Bureau of Land Management

### **AFMSS**

# Application for Permit to Drill

**APD Package Report** 

APD ID: 10400100953

APD Received Date: 09/24/2024 09:14 AM

Operator: XTO PERMIAN OPERATING LLC

Date Printed: 05/19/2025 03:39 PM

Received by OCD: 9/19/2025 11:12:41 AM

Well Name: POKER LAKE UNIT 20-8 BD Well Status: AAPD

Well Number: 204H

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

1 file(s) -- Blowout Prevention Choke Diagram Attachment:

-- Blowout Prevention BOP Diagram Attachment: 1 file(s)

Casing Spec Documents: 2 file(s)

Casing Taperd String Specs: 1 file(s)

Casing Design Assumptions and Worksheet(s): 1 file(s)

Hydrogen sulfide drilling operations plan: 1 file(s)

-- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)

Other Facets: 4 file(s)

-- Other Variances: 4 file(s)

SUPO Report

- SUPO Attachments

-- Existing Road Map: 1 file(s)

-- Attach Well map: 1 file(s)

-- Production Facilities map: 1 file(s)

-- Water source and transportation map: 1 file(s) -- Well Site Layout Diagram: 2 file(s)

Recontouring attachment: 2 file(s)

-- Other SUPO Attachment: 1 file(s)

- PWD Report

- PWD Attachments

-- None

Released to Imaging: 9/19<mark>/2025 2:16:21 P</mark>M

Bond ReportBond AttachmentsNone

\*(Instructions on page 2)

Form 3160-3 (June 2015) UNITED STATES		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018
DEPARTMENT OF THE INTERIOR RIPEALLOF I AND MANAGEMENT	ITERIOR	5. Lease Serial No. NMLC064894
APPLICATION FOR PERMIT TO DRILL OR REENTER	AILL OR REENTER	6. If Indian, Allotee or Tribe Name
		<b>&lt;</b>
17m - 0	REENTER	7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT
letion: Hydraulic Fracturing	Single Zone V Multiple Zone	8. Lease Name and Well No. POKER LAKE UNIT 20-8 BD
		204H
2. Name of Operator		9. API Well No.
XIO PERMIAN OPERALING LLC		
3a. Address   3b. Phone No. (ii)   4401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970   (432) 683-2277	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool, or Exploratory CORRAL CANYON/BONE SPRING
4. Location of Well (Report location clearly and in accordance with any State requirements.*)	ith any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area
At surface NESW / 1431 FSL / 1994 FWL / LAT 32.112214 / LONG -103.905629	214 / LONG -103.905629	SEC 20/T25S/R30E/NMP
At proposed prod. zone NESW / 2649 FSL / 1895 FWL / LAT 32.144788 / LONG -103.905974	-AT 32.144788 / LONG -103.905974	
14. Distance in miles and direction from nearest town or post office*	*30	12. County or Parish 13. State EDDY NM
15. Distance from proposed*	16. No of acres in lease 17. Spacii	17. Spacing Unit dedicated to this well

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)

24. Attachments

23. Estimated duration 45 days

22. Approximate date work will start\* 10/16/2025

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

3174 feet

18. Distance from proposed location\* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.

(Also to nearest drig. unit line, if any)

property or lease line, ft.

20, BLM/BIA Bond No. in file

400.0

1431 feet

FED: COB000050

9452 feet / 23473 feet

19. Proposed Depth

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

25. Signature		Name (Printed/Typed)	Date
(Electronic Submission)		SAMANTHA WEIS / Ph: (432) 682-8873	09/24/2024
Title			

Permitting Advisor

Approved by (Signature) (Electronic Submission)	Name ( <i>Printed/Typed</i> ) CODY LAYTON / Ph: (575) 234-5959	Date 05/19/2025
Title Assistant Field Manager Lands & Minerals	Office Carlsbad Field Office	

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

Conditions of approval, if any, are attached.

