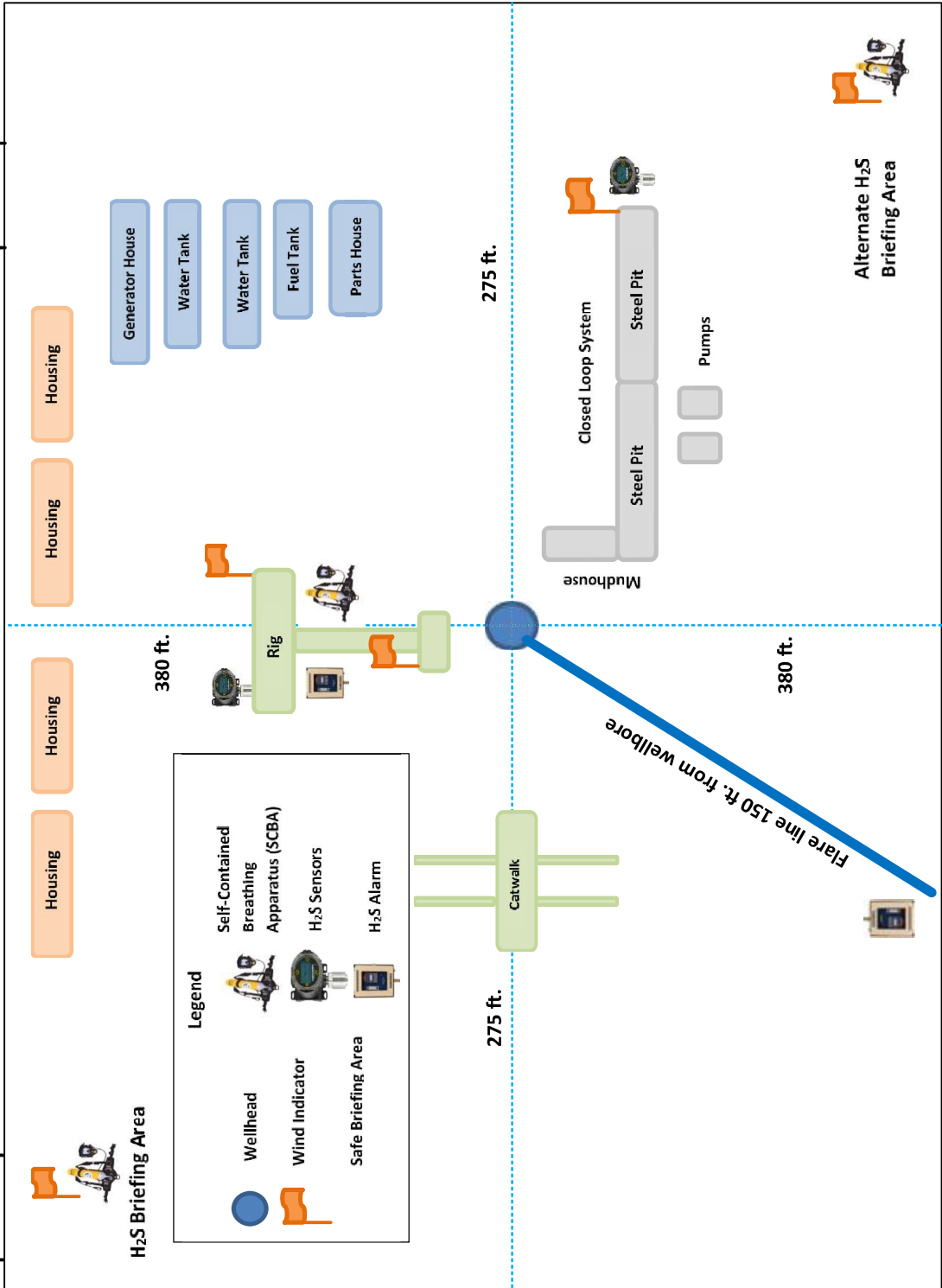


H2S Briefing Areas and Alarm Locations

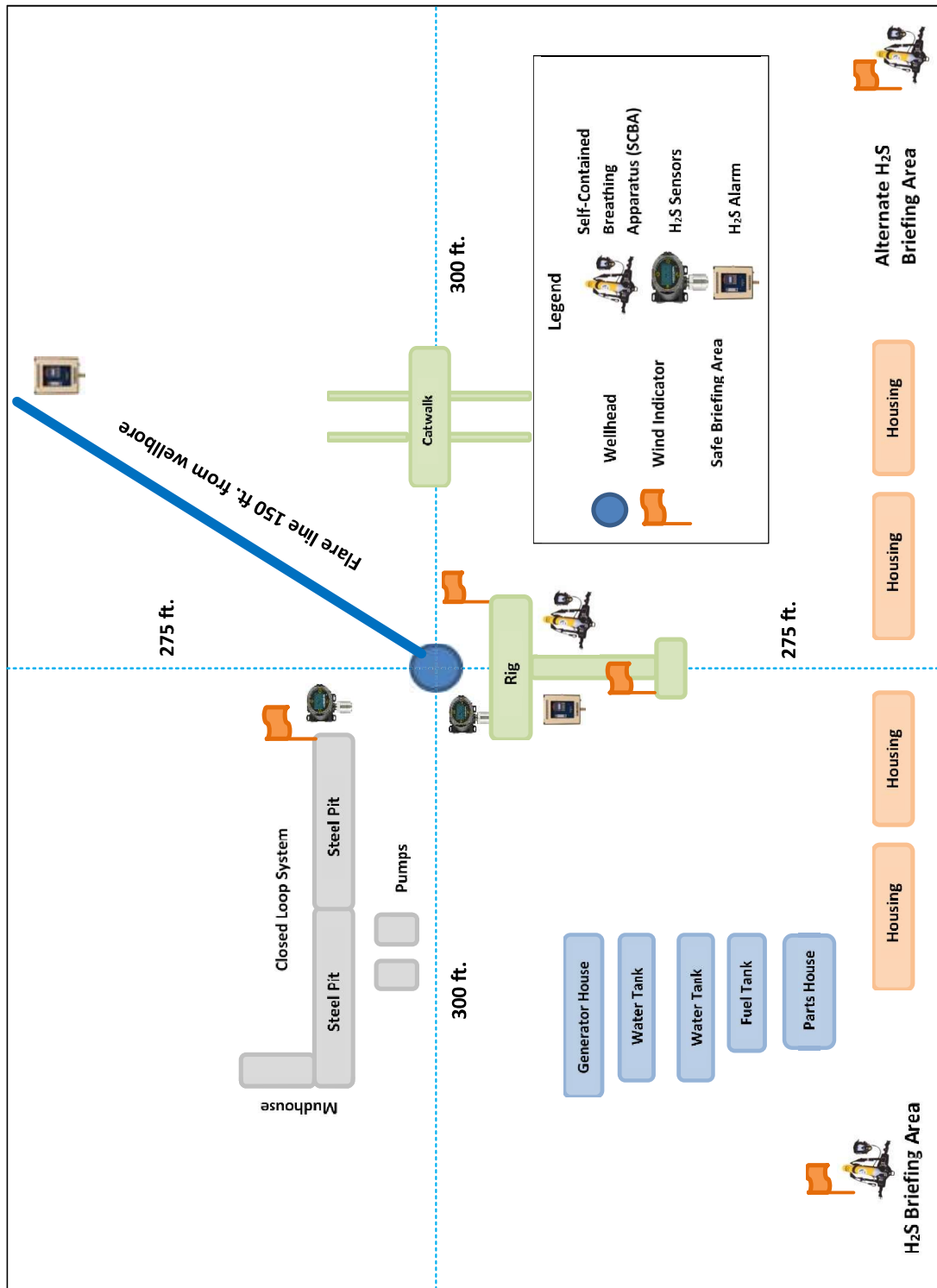
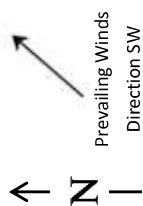


Existing Road

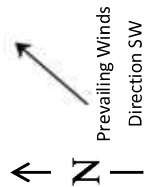
Proposed Road



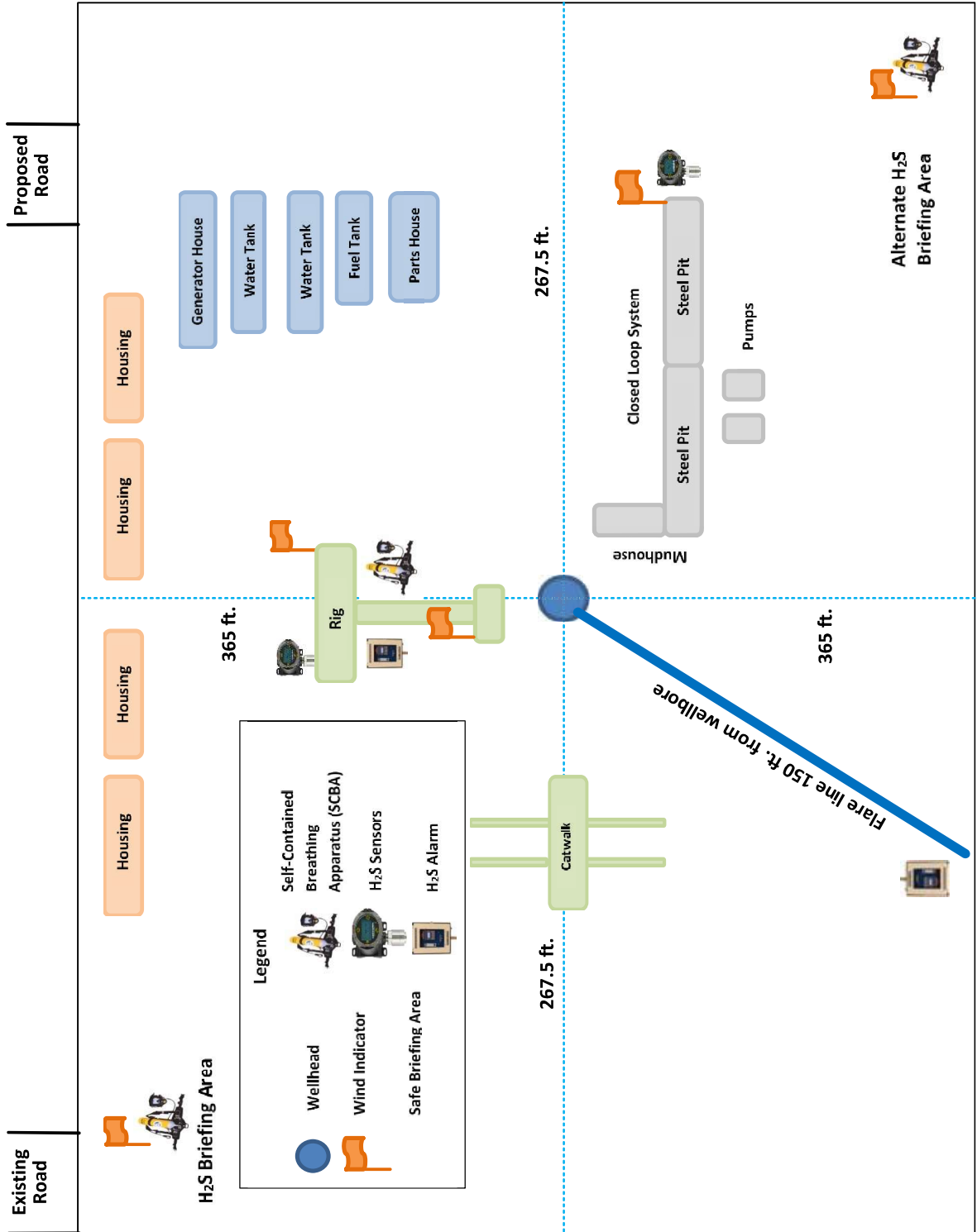
H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



Prevailing Winds
Direction SW



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: XTO PERMIAN OPERATING, LLC. **OGRID:** 373075

Date: 01/03/2025

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

If Other, please describe: _____

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

Well Name	AP I	ULST R	Footages	Anticipate d Oil BBL/D	3 yr Anticipate d Decline oil BBL/D	Anticipate d Gas MCF/D	3 yr anticipate d decline Gas MCF/D	Anticipate d Produced Water BBL/D	3 yr anticipate d decline Water BBL/D
PLU 20 BRUSHY DRAW 116H		20 25S 30E	205 FSL, 450 FWL	1,100	100	4,500	700	4,250	450
PLU 20 BRUSHY DRAW 117H		20 25S 30E	205 FSL, 480 FWL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 118H		20 25S 30E	205 FSL, 510 FWL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 501H		29 25S 30E	235 FNL, 2573 FWL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 503H		29 25S 30E	265 FNL, 2573 FWL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 505H		29 25S 30E	295 FNL, 2573 FWL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 308H		20 25S 30E	105 FSL, 1978 FEL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 309H		20 25S 30E	105 FSL, 1948 FEL	1,400	150	6,000	900	5,500	650
PLU 20 BRUSHY DRAW 310H		20 25S 30E	105 FSL, 1918 FEL	1,500	150	2,500	700	3,000	350

PLU 20 BRUSHY DRAW 602H		29 25S 30E	129 FNL, 1139 FEL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 604H		29 25S 30E	159 FNL, 1139 FEL	1,500	150	2,500	700	3,000	350
PLU 20 BRUSHY DRAW 606H		29 25S 30E	189 FNL, 1139 FEL	1,500	150	2,500	700	3,000	350

IV. Central Delivery Point Name: _____ POKER LAKE UNIT BD 20 CTB _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
PLU 20 BRUSHY DRAW 116H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 117H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 118H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 501H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 503H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 505H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 308H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 309H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 310H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 602H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 604H	TBD	TBD	TBD	TBD	TBD	TBD
PLU 20 BRUSHY DRAW 606H	TBD	TBD	TBD	TBD	TBD	TBD