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



(Continued on page 2)

### INSTRUCTIONS

Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with from local Federal offices. ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions. ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

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

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

### NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2,48(d) provide that you be furnished the following information in connection with information required by this application.

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

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 PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, subsurface water and other environmental impacts.

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

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 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-The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with sponsored information collection unless it displays a currently valid OMB control number.

including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, LS, Washington, D.C. 20240. (Form 3160-3, page 2)

Approval Date: 05/19/2025

## Additional Operator Remarks

### Location of Well

BHL: NESW / 2649 FSL / 1895 FWL / TWSP: 25S / RANGE: 30E / SECTION: 8 / LAT: 32.144788 / LONG: -103.905974 (TVD: 9452 feet, MD: 23473 feet) PPP: SESW / 100 FSL / 1885 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108552 / LONG: -103.905947 ( TVD: 9452 feet, MD: 10300 feet ) PPP: NENW / 0 FNL / 1897 FWL / TWSP: 25S / RANGE: 30E / SECTION: 17 / LAT: 32.137506 / LONG: -103.905969 (TVD: 9452 feet, MD: 15500 feet) 0. SHL: NESW / 1431 FSL / 1994 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.112214 / LONG: -103.905629 ( TVD: 0 feet, MD: 0 feet )

### **BLM Point of Contact**

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov



Approval Date: 05/19/2025

### Review and Appeal Rights

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



### PECOS DISTRICT SURFACE USE

CONDITIONS OF APPROVAL

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

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

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

ш 30 **POKER LAKE UNIT 20-17 BD #202H**: PAD B – E2 Surface Hole Location: 1,934' FWL & 1,433' FSL, SECTION 20, T. 25 S. R. Bottom Hole Location: 800' FWL & 10' FNL, SECTION 17, T. 25 S. R. 30 E.

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

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

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

30 E 30 E. Surface Hole Location: 1,994' FWL & 1,431' FSL, SECTION 20, T. 25 S. R. Bottom Hole Location: 1,895' FWL & 2,649' FSL, SECTION 8, T. 25 S. R. 3(

30 E. **POKER LAKE UNIT 20-8 BD #205H:** PAD B – E5 Surface Hole Location: 2,024' FWL & 1,431' FSL, SECTION 20, T. 25 S. R. 30 Bottom Hole Location: 2,544' FEL & 2,650' FSL, SECTION 8, T. 25 S. R. 30 E.

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

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

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

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

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

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

POKER LAKE UNIT 20-8 BD #209H: PAD D – B8 Surface Hole Location: 1,514' FEL & 1,813' FSL, SECTION 20, T. 25 S. R Bottom Hole Location: 177' FEL & 10' FNL, SECTION 8, T. 25 S. R. 30 E.

R 30 E

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

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

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## GENERAL PROVISIONS

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

# ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, 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 responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be 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 by the Authorized Officer after consulting with the operator.

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 Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing after the project's approval, the BLM Authorized Officer will notify the operator of the following traditional, religious, and cultural significance tied to a certain group of individuals. Though there are conditions and the duration for which these conditions are required.

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

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

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

## 1.2. RANGELAND RESOURCES

### 2.1. Cattleguards

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

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A gate shall be constructed on one side of the cattleguard and fastened securely to Hlease operations.

### 1.2.2. Fence Requirement

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 Where entry granted across a fence line, the fence must be braced and tied off on both sides of the crossing any fence(s).

## 1.2.3. Livestock Watering Requirement

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 Any damage to structures that provide water to livestock throughout the life of the well, caused by damage occurs to structures that provide water to livestock.

### .3. NOXIOUS WEEDS

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

## 1.3.1 African Rue (Peganum harmala)

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

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

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### 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.