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

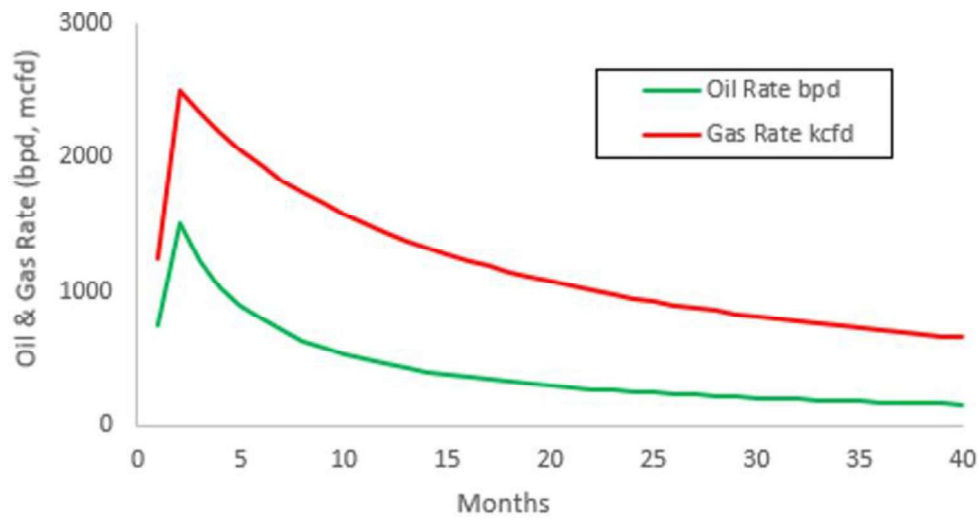
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural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

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

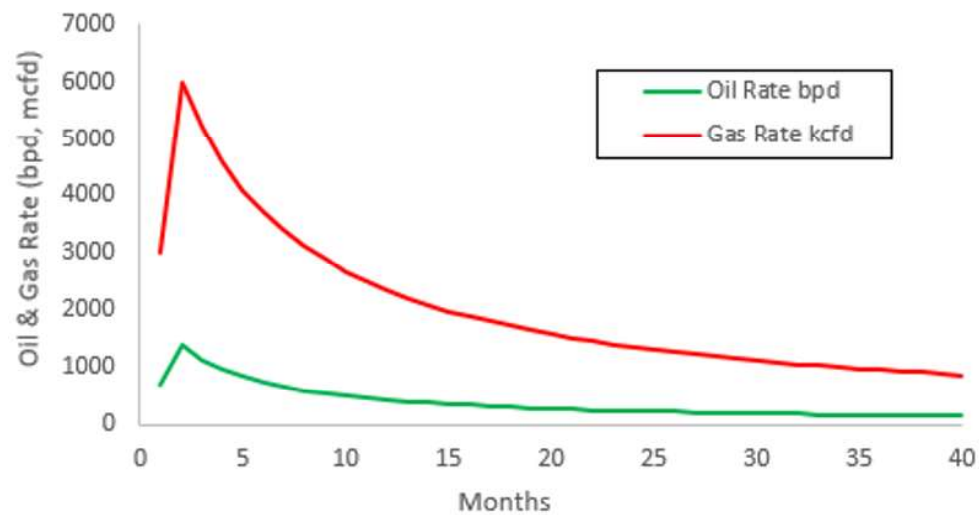
Signature: <i>Vishal Rajan</i>
Printed Name: VISHAL RAJAN
Title: REGULATORY ANALYST
E-mail Address: vishal.rajan@exxonmobil.com
Date: 01/03/2025
Phone: 346-225-9159
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Poker Lake Unit – Decline Curves

Bone Spring:



Wolfcamp:



VI. Separation Equipment:

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

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

VII. Operational Practices

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

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

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

VIII. Best Management Practices during Maintenance

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

XTO 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.

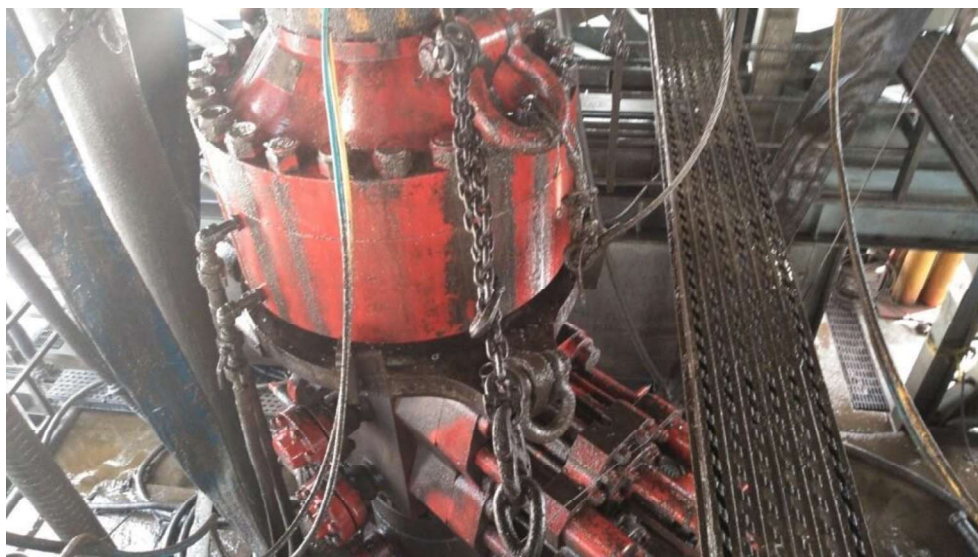


Figure 1: Winch System attached to BOP Stack

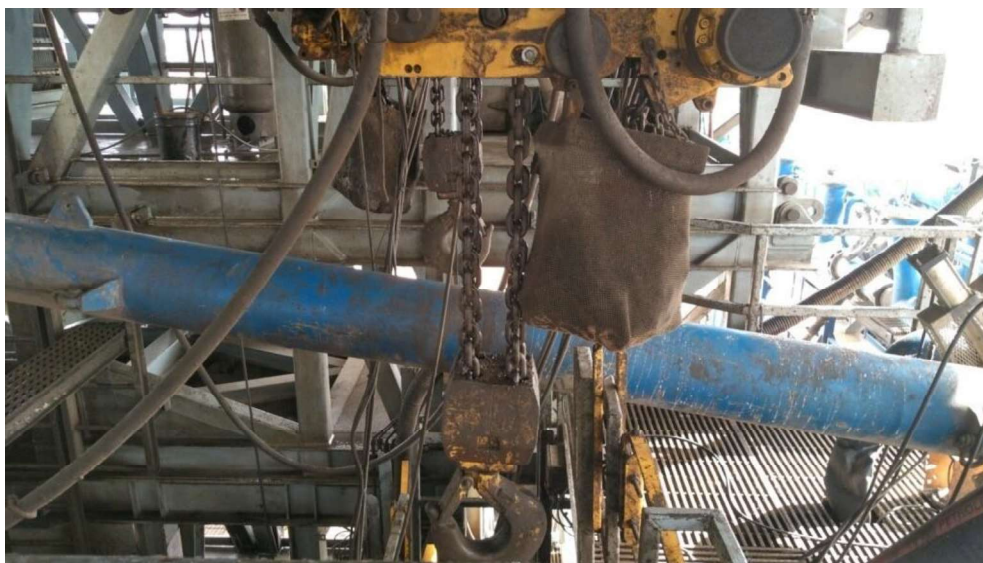


Figure 2: BOP Winch System

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

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

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

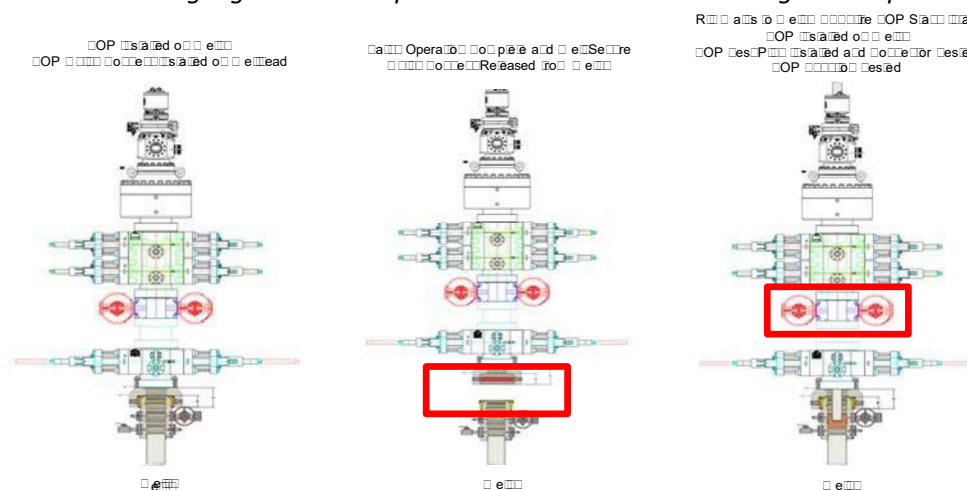
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

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

Procedures

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

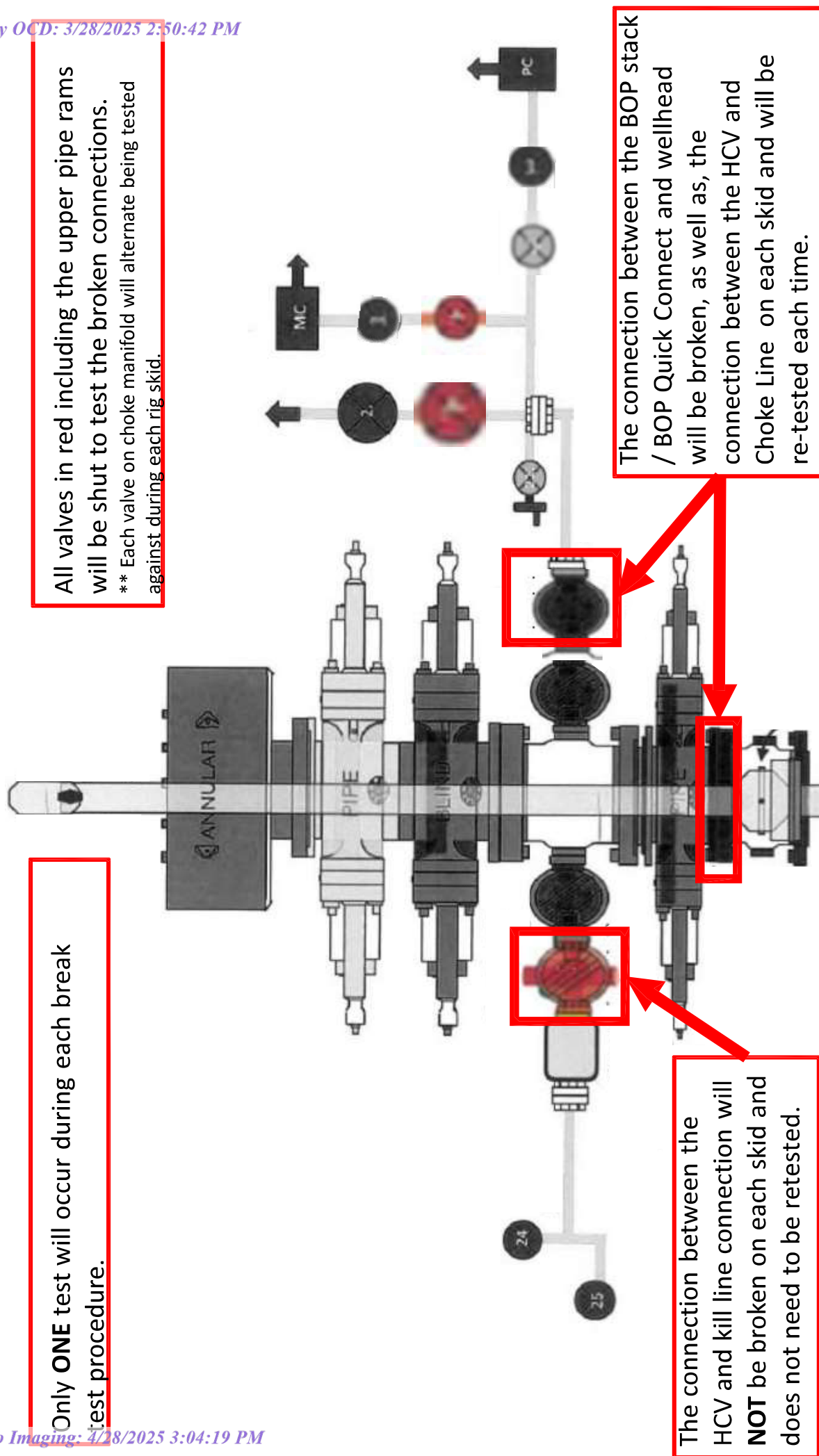
- Note: Picture below highlights BOP components that will be tested during batch operations*



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.

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.



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.

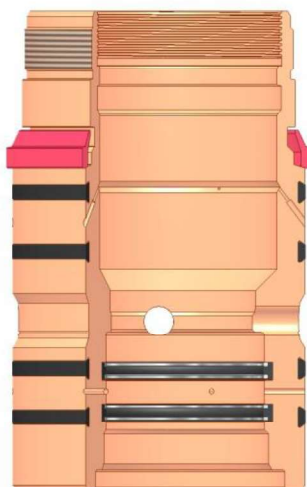
1. Cement Program

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

2. Offline Cementing Procedure

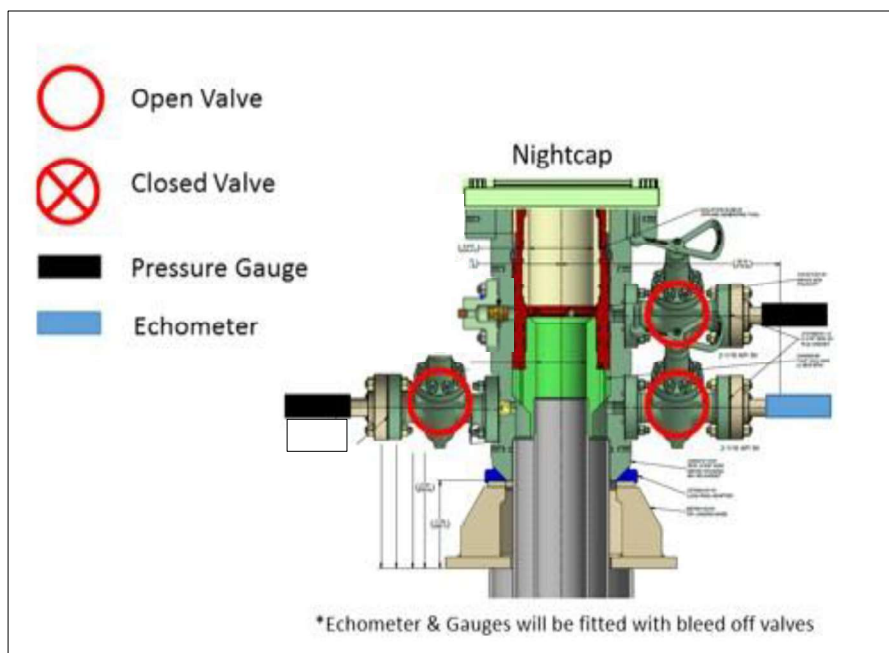
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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 nippedled 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.