# . SPECIAL REQUIREMENTS

### .1. WATERSHED

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

### 2.1.1. Tank Battery

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

### 2.1.2. Buried/Surface Line(s)

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

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 Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

### 2.1.3. Electric Line(s)

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

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# 2.1.4. Temporary Use Fresh Water Frac Line(s)

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

# 2.3 VISUAL RESOURCE MANAGEMENT

### SIVEMIN

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

# 3. CONSTRUCTION REQUIRENMENTS

# 1 CONSTRCUTION NOTIFICATION

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

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

### .2 TOPSOIL

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

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

## 3 CLOSED LOOP SYSTEM

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

## 4 FEDERAL MINERAL PIT

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

## 3.5 WELL PAD & SURFACING

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

# 3.6 EXCLOSURE FENCING (CELLARS & PITS)

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

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

### 1 BURIED PIPELINES

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

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

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

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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.)

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- 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.)
- The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be 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 9 stripped is approximately preparation of seeding. ∞:
- surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the 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 ditch line to allow for settling back to grade. 6
- and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor 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. 10.
- determined necessary by the Authorized Officer in consultation with the operator before maintenance The operator shall not use the pipeline route as a road for purposes other than routine maintenance as used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not may ask the operator to construct temporary deterrence structures. Ξ.
- 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 operations. Weed control shall be required on the disturbed land where noxious weeds exist, which The operator shall be held responsible if noxious weeds become established within the areas of methods, which include following EPA and BLM requirements and policies. 12.
- 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: Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not 13.
- before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove Any trench left open for eight (8) hours or less is not required to have escape ramps; however, all trapped wildlife, and release them alive at least 100 yards from the trench.
- trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a wildlife, and release them alive at least 100 yards from the trench. 6

## 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:

- 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. \_:
- amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any or stored on the pipeline corridoror on facilities authorized under this APD (see 40 CFR, Part 702-799 Federal agency or State government as a result of a reportable release or spill of any toxic substances promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 Compensation, and Liability Act, section 102b. A copy of any report required or requested by any CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Federal agency or State government.  $\vec{c}$
- Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or 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 without regard to whether a release is caused by Operator, its agent, or unrelated third parties.  $\ddot{\omega}$
- Sec. 2883.1-4. Operator shall be held to a standard of strict liability for damage or injury to the United Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the pipeline corridor or permit area: 4.
- Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility; ä.
- b. Activities of other parties including, but not limited to:
- (1) Land clearing
- .) Earth-disturbing and earth-moving work
- (2) Earth-dis(3) Blasting
- (4) Vandalism and sabotage
- 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. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever aquatic environment and fish and wildlife habitats, at the full expense of Operator. Such action by the found, shall be the responsibility of Operator, regardless of fault. Upon failure of Operator to control, necessary to control and clean up the discharge and restore the area, including, where appropriate, the dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting salt water, or other pollutant is discharged from the pipeline system, impacting Federal lands, the therefrom, on the Federal lands, the Authorized Officer may take such measures as they deem Authorized Officer shall not relieve Operator of any responsibility as provided herein. ς.

- 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 immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be 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 confined to existing roads or pipeline corridors. 9
- No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer. ۲.
- Operator shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features. ∞.
- 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 The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. remaining in the road surface. 6
- improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be The operator is required to promptly repair improvements to at least their former state. Functional use The operator shall minimize disturbance to existing fences and other improvements on public lands. of these improvements will be maintained at all times. The operator will contact the owner of any braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer. 10.
- will install such structures as are suitable for the specific soil conditions being encountered and which In those areas where erosion control structures are required to stabilize soil conditions, the operator are in accordance with sound resource management practices. Ξ:
- simulates "Standard Environmental Colors" Shale Green, Munsell Soil Color No. 5Y 4/2; designated 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 by the Rocky Mountain Five State Interagency Committee. 12.
- and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor the product being transported. Signs will be maintained in a legible condition for the life of the 13.
- 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. 4.
- includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to operations. Weed control shall be required on the disturbed land where noxious weeds exist, which The operator shall be held responsible if noxious weeds become established within the areas of this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies. 15.
- Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi. 16.