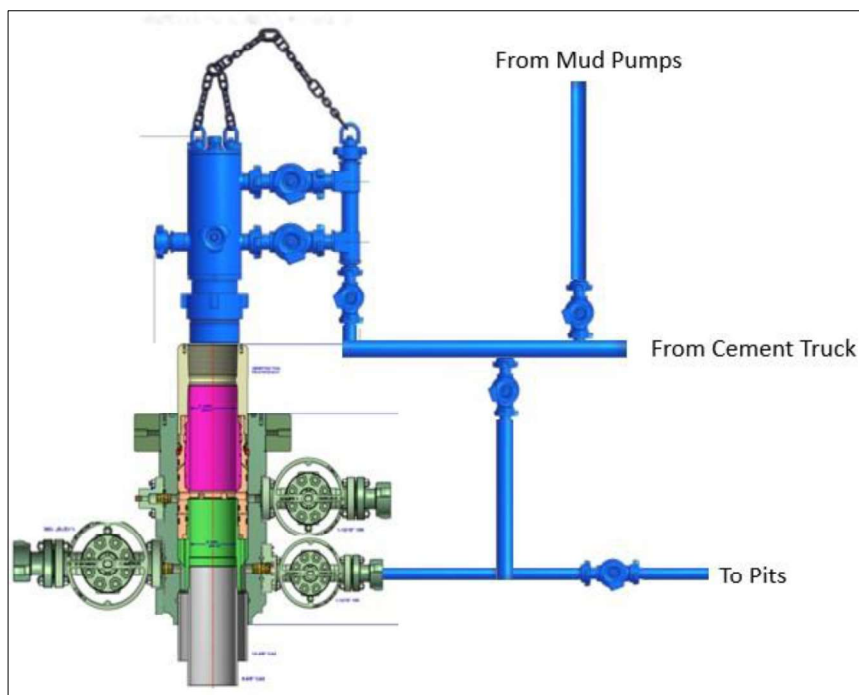
Annular packoff with both external and internal seals

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.

**BLACK GOLD®**

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

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

*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

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

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

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

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

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



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

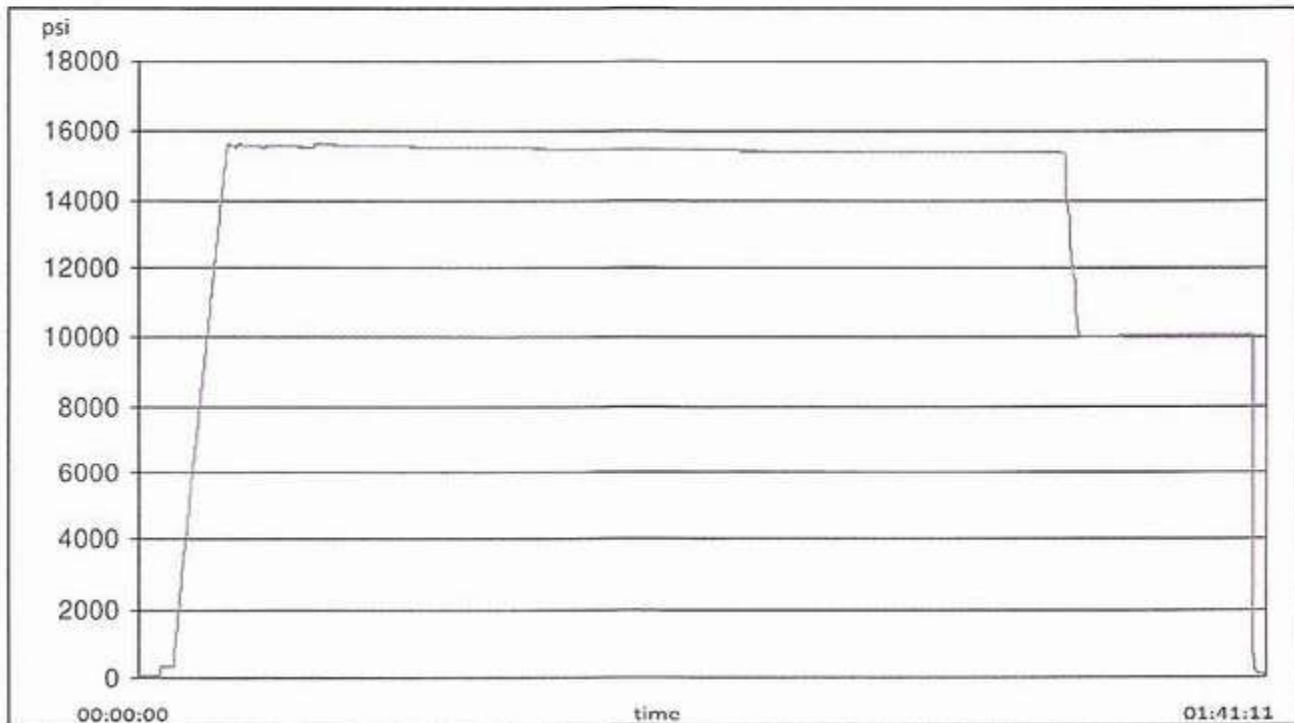
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

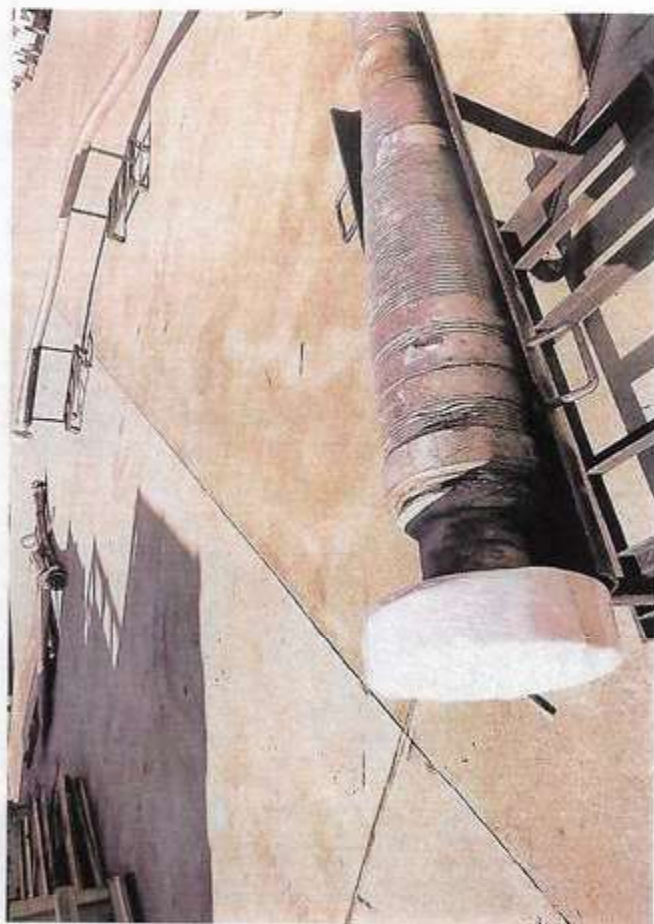
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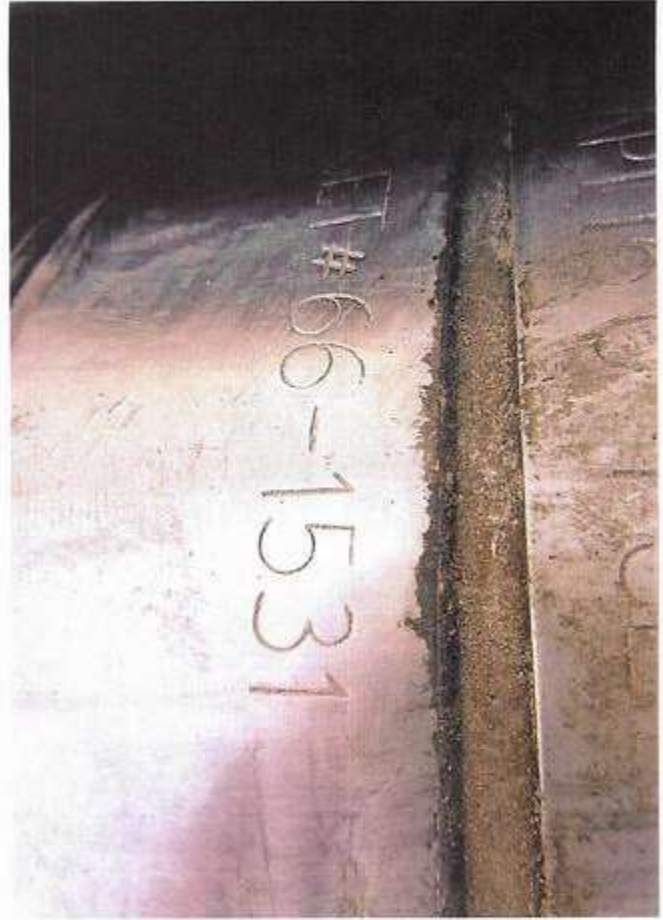
TEST REPORT

GAUGE TRACEABILITY

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

Comment







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

SUPO Data Report

03/28/2025

APD ID: 10400095829

Submission Date: 11/20/2023

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PLU_20_BD_505H_Access_Road_Map_20250220103538.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

PLU_20_BD__Access_Road_20250220103558.pdf

New road type: RESOURCE

Length: 3171

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: 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.

New road access plan or profile prepared? N

New road access plan

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Access road engineering design?** N**Access road engineering design****Turnout?** N**Access surfacing type:** OTHER**Access topsoil source:** ONSITE**Access surfacing type description:** 6" Rolled and Compacted Native Caliche**Access onsite topsoil source depth:** 6**Offsite topsoil source description:****Onsite topsoil removal process:** The topsoil that was stripped will be spread along the edge of the road and within the ditch.**Access other construction information:** Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.**Access miscellaneous information:** The Poker Lake Unit 20 Brushy Draw area is accessed by existing U.S. Hwy 285 and Longhorn Rd (paved) approximately 2.4 miles. Take slight left and continue on Longhorn Road (paved) for approximately 1.8 miles. Turn left (northeast) onto Pipeline Road #1 (gravel) for approximately 6.9 miles. Locations are to the Southwest. Transportation Plan identifying existing roads that will be used to access the project area is included from Franks Surveying marked as, Vicinity Map. There are no existing access roads to the proposed Poker Lake Unit 20 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Franks Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.**Number of access turnouts:****Access turnout map:**[Drainage Control](#)**New road drainage crossing:** LOW WATER**Drainage Control comments:** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.**Road Drainage Control Structures (DCS) description:** The access road 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.**Road Drainage Control Structures (DCS) attachment:**[Access Additional Attachments](#)[Section 3 - Location of Existing Wells](#)**Existing Wells Map?** YES**Attach Well map:**

PLU_20_BD_1Mile_20231103023657.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Production Facilities. Existing Facility. B. Flowlines. In the event the wells are found productive, 4 composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the PLU 20 BD West CTB where the oil, gas, and water will be metered and appropriately separated. High pressure gas lines will be buried beneath the surface flowlines per well pad within the proposed lease road corridors for gas lift, fuel and water. Oil will be hauled from the location by truck following existing and proposed lease roads. The distance of proposed flowlines per well will be approximately 2,584.21' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached. C. Gas Pipeline. A gas purchaser has been identified. Two 110 corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 20 BD West CTB. XTO Permian Operating LLC. will be installing the line with anticipated risers located on the CTB. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. D. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. E. Flare. There is 1 flare associated with the Poker Lake Unit 20 Brushy Draw project. The flare stack will be 50x50 located on the PLU 20 BD West Central Tank Battery. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes. 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 shale green that reduce the visual impacts of the built environment. G. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 times the capacity of the largest tank and away from cut or fill areas. H. Electrical. All electrical poles and lines will be placed within existing and proposed lease road corridors. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 964.75' of electrical will be run from the anticipated tie-in point with a request for 30 ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Production Facilities map:

PLU_20_BD__Flow_Line_20250220103647.pdf

PLU_20_BD__WEST_FACILITY_PAD_20250220103648.pdf

PLU_20_BD_Electric_Line_20250220110748.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Fresh Water; Section 27, T25S-R30E, Eddy County, New Mexico

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

Source latitude:

Source longitude:

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION
CASING

STIMULATION

Source datum:**Water source permit type:** PRIVATE CONTRACT**Water source transport method:** PIPELINE**Source land ownership:** COMMERCIAL**Source transportation land ownership:** FEDERAL**Water source volume (barrels):** 2000000**Source volume (acre-feet):** 257.78619266**Source volume (gal):** 84000000**Water source type:** OTHER**Describe type:** Fresh Water; Section 6, T25S-R29E, Eddy County,
New Mexico.**Water source use type:** DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION
CASING

STIMULATION

Source latitude:**Source longitude:****Source datum:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** PIPELINE**Source land ownership:** COMMERCIAL**Source transportation land ownership:** FEDERAL**Water source volume (barrels):** 2000000**Source volume (acre-feet):** 257.78619266**Source volume (gal):** 84000000

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Water source and transportation**

PLU_20_BD_505H_Vicinity_Map_20250220103723.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating LLC. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific WaterResources does not have the appropriate water for XTO Permian Operating LLC at time of drilling and completion, then XTO Permian Operating LLC. waterwill come from Intrepid Potash Company with the location of the waterbeing in Section 6, T25S-R29E, EddyCounty, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

Section 6 - Construction Materials

Using any construction materials: YES**Construction Materials description:** Pit 1: Federal Caliche Pit, Section 17-T25S-R30E NESW Pit 2: Federal Caliche Pit, Section 34-T25S-R29E SWSW**Construction Materials source location**

Section 7 - Methods for Handling

Waste type: DRILLING**Waste content description:** FLUID**Amount of waste:** 500 barrels**Waste disposal frequency :** One Time Only**Safe containment description:** Steel mud boxes**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240**Waste type:** DRILLING**Waste content description:** CUTTINGS**Amount of waste:** 2100 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240**Waste type:** SEWAGE**Waste content description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.**Amount of waste:** 250 gallons**Waste disposal frequency :** Weekly**Safe containment description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

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

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

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

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

Safe containmant attachment:**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** A licensed 3rd party contractor to haul and dispose of human waste.**Reserve Pit****Reserve Pit being used?** NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)** **Reserve pit width (ft.)****Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description****Cuttings Area****Cuttings Area being used?** NO

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Are you storing cuttings on location?** Y

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

Cuttings area length (ft.)**Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities****Comments:**

Section 9 - Well Site

Well Site Layout Diagram:

PLU_20_BD_505H_Well_Site_plat_20250220103813.pdf

PLU_20_BD_505H_RL_20250220103814.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** PLU 20 BD**Multiple Well Pad Number:** E**Recontouring**

PLU_20_BD_IR6_20250220103833.pdf

PLU_20_BD_IR5_20250220103833.pdf

PLU_20_BD_IR1_20250220103833.pdf

PLU_20_BD_IR3_20250220103833.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 gully, headcutting, slumping,

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres): 21.49	Well pad interim reclamation (acres): 7.72	Well pad long term disturbance (acres): 13.77
Road proposed disturbance (acres): 2.23	Road interim reclamation (acres): 0	Road long term disturbance (acres): 2.23
Powerline proposed disturbance (acres): 0.67	Powerline interim reclamation (acres): 0.67	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 3.59	Pipeline interim reclamation (acres): 3.59	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 27.98	Total interim reclamation: 11.98	Total long term disturbance: 16

Disturbance Comments:

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

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H

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

Existing Vegetation Community at other disturbances**Non native seed used?** N**Non native seed description:****Seedling transplant description:****Will seedlings be transplanted for this project?** N**Seedling transplant description****Will seed be harvested for use in site reclamation?** N**Seed harvest description:****Seed harvest description attachment:****Seed****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation****Operator Contact/Responsible Official****First Name:** Robert**Last Name:** Bartels**Phone:** (406)478-3617**Email:** robert.e.bartels@exxonmobil.com

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

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

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

Existing invasive species? N

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**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:**Section 11 - Surface Ownership****Disturbance type:** PIPELINE**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Disturbance type:** EXISTING ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:****Disturbance type:** NEW ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Disturbance type:** OTHER**Describe:** FLOWLINES**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:** TRANSMISSION LINE**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Disturbance type:** WELL PAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

Section 12 - Other

Right of Way needed? Y**Use APD as ROW?** Y**ROW Type(s):** 281001 ROW - ROADS,285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,289001 ROW- O&G Well Pad,FLPMA (Powerline)**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 10/05/2022.**Other SUPO**

POKER_LAKE_UNIT_20_BD_WELL_LIST_08_15_2023_20231113124541.pdf

PLU_20_BD_SUPO_20250220104135.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

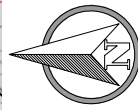
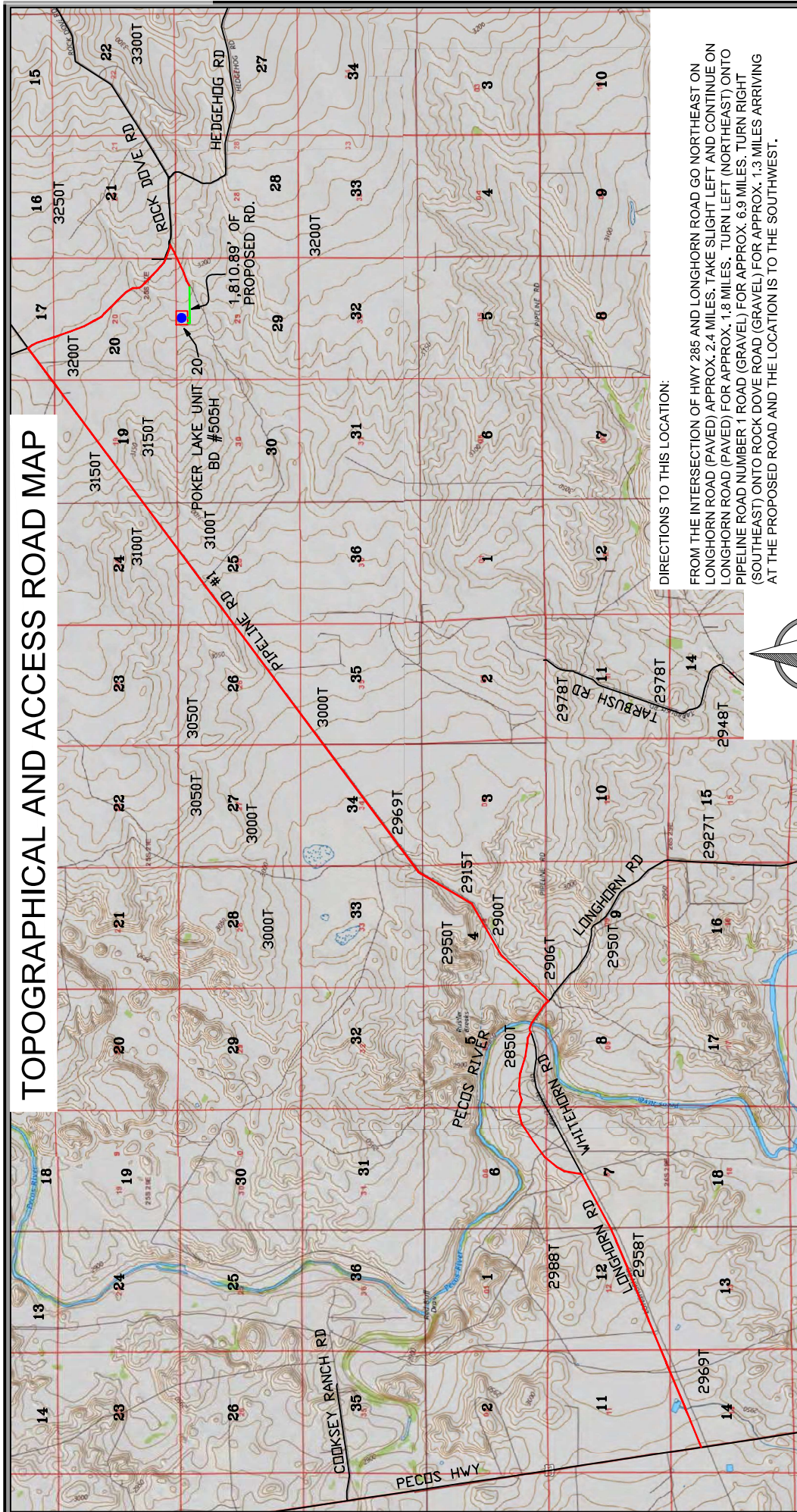
Well Number: 505H

PLU_20_BD_PAD_D_Layout_20250220120941.pdf

PLU_20_BD_PAD_E_Layout_20250220120941.pdf

PLU_20_BD_PAD_F_Layout_20250220120941.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP



POKER LAKE UNIT 20 BD #505H

LOCATED 2,573 FEET FROM THE WEST LINE
AND 295 FEET FROM THE NORTH LINE OF
SECTION 29, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

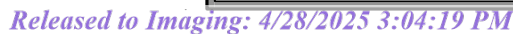
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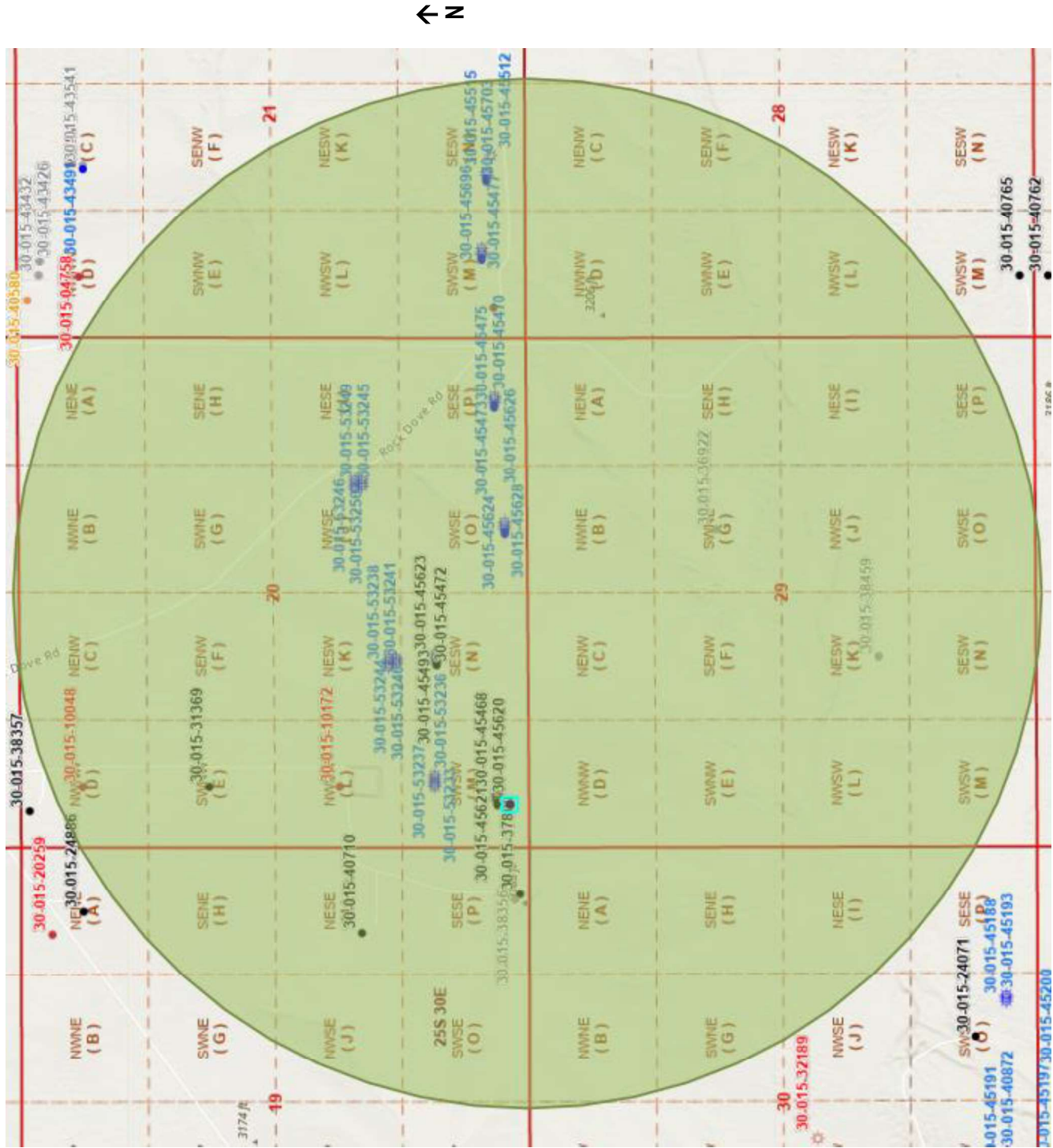
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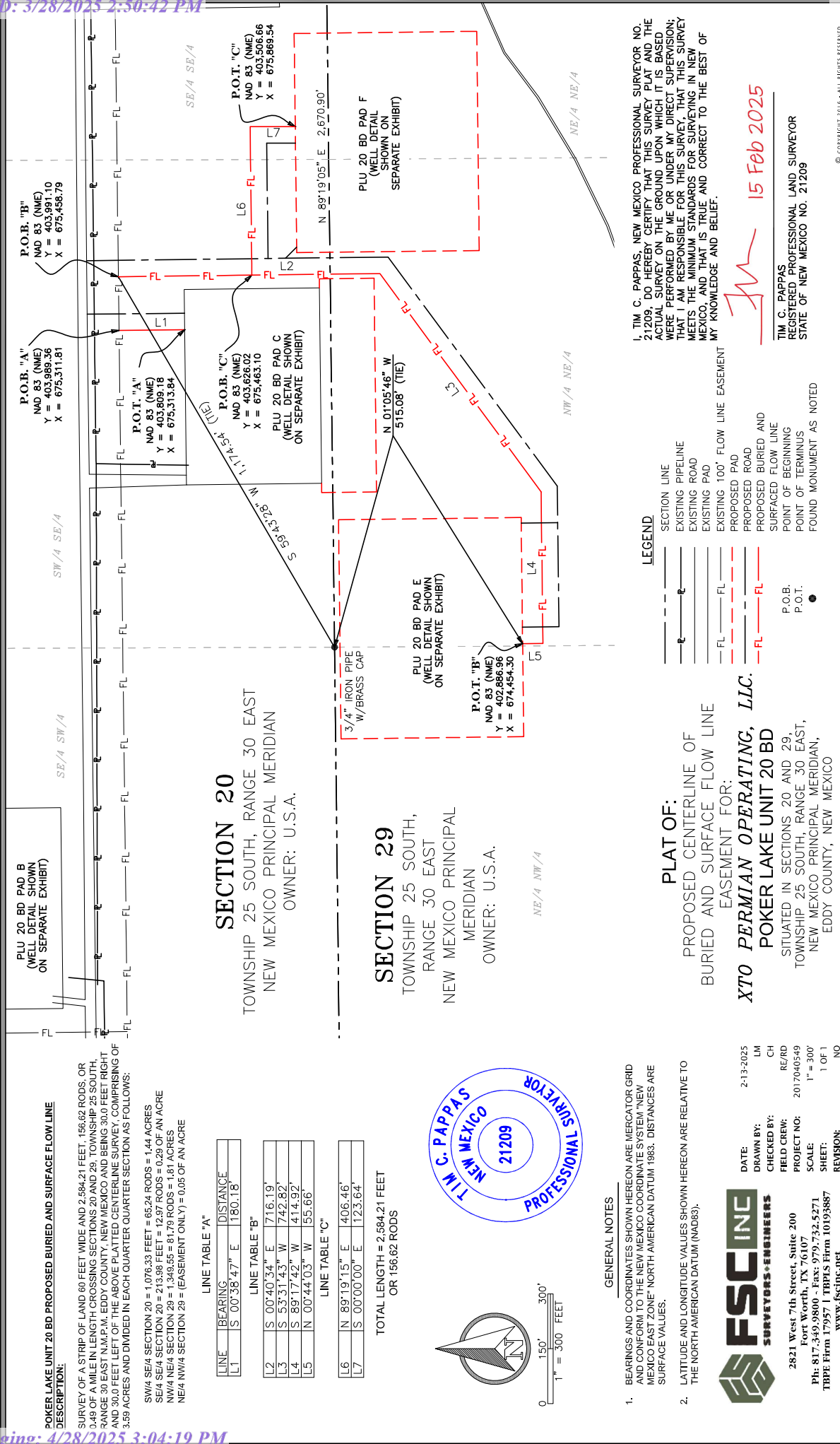
DATE: 8-16-2023 PROJECT NO: 2023040216
DRAWN BY: AS/CF SCALE: 1" = 5,000'
CHECKED BY: CH SHEET: 1 OF 1
FIELD CREW: RE/RR REVISION:





1 Mile Radius Map





POKER LAKE UNIT 20 BD EXISTING FACILITY PAD DESCRIPTION:

Description of a existing west facility pad totaling 8.46 acres and being situated in Section 20, Township 25 South, Range 30 East, New Mexico Principal Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southwest corner of the existing west facility pad from which a found 1 1/2" iron pipe with a brass cap, being the southwest corner of said Section 20, bears S 47°18'01" W 1,393.00 feet;

THENCE over and across said Section 20, the following courses and distances:

N 00°08'07" W, a distance of 587.80 feet to a point;

N 89°49'39" E, a distance of 627.53 feet to a point;

S 01°04'21" E, a distance of 534.55 feet to a point;

S 67°25'59" W, a distance of 38.13 feet to a point;

S 15°15'43" W, a distance of 36.00 feet to a point;

S 89°25'55" W, a distance of 591.49 feet to the POINT OF BEGINNING containing a total of **8.46 acres**, more or less.