# 4.3 RANGELAND MITIGATION FOR PIPELINES

### 4.5.1 Fence Requirement

prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the 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 are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they 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.

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 Any damage to structures that provide water to livestock throughout the life of the well, caused by 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.
- the open trench to allow passage across the trench and provide a means of escape for livestock and 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 wildlife that may enter the trench.
- Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The feet intervals and sloped no more than 45 degrees.

# OVERHEAD ELECTRIC LINES

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

- 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.
- corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR used, generated by or stored on the powerline corridor or on facilities authorized under this powerline 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 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the The operator shall comply with all applicable Federal laws and regulations existing or hereafter reportable quantity established by 40 CFR, Part 117 shall be reported as required by the  $\vec{c}$

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- 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 Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. filing of the reports to the involved Federal agency or State government.
- The operator agrees to indemnify the United States against any liability arising from the release of any Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the applies without regard to whether a release is caused by the operator, its agent, or unrelated third the release or threatened release is wholly unrelated to the operator's activity on the powerline hazardous substance or hazardous waste (as these terms are defined in the Comprehensive  $\ddot{\omega}$
- There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer. 4.
- placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, Such modifications and/or additions shall be made by the operator without liability or expense to the The BLM reserves the right to require modification or additions to all powerline structures roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized APLIC, and the California Energy Commission 2006. The operator shall assume the burden and Power lines shall be constructed and designed in accordance to standards outlined in "Suggested expense of proving that pole designs not shown in the above publication deter raptor perching, United States. Ś.
- 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. 9
- The operator is required to promptly repair improvements to at least their former state. Functional use improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall The operator shall minimize disturbance to existing fences and other improvements on public lands. of these improvements will be maintained at all times. The operator will contact the owner of any 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. ۲.
- manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous inches high and will be affixed to the pole nearest the road crossing and at the facilities served  $\infty$
- Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer. 9.
- days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 This will not apply where the power line extends service to an active, adjoining facility or facilities. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of 10
- 11. Special Stipulations:
- For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.



# 5. PRODUCTION (POST DRILLING)

# 5.1 WELL STRUCTURES & FACILITIES

## 5.1.1 Placement of Production Facilities

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

## 5.1.2 Exclosure Netting (Open-top Tanks)

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

# 5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

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

## 5.1.4. Open-Vent Exhaust Stack Exclosures

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

### 5.1.5. Containment Structures

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

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### 6. RECLAMATION

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

# 6.1 ROAD AND SITE RECLAMATION

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

### 6.2 EROSION CONTROL

down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches 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 perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed 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 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

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.

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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.

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

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

# 6.6 SOIL SPECIFIC SEED MIXTURE

Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance 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 The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. with State law(s) and available for inspection by the Authorized Officer.

uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is Seed land application will be accomplished by mechanical planting using a drill equipped with a depth 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

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### Seed Mixture 2, for Sandy Site

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

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

\*Pounds of pure live seed:

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

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Approval Date: 05/19/2025

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## DRILLING CONDITIONS OF APPROVAL PECOS DISTRICT

OPERATOR'S NAME: XTO	XTO
LEASE NO.:	LEASE NO.: NMLC064894
LOCATION:	<b>LOCATION:</b> Sec. 20, T.25 S, R 30 E
COUNTY:	COUNTY: Eddy County, New Mexico ▼
WELL NAME & NO.:	WELL NAME & NO.: Poker Lake Unit 20-8 BD 204H
<b>SURFACE HOLE FOOTAGE:</b> 1431'/S & 1994'/W	1431'/S & 1994'/W
<b>BOTTOM HOLE FOOTAGE:</b> 2649'/S & 1895'/W	2649'/S & 1895'/W