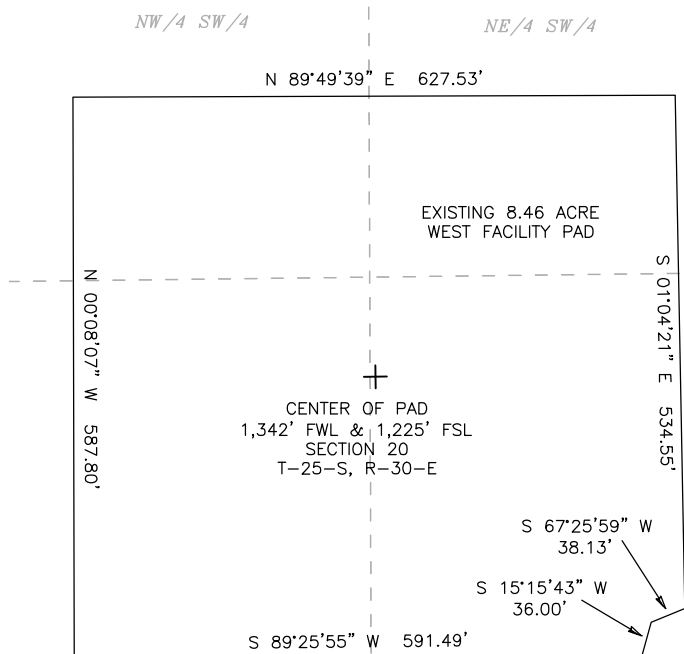
Said pad is divided in each quarter-quarter section as follows

NW/4 SW/4 Section 20 = 1.34 ACRES

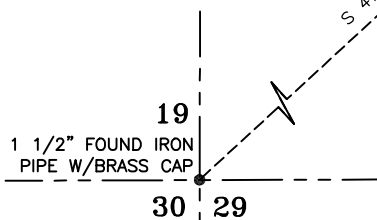
NE/4 SW/4 Section 20 = 1.38 ACRES

SW/4 SW/4 Section 20 = 2.81 ACRES

SE/4 SW/4 Section 20 = 2.93 ACRES

**P.O.B.**

NAD 83 (NME)
Y = 404,312.14
X = 672,795.45

**GENERAL NOTES**

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

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]

19 Feb 2025

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



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Fort Worth, TX 76107
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SW/4 SW/4

SE/4 SW/4

SECTION 20

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

LEGEND

--- SECTION LINE
--- EXISTING FACILITY PAD

P.O.B. POINT OF BEGINNING
● FOUND MONUMENT AS NOTED

XTO PERMIAN OPERATING, LLC.

**EXISTING FACILITY PAD
POKER LAKE UNIT 20 BD**

SURVEY FOR A EXISTING WEST FACILITY
PAD SITUATED IN THE SW/4 OF SECTION 20,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	2-19-2025	PROJECT NO:	2017040549
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	

POKER LAKE UNIT 20 BD PROPOSED ELECTRIC LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30 FEET WIDE AND 964.75 FEET, 58.47 RODS, OR 0.18 MILES IN LENGTH CROSSING SECTIONS 20 AND 29, TOWNSHIP 25 SOUTH, RANGE 30 EAST N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY, COMPRISING OF 0.67 OF AN ACRE AND DIVIDED IN EACH QUARTER SECTION AS FOLLOWS:

SW/4 SE/4 SECTION 20 = 396.77 FEET = 24.05 RODS = 0.27 OF AN ACRE
SE/4 SE/4 SECTION 20 = 487.79 FEET = 29.56 RODS = 0.34 OF AN ACRE
NW/4 NE/4 SECTION 29 = 80.19 FEET = 4.86 RODS = 0.06 OF AN ACRE

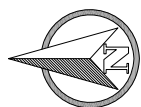
LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 00°00'36" W	426.79'
L2	S 89°17'32" W	50.16'

LINE TABLE "B"

L3	S 00°00'06" W	468.30'
L4	S 89°38'22" W	19.50'

TOTAL LENGTH = 964.75 FEET
OR 58.47 RODS



0 150' 300'
1" = 300 FEET

SECTION 20

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

SECTION 29

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

GENERAL NOTES

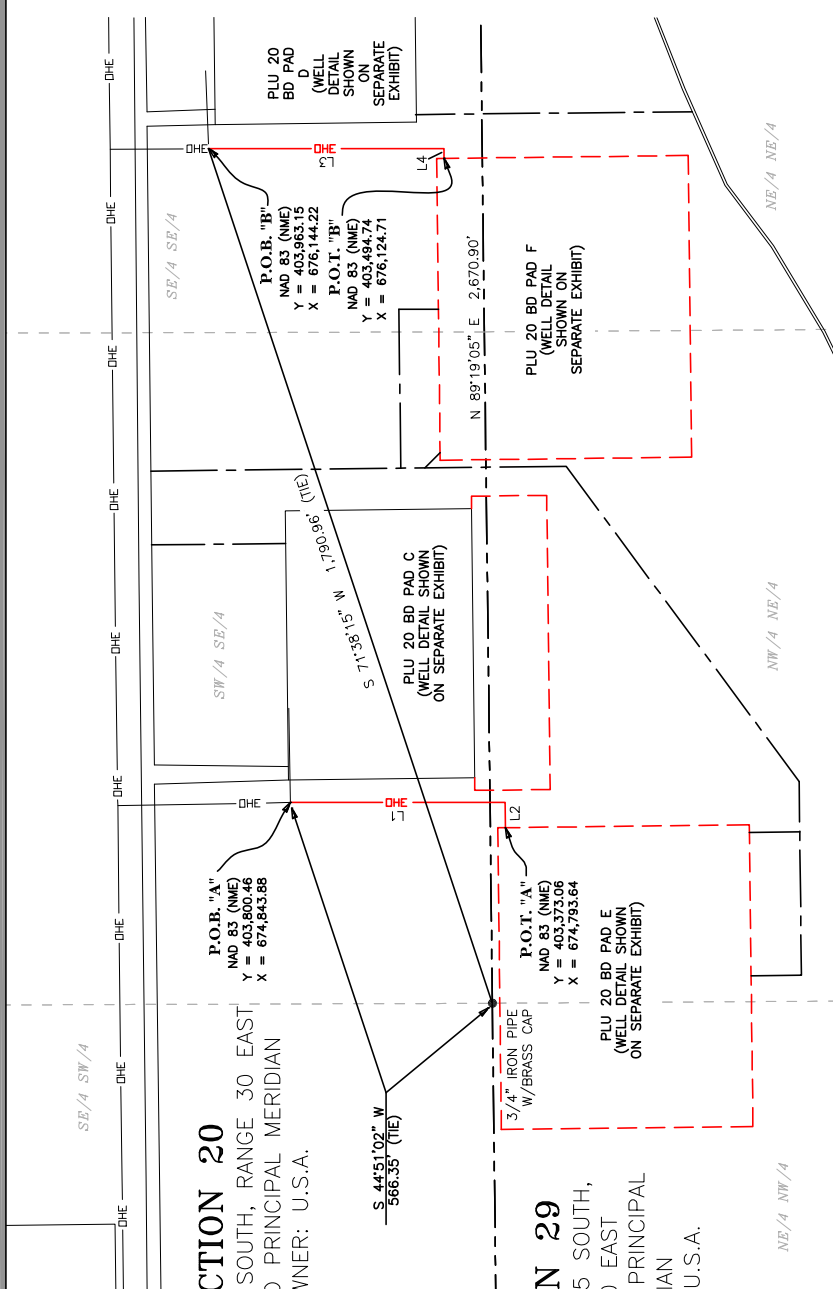
- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM NEW MEXICO EAST ZONE - NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



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Fort Worth, TX 76107
Ph: 817.349.7573 Fax: 817.349.7572
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DATE: 2-20-2025
DRAWN BY: RE/LM
CHECKED BY: GG
FIELD CREW: RE/RD
PROJECT NO: 2017040549
SCALE: 1" = 300'
SHEET: 1 OF 1
REVISION: NO

PLAT OF:
PROPOSED CENTERLINE OF
ELECTRIC LINE EASEMENT FOR:
XTO PERMIAN OPERATING, LLC.
POKER LAKE UNIT 20 BD
SITUATED IN SECTIONS 20 AND 29,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRINCIPAL MERIDIAN,
EDDY COUNTY, NEW MEXICO

**LEGEND**

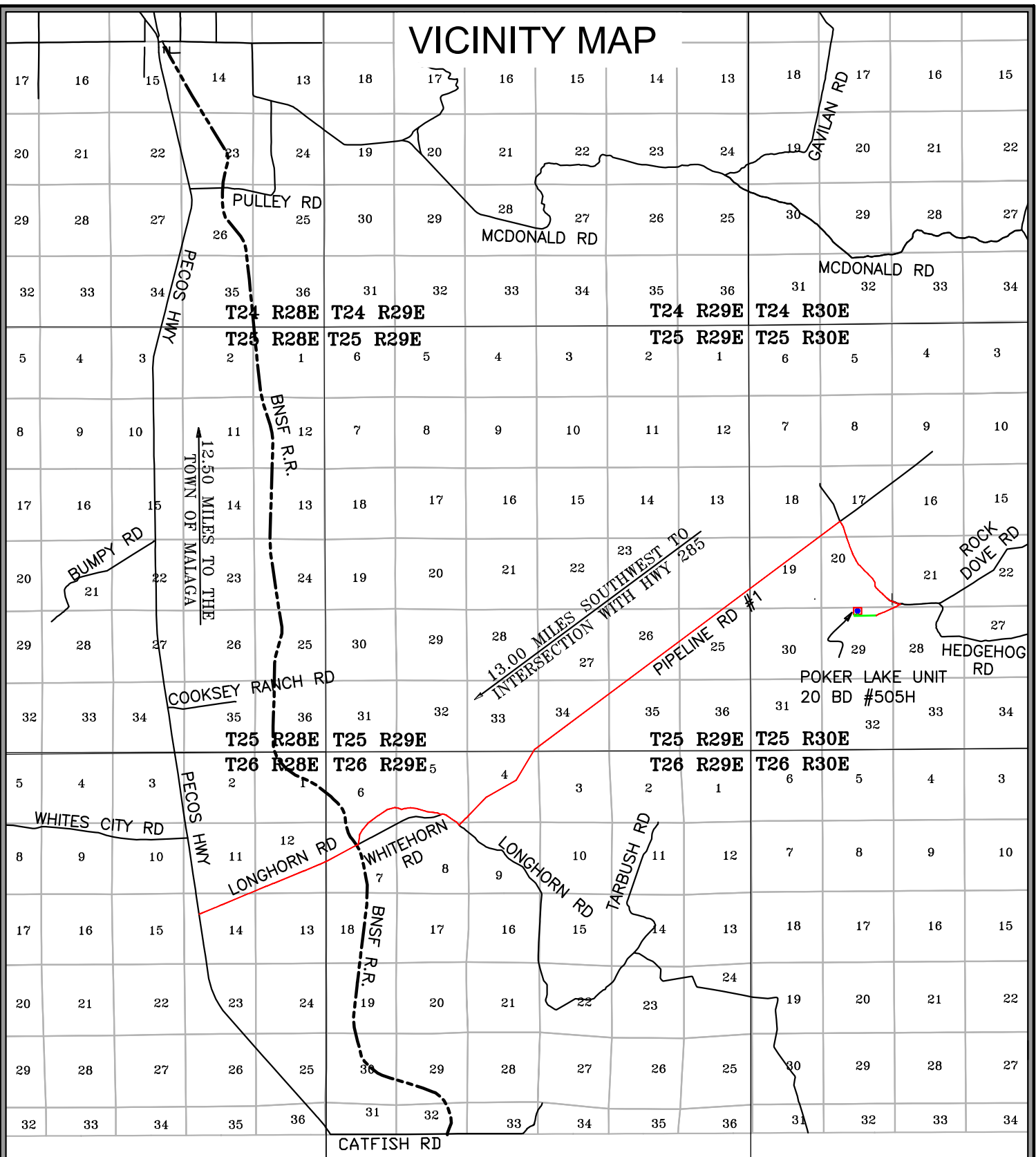
---	SECTION LINE
---	EXISTING PAD
---	EXISTING ROAD
---	EXISTING OVERHEAD ELECTRIC
---	PROPOSED PAD
---	PROPOSED ROAD
---	PROPOSED OVERHEAD ELECTRIC
---	POINT OF BEGINNING
---	P.O.B.
---	POINT OF TERMINUS
---	P.O.T.
---	FOUND MONUMENT AS NOTED