COA

$H_2S$	0	○ No	<b>③</b>	<ul><li>Yes</li></ul>
Potash /	e None	© Secretary	C R-111-Q	Open Annulus
WIPP	Choose	Choose an option (including blank option.)	nk option.)	☐ WIPP
Cave / Karst	MOT ⊚	© Medium	C High	C Critical
Wellhead	C Conventional	<ul><li>Multibowl</li></ul>	C Both	© Diverter
Cementing	🔽 Primary Squeeze	🗖 Cont. Squeeze	🗷 EchoMeter	DV Tool
Special Red	🔲 Capitan Reef	Water Disposal	$\square$ COM	🗷 Unit
Waste Prev.	C Self-Certification	<ul> <li>Waste Min. Plan</li> </ul>	© APD Submitted prior to 06/10/2024	rior to 06/10/2024
Additional	Flex Hose	Casing Clearance	Pilot Hole	▼ Break Testing
Language	Four-String	Offline Cementing	Fluid-Filled	

## A. HYDROGEN SULFIDE

Delaware formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the 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

- (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and The 9-5/8 inch surface casing shall be set at approximately 1150 feet (a minimum of 70 feet cemented to the surface.
- 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 If cement does not circulate to the surface, the appropriate BLM office shall be cement and ideally between 8-10 hours after completing the cement job. ä.
- 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 Ъ.

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lead cement)

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- bringing cement to surface or 500 pounds compressive strength, whichever is greater. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after ပ
  - If cement falls back, remedial cementing will be done prior to drilling out that string.
- 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. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 6182' ä.
- notified. Wait on cement (WOC) time for a primary cement job is to include the 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 lead cement slurry due to cave/karst. Ъ.

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

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

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

### PRESSURE CONTROL

- specification to be readily available. No external damage to flex line. Flex line to be installed Variance approved to use flex line from BOP to choke manifold. Manufacturer's as straight as possible (no hard bends).
- blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the casing shoe shall be 5000 (5M) psi.  $\ddot{c}$
- Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry. ಚ.
- monitor the temperature to verify that it does not exceed the maximum temperature of If the welding is performed by a third party, the manufacturer's representative shall 6
- Manufacturer representative shall install the test plug for the initial BOP test.
- 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. ن ن
  - Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed. ö

## 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.
- Any well control event while drilling require notification to the BLM Petroleum Engineer While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or
  - (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- any subsequent hole interval is deeper than the first, a full BOPE test will be required. A full BOPE test is required prior to drilling the first deep intermediate hole section. (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

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

# GENERAL REOUIREMENTS

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

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

Ъ.

# Contact Eddy County Petroleum Engineering Inspection Staff:

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

- plugged, the drilling rig shall not be removed from over the hole without prior approval. Unless the production casing has been run and cemented or the well has been properly
- rating to the wellhead and a pressure gauge that can be monitored while drilling is installing and testing the wellhead, by installing a blind flange of like pressure skid/walking rig. Operator shall secure the wellbore on the current well, after In the event the operator has proposed to drill multiple wells utilizing a performed on the other well(s).
- When the operator proposes to set surface casing with Spudder Rig 6
- Notify the BLM when moving in and removing the Spudder Rig.
- Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
- BOP/BOPE test to be conducted per 43 CFR 3172 as soon as 2<sup>nd</sup> Rig is rigged up on well. ΞΞ.
- during drilling and/or completion activities. Rig floor is defined as the area immediately Floor controls are required for 3M or Greater systems. These controls will be on the rig around the rotary table; the area immediately above the substructure on which the draw floor, unobstructed, readily accessible to the driller and will be operational at all times works are located, this does not include the dog house or stairway area.  $\ddot{c}$
- 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.  $\ddot{\circ}$

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

Page 5 of 9

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

## 3. PRESSURE CONTROL

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

Page 6 of 9

aydrostatic 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 equirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and