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

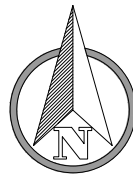
Tim C. Pappas
20 Feb 2025

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

VICINITY MAP



POKER LAKE UNIT 20 BD #505H
 LOCATED 2,573 FEET FROM THE WEST LINE
 AND 295 FEET FROM THE NORTH LINE OF
 SECTION 29, TOWNSHIP 25 SOUTH, RANGE 30
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



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



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DATE: 8-16-2023
 DRAWN BY: AS/CF
 CHECKED BY: CH
 FIELD CREW: RE/RR
 PROJECT NO: 2023040216
 SCALE: 1" = 10,000'
 SHEET: 1 OF 1
 REVISION:

SECTION 20

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

PLU 20 BD
PAD "C"

SE/4 SW/4

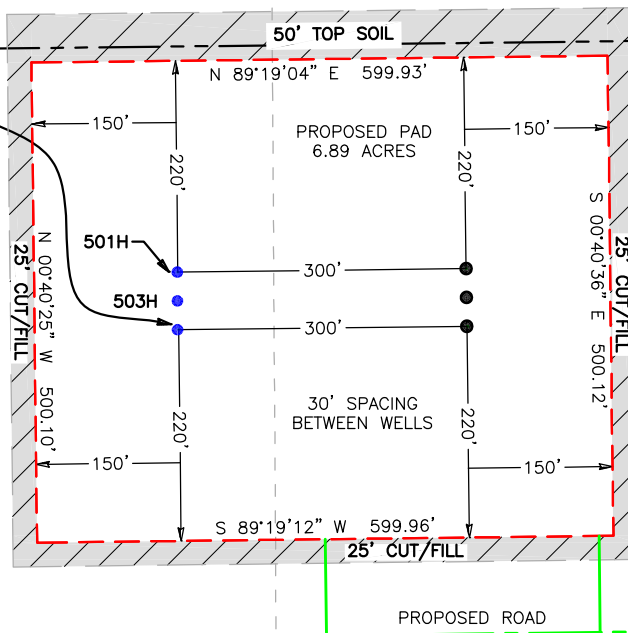
SW/4 SE/4

NE/4 NW/4

POKER LAKE UNIT
20 BD #505H
ELEV.= 3,172'
NAD 83 (NME)
Y= 403,102.6
X= 674,346.9
LAT.= 32.107480
LONG.= 103.903754
NAD 27 (NME)
Y= 403,044.3
X= 633,162.0
LAT.= 32.107355
LONG.= 103.903271

SECTION 29

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

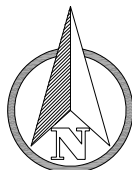


NW/4 NE/4

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.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

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.



0 100' 200'
1" = 200' FEET

**LEGEND**

- PROPOSED PAD
- PROPOSED ROAD
- EXISTING ROAD
- SECTION LINE
- 25' CUT/FILL LINE
- PERMITTED SURFACE HOLE LOCATION
- TBD SURFACE HOLE LOCATION



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

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. 6.9 MILES. TURN RIGHT (SOUTHEAST) ONTO ROCK DOVE ROAD (GRAVEL) FOR APPROX. 1.3 MILES. TURN RIGHT ON TO A GRAVEL ROAD FOR APPROX. 0.9 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.

2821 West 7th Street, Suite 200
Fort Worth, TX 76107

Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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XTO PERMIAN OPERATING, LLC.

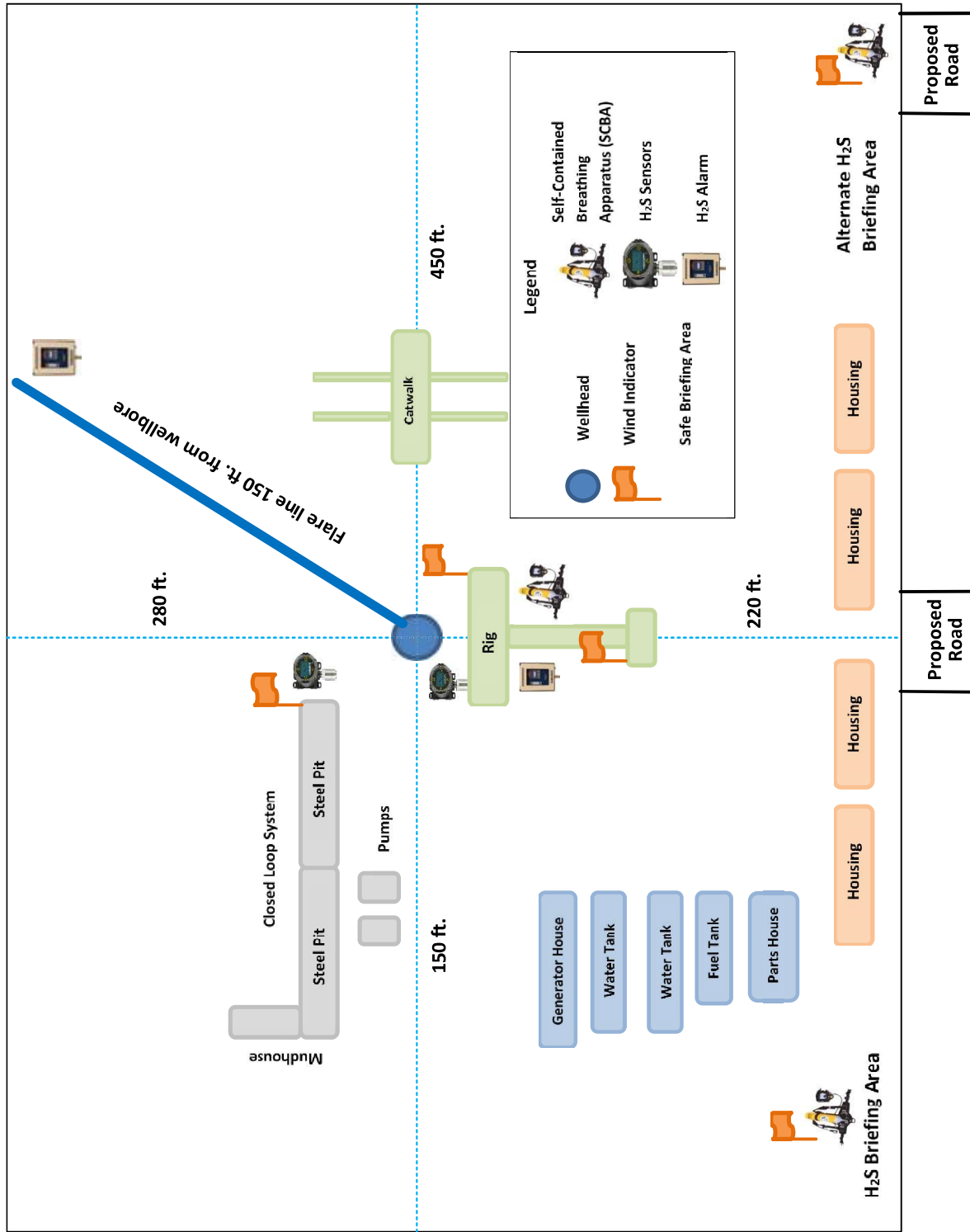
**WELL SITE PLAN
PAD E**

POKER LAKE UNIT 20 BD #505H
LOCATED 2,573 FEET FROM THE WEST LINE
AND 295 FEET FROM THE NORTH LINE OF
SECTION 29, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	2-18-2025	PROJECT NO:	2023040213
DRAWN BY:	AS/CF	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	



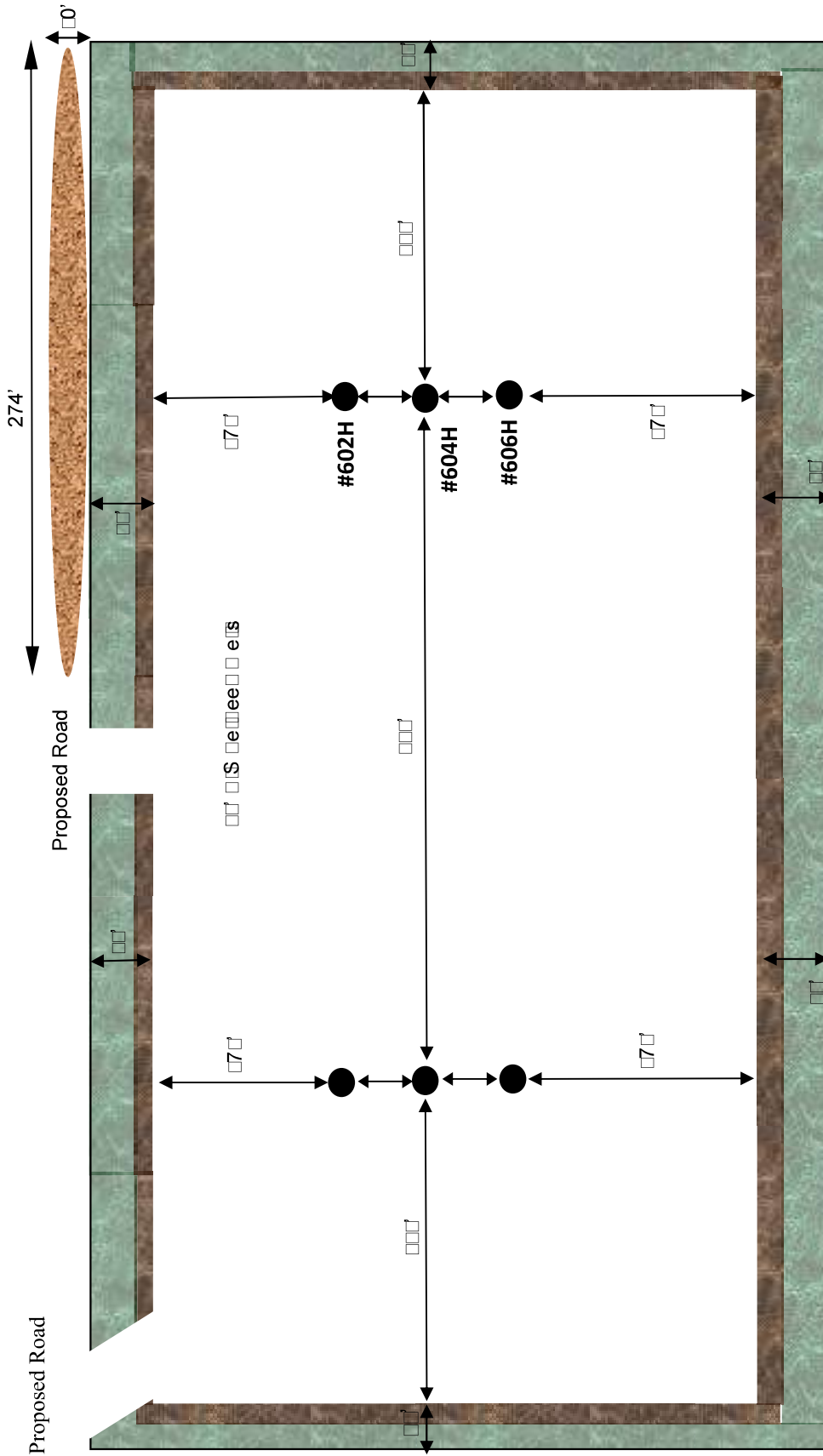
Rig Plat Layout



Interim Reclamation Diagram

Poker Lake Unit 20 BD: 602H, 604H, 606H

All Wells Without Numbers are 'TBD' Allocations for Future Development



LEGEND

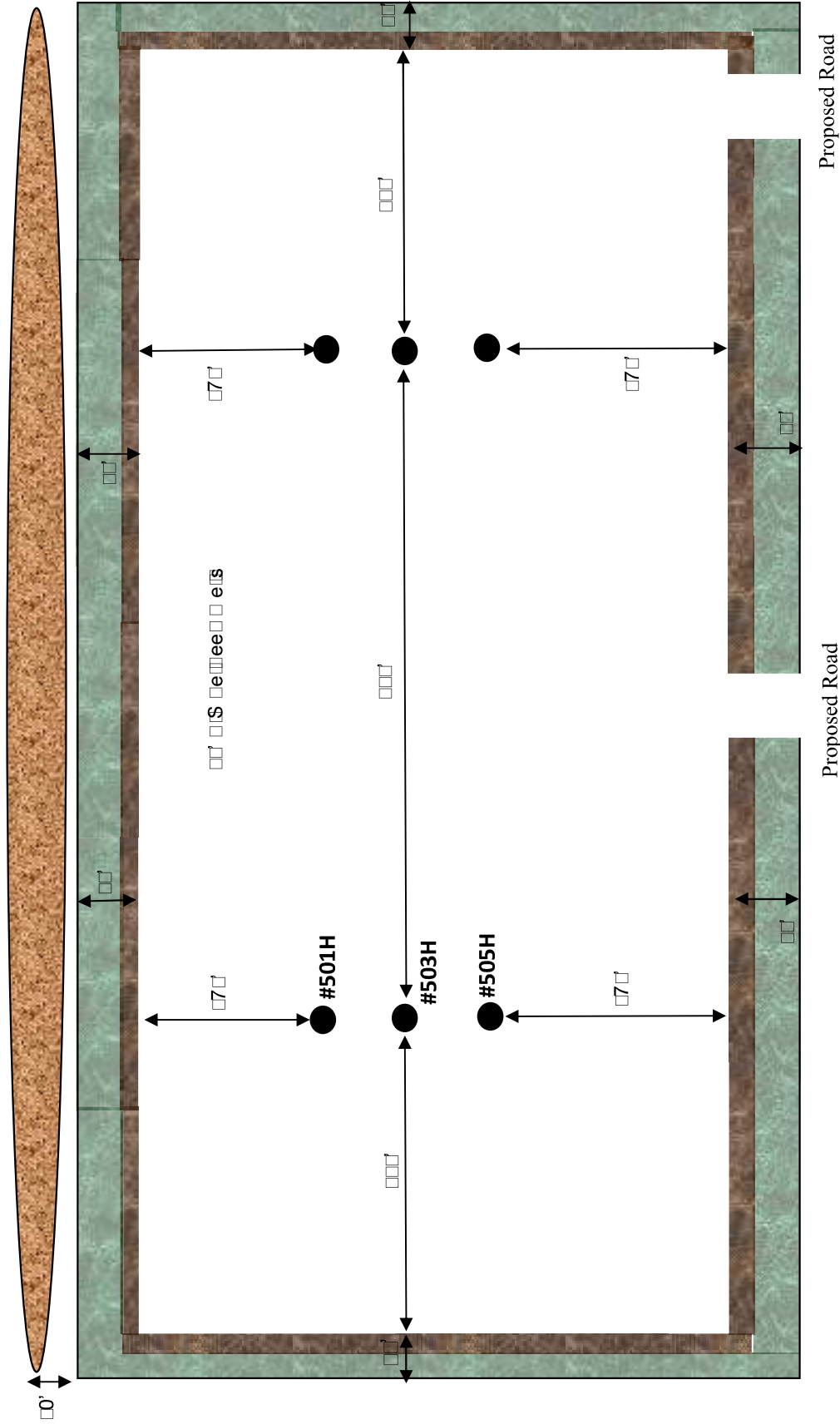
-  N
-  Wellbore
-  Interim Reclamation
-  Ditch & Berm
-  Topsoil

*Diagram Not to Scale

Interim Reclamation Diagram

Poker Lake Unit 20 BD: 501H, 503H, 505H

All Wells Without Numbers are 'TBD' Allocations for Future Development



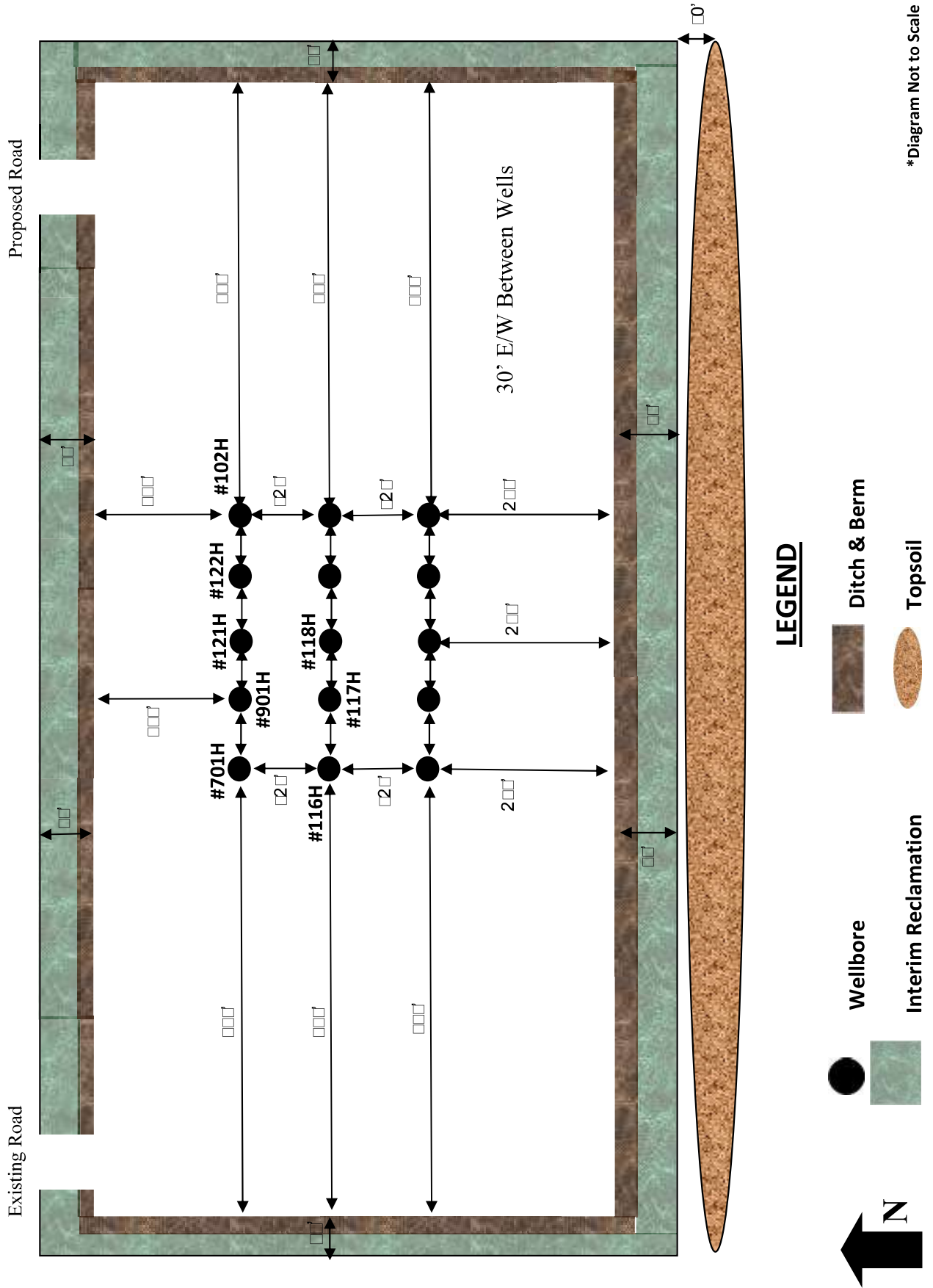
LEGEND

- Wellbore
- Interim Reclamation
- Ditch & Berm
- Topsoil

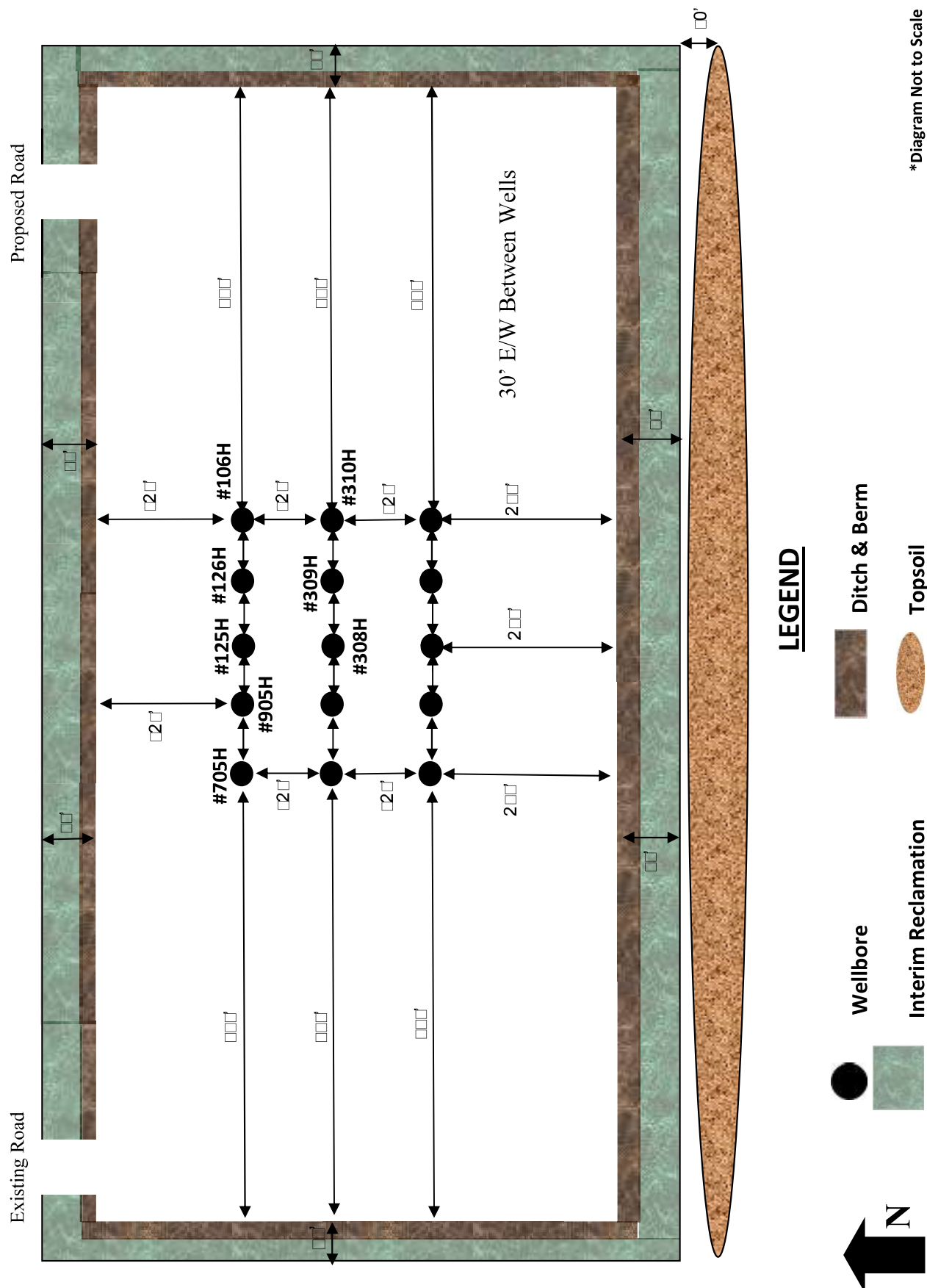
*Diagram Not to Scale

Interim Reclamation Diagram

Poker Lake Unit 20 BD: 116H, 117H, 118H, 121H, 122H, 122H, 122H, 102H
All Wells Without Numbers are 'TBD' Allocations for Future Development



Poker Lake Unit 20 BD: 308H, 309H, 310H, 705H, 905H, 125H, 126H, 106H
All Wells Without Numbers are 'TBD' Allocations for Future Development



***Diagram Not to Scale**

POKER LAKE UNIT 20 BD

Permitted APDs**POKER LAKE UNIT 20 BD #116H: PAD A – B1****Surface Hole Location:** 450' FWL & 205' FSL, SECTION 20, T. 25 S. R. 30 E.**Bottom Hole Location:** 330' FWL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #117H: PAD A – B2****Surface Hole Location:** 480' FWL & 205' FSL, SECTION 20, T. 25 S. R. 30 E.**Bottom Hole Location:** 770' FWL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #118H: PAD A – B3****Surface Hole Location:** 510' FWL & 205' FSL, SECTION 20, T. 25 S. R. 30 E.**Bottom Hole Location:** 1220' FWL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #308H: PAD C – B3****Surface Hole Location:** 1978' FEL & 105' FSL, SECTION 20, T. 25 S. R. 30 E.**Bottom Hole Location:** 2325' FEL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #309H: PAD C – B4****Surface Hole Location:** 1948' FEL & 105' FSL, SECTION 20, T. 25 S. R. 30 E.**Bottom Hole Location:** 1925' FEL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #310H: PAD B – B5****Surface Hole Location:** 1918' FEL & 105' FSL, SECTION 20, T. 25 S. R. 30 E.**Bottom Hole Location:** 1525' FEL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #501H: PAD E – A1****Surface Hole Location:** 2573' FWL & 235' FNL, SECTION 29, T. 25 S. R. 30 E.**Bottom Hole Location:** 1650' FWL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #503H: PAD E – B1****Surface Hole Location:** 2573' FWL & 265' FNL, SECTION 29, T. 25 S. R. 30 E.**Bottom Hole Location:** 2090' FWL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #505H: PAD E – C1****Surface Hole Location:** 2573' FWL & 235' FNL, SECTION 29, T. 25 S. R. 30 E.**Bottom Hole Location:** 2530' FWL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #602H: PAD F – A2****Surface Hole Location:** 1139' FEL & 129' FNL, SECTION 29, T. 25 S. R. 30 E.**Bottom Hole Location:** 1125' FEL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #604H: PAD F – B2****Surface Hole Location:** 1139' FEL & 159' FNL, SECTION 29, T. 25 S. R. 30 E.**Bottom Hole Location:** 725' FEL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.**POKER LAKE UNIT 20 BD #606H: PAD F – C2****Surface Hole Location:** 1139' FEL & 189' FNL, SECTION 29, T. 25 S. R. 30 E.**Bottom Hole Location:** 330' FEL & 50' FSL, SECTION 32, T. 25 S. R. 30 E.

POKER LAKE UNIT 20 BD

Planned APDs

FUTURE WELL #1 PAD A – B4

Surface Hole Location: 540' FWL & 205' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #2 PAD A – B5

Surface Hole Location: 570' FWL & 205' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #3 PAD A – C1

Surface Hole Location: 450' FWL & 80' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #4 PAD A – C2

Surface Hole Location: 480' FWL & 80' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #5 PAD A – C3

Surface Hole Location: 510' FWL & 80' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #6 PAD A – C4

Surface Hole Location: 540' FWL & 80' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #7 PAD A – C5

Surface Hole Location: 570' FWL & 80' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #8 PAD C – B1

Surface Hole Location: 2038' FWL & 105' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #9 PAD C – B2

Surface Hole Location: 2008' FWL & 105' FSL, SECTION 20, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #10 PAD C – C1

Surface Hole Location: 2037' FEL & 20' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

POKER LAKE UNIT 20 BD

FUTURE WELL #11 PAD C – C2

Surface Hole Location: 2007' FEL & 20' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #12 PAD C – C3

Surface Hole Location: 1977' FEL & 20' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #13 PAD C – C4

Surface Hole Location: 1947' FEL & 20' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #14 PAD C – C5

Surface Hole Location: 1917' FEL & 20' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #15 PAD E – A2

Surface Hole Location: 2470' FEL & 235' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #16 PAD E – B2

Surface Hole Location: 2470' FEL & 265' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #17 PAD E – C2

Surface Hole Location: 2470' FEL & 295' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #18 PAD F – A2

Surface Hole Location: 1439' FEL & 129' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #19 PAD F – B2

Surface Hole Location: 1439' FEL & 139' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #20 PAD F – C2

Surface Hole Location: 1439' FEL & 159' FNL, SECTION 29, T. 25 S. R. 30 E.