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- match. The remote kill line is to be installed prior to testing the system and tested 5M or higher system requires an HCR valve, remote kill line and annular to to stack pressure. 3
- If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met: 4.
- Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- representative shall monitor the temperature to verify that it does not If the welding is performed by a third party, the manufacturer's exceed the maximum temperature of the seal. :≓
- Manufacturer representative shall install the test plug for the initial BOP ΞΞ.
- Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed. .<u>.</u>
- 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. >
- The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests. ۶.
- four hours after installing the slips, which will be approximately six hours BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi In a water basin, for all casing strings utilizing slips, these are to be set as minimum wait time before cut-off is eight hours after bumping the plug. has been done. The casing cut-off and BOP installation can be initiated soon as the crew and rig are ready and any fallback cement remediation after bumping the plug. For those casing strings not using slips, the 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).
- can be initiated at twelve hours after bumping the cement plug. The BOPE has been done. For all casing strings, casing cut-off and BOP installation In potash areas, for all casing strings utilizing slips, these are to be set as test can be initiated after bumping the cement plug with the casing valve soon as the crew and rig are ready and any fallback cement remediation :≓

- open. (only applies to single stage cement jobs, prior to the cement setting
- initiating the test (see casing segment as lead cement may be critical item). The tests shall be done by an independent service company utilizing a test for the casing. Any test against the casing must meet the WOC time for 8 independent tester to test without a plug (i.e. against the casing) pursuant hours or 500 pounds compressive strength, whichever is greater, prior to to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating 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  $\vdots$ 
  - The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 twenty-four hour chart is used, tester shall make a notation that it is run circular chart shall have a maximum 2 hour clock. If a twelve hour or BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M with a two hour clock. . .
- The results of the test shall be reported to the appropriate BLM office. >
- the BOP/BOPE test chart and a copy of independent service company test All tests are required to be recorded on a calibrated test chart. A copy of will be submitted to the appropriate BLM office. ۲.
- The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. test plug and 30 minutes without a test plug. This test shall be performed The test will be held for a minimum of 10 minutes if test is done with a prior to the test at full stack pressure. vii.
- BOP/BOPE must be tested by an independent service company within 500 test does not exclude the test prior to drilling out the casing shoe as per 43 of the intermediate casing and reaching this depth exceeds 20 days. This feet of the top of the Wolfcamp formation if the time between the setting VIII.

### C. DRILLING MUD

alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used Mud system monitoring equipment, with derrick floor indicators and visual and audio 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 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

Page 8 of 9

Page 9 of 9

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

Approved by Zota Stevens on 4/9/2025 575-234-5998 / zstevens@blm.gov

### **▼**AFMSS

Operator Certification Data Report

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

### Operator

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. 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 I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route

Signed on: 09/24/2024 NAME: RAVI SAGAR

Title: Regulatory Clerk

Street Address: 22777 SPRINGWOODS VILLAGE PKWY

Zip: 77389

City: SPRING State: TX

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

Email address: RAVI.SAGAR@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: State:

Zip:

Phone:

Email address:

AFMSS

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

Operator Name: XTO PERMIAN OPERATING LLC APD ID: 10400100953

Well Name: POKER LAKE UNIT 20-8 BD

Well Type: OIL WELL

Show Final Text

Well Work Type: Drill Well Number: 204H

Submission Date: 09/24/2024

Highlighted data reflects the most recent changes

Application Data 05/19/2025

### Section 1 - General

Tie to previous NOS? 10400100953 APD ID:

**Submission Date**: 09/24/2024

Z

Title: Regulatory Clerk **User: RAVI SAGAR BLM Office:** Carlsbad Is the first lease penetrated for production Federal or Indian? FED

Lease Acres:

Lease number: NMLC064894

Federal/Indian APD: FED

Reservation: Allotted? Surface access agreement in place? Federal or Indian agreement: FEDERAL

Agreement number: NMNM71016X Agreement in place? YES

Agreement name: POKER LAKE UNIT

Keep application confidential? Y

Permitting Agent? NO

Operator letter of

APD Operator: XTO PERMIAN OPERATING LLC

### Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

Operator Address: 6401 HOLIDAY HILL ROAD BLDG 5

**Zip**: 79707

Operator