Bottom Hole Location: To Be Determined

Well Site Locations

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

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

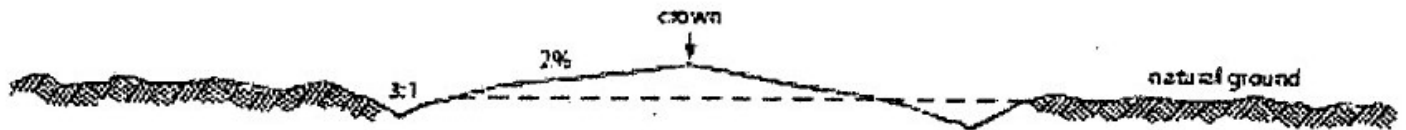
Surface Use Plan

1. Existing Roads

- A. The Poker Lake Unit 20 Brushy Draw area is accessed by existing U.S. Hwy 285 and Longhorn Rd (paved) approximately 2.4 miles. Take slight left and continue on Longhorn Road (paved) for approximately 1.8 miles. Turn left (northeast) onto Pipeline Road #1 (gravel) for approximately 6.9 miles. Locations are to the Southwest. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.'
- B. There are no existing access roads to the proposed Poker Lake Unit 20 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. 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 is a total of approximately 21.7144' or 222 miles of proposed and staked access roads in the Poker Lake Unit 20 Brushy Draw lease area.
- B. **Well Pads.** The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
- C. **Anticipated Traffic.** After well completion, travel to each well site will include one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. 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 Frank's Surveying unless otherwise approved by the BLM and applied for by [redacted] Permian [redacted] Operating [redacted]
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 20 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 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

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

3. Location of Existing Wells

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

4. Ancillary Facilities

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

5. Location of Proposed Production Facilities

- A. **Production Facilities.** Existing Facility.

B. **Flowlines.** In the event the wells are found productive, 4" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the PLU 20 B2 2 est 22B where the oil, gas, and water will be metered and appropriately separated. High pressure gas lines will be buried beneath the surface flowlines per well pad within the proposed lease road corridors for gas lift fuel and water. Oil will be hauled from the location by truck following

existing and proposed lease roads. The distance of proposed flowlines per well will be approximately 2584' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached.

- C. **Gas Pipeline.** A gas purchaser has been identified. Two 110' corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 20 BD West CTB. Permian Operating will be installing the line with anticipated risers located on the CTB. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands.
- D. **Disposal Facilities.** Produced water will be hauled from location to a commercial disposal facility as needed.
- E. **Flare.** There is 1 flare associated with the Poker Lake Unit 20 Brushy Draw project. The flare stack will be 50'x50' located on the PLU 20 BD West Central Tank Battery. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.
- 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 'shale green' that reduce the visual impacts of the built environment.
- G. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- H. **Electrical.** All electrical poles and lines will be placed within existing and proposed lease roads corridors. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 25' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company:
Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to Permian Operating from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for Permian Operating at time of drilling and completion, then XTO Permian Operating LLC. water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5 bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that

may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

7. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations:
 - a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E NESW
 - b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E SWSW

8. Methods for Handling Waste

- **Cuttings.** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids.** These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- **Produced Fluids.** Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage.** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris.** Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
 - i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
 - ii. Permian Operating and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as

hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any 'hazardous waste' as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.

- iii. No hazardous substances or wastes will be stored on the location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

9. Well Site Layout

- A. **Rig Plat Diagrams:** There are 4 multi-well pads in the Poker Lake Unit 20 Brushy Draw lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:
 - 1. Pad A is a 15-well pad expected to be 550'x760'.
 - 2. Pad C is a 15-well pad expected to be 535'x730'.
 - 3. Pad E is a 6-well pad expected to be 600'x500'.
 - 4. Pad F is a 6-well pad expected to be 600'x500'.

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

- B. **V-Door Orientation:** These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with Fernando Banos, BLM Natural Resource Specialist, present at on-site inspection.
 - 1. Pad A has a V-Door Orientation of West.
 - 2. Pad C has a V-Door Orientation of West.
 - 3. Pad E has a V-Door Orientation of East.
 - 4. Pad F has a V-Door Orientation of East.
- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

10. Plans for Surface Reclamation:

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

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

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

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

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, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

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

Seeding:

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

11. Surface Ownership

- A. Within the Poker Lake Unit 20 Brushy Draw project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information

Changes from Notice of Staking / Onsite

- **Well Numbers**. The 1000 and 1200 series well numbers have changed from 4-digit to 3-digit due to NMOCD requirements from the original Notice of Staking. This was done by dropping the 3rd '0' out of the well number. The 700 and 900 wells, being originally 3-digits, remain unchanged.

See reference table for appropriate well number changes.

Notice of Staking Well Number	APD Well Number
1002H	102H
1004H	104H
1006H	106H
1008H	108H
1201H	121H
1202H	122H
1203H	123H
1204H	124H
1205H	121H
1206H	124H
1207H	127H
1208H	128H

Surveying

- **Well Sites.** Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Fernando Banos, Bureau of Land Management Natural Resource Specialist in attendance. Pads 1 & 2 were restaked with Colleen Cepero-Rios after APD submittal and moved due to FEMA flood plain.
- **Cultural Resources – Archaeology:** A Class III Cultural Resources Examination has been completed on all wells by Boone Archaeological Services and the results will be forwarded to the BLM Office. A copy of the report is also included as an attachment to this APD.
- **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

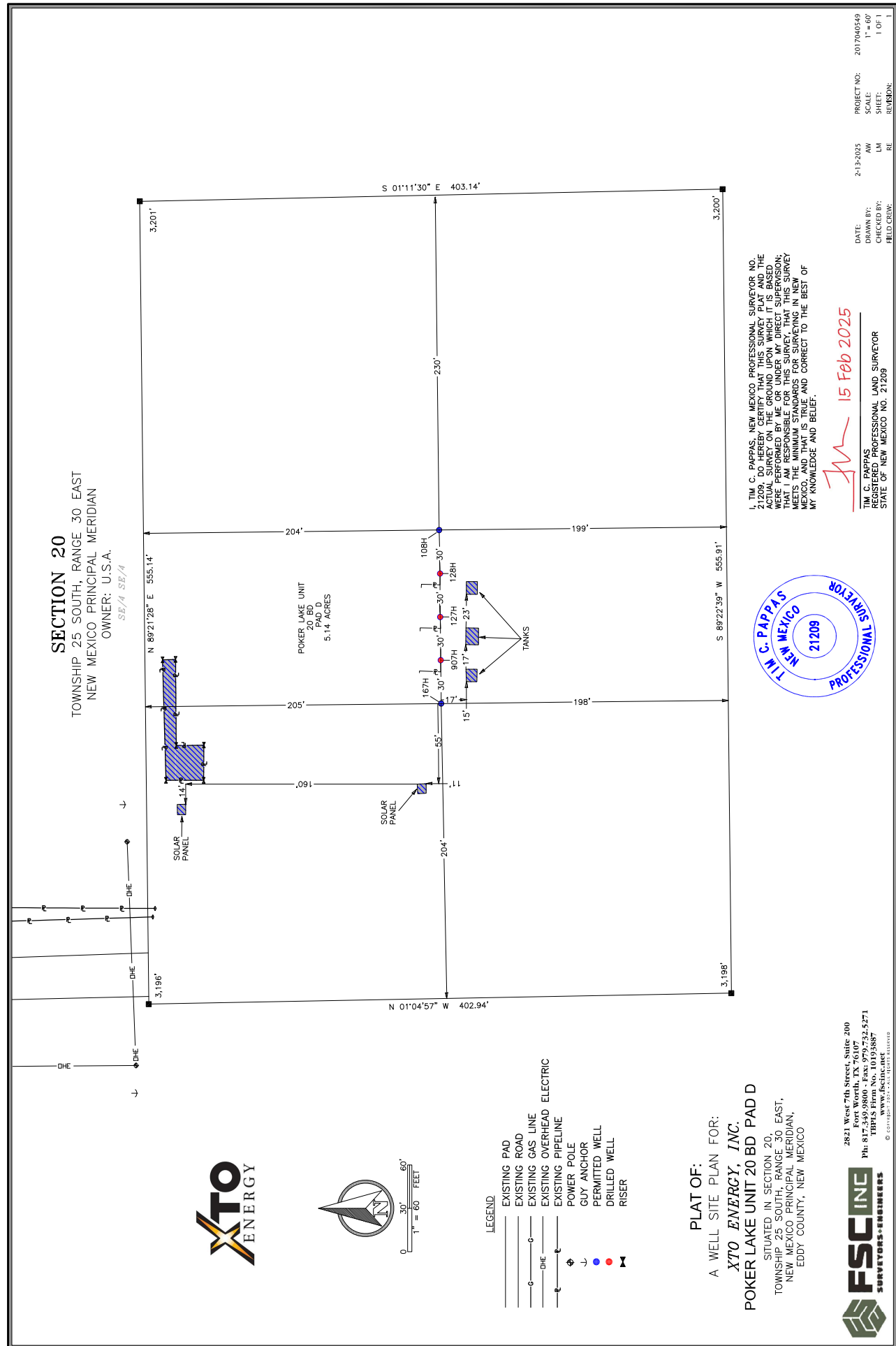
Operator's Representatives:

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

One Site: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 10/05/2022.



SECTION 20

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

PLU 20 BD
PAD "C"

SW/4 SE/4

SE/4 SW/4

NE/4 NW/4

Y=403,381.00
X=674,193.58
LAT=32.108247°N
LONG=103.904246°W

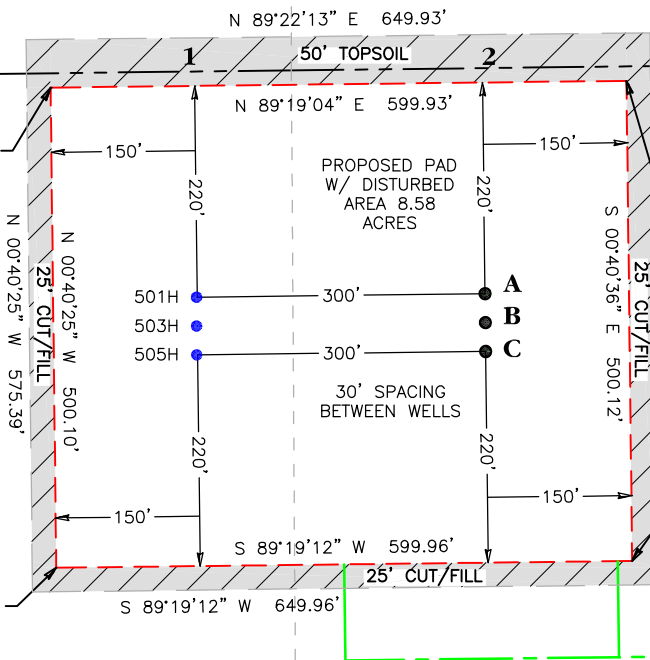
Y=403,388.14
X=674,793.47
LAT=32.108260°N
LONG=103.902308°W

NW/4 NE/4

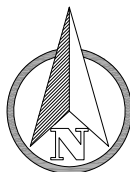
Y=402,888.06
X=674,799.37
LAT=32.106885°N
LONG=103.902296°W

Y=402,880.94
X=674,199.46
LAT=32.106872°N
LONG=103.904233°W

SECTION 29
TOWNSHIP 25 SOUTH,
RANGE 30 EAST
NEW MEXICO PRINCIPAL
MERIDIAN
OWNER: U.S.A.

**GENERAL NOTES**

1. 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.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



0 100' 200'
1" = 200 FEET

LEGEND

- PROPOSED PAD
- PROPOSED PAD EXTENSION
- PROPOSED ACCESS ROAD
- EXISTING PAD
- SECTION LINE
- PERMITTED WELL
- TBD WELL

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 15 Feb 2025

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



2821 West 7th Street, Suite 200
Fort Worth, TX 76107
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**XTO PERMIAN
OPERATING, LLC.**

**WELL SITE PLAN
POKER LAKE UNIT 20 BD**

PAD E

DATE:	2-13-2025	PROJECT NO:	2017040549
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RD	REVISION:	4

SECTION 20

TOWNSHIP 25 SOUTH, RANGE 30 EAST

NEW MEXICO PRINCIPAL MERIDIAN

OWNER: U.S.A.

PLU 20 BD
PAD "C"

Y=403,502.57
X=675,524.56
LAT=32.108566°N
LONG=103.899946°W

N 00°00'00" W
25.00'

N 89°19'15" E 274.40'

25' CUT/FILL

N 89°19'15" E 600.01'

PLU 20 BD
PAD "D"

Y=403,509.69
X=676,124.53
LAT=32.108579°N
LONG=103.898008°W

NE/4 NE/4

SECTION 29

TOWNSHIP 25 SOUTH,
RANGE 30 EAST
NEW MEXICO PRINCIPAL

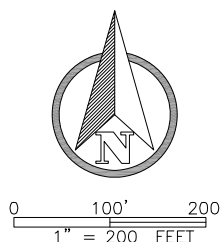
MERIDIAN

OWNER: U.S.A.

Y=403,009.64
X=676,130.51
LAT=32.107205°N
LONG=103.897995°W

GENERAL NOTES

1. 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.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



LEGEND

- 
- PROPOSED PAD
 - PROPOSED PAD EXTENSION
 - PROPOSED ACCESS ROAD
 - EXISTING PAD
 - EXISTING ROAD
 - SECTION LINE
 - PERMITTED WELL
 - TBD WELL

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
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209



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*XTO PERMIAN
OPERATING, LLC.*

WELL SITE PLAN

POKER LAKE UNIT 20 BD

 $PAD \quad F'$

DATE:	2-13-2025	PROJECT NO:	2017040549
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RD	REVISION:	4



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

PWD Data Report

03/28/2025

APD ID: 10400095829

Submission Date: 11/20/2023

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Is the reclamation bond a rider under the BLM bond?****Unlined pit bond number:****Unlined pit bond amount:****Additional bond information****Section 4 -****Would you like to utilize Injection PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection****Underground Injection Control (UIC) Permit?****UIC Permit****Section 5 - Surface****Would you like to utilize Surface Discharge PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:****Section 6 -****Would you like to utilize Other PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD discharge volume (bbl/day):**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20 BD

Well Number: 505H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

03/28/2025

APD ID: 10400095829**Submission Date:** 11/20/2023**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 20 BD**Well Number:** 505H**Well Type:** OIL WELL**Well Work Type:** Drill

Highlighted data
reflects the most
recent changes

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 446773

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 446773
	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.	3/28/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/28/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	4/28/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/28/2025
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.	4/28/2025
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.	4/28/2025
ward.rikala	Administrative order required for non-standard location prior to production.	4/28/2025
ward.rikala	Administrative order required for non-standard spacing unit prior to production.	4/28/2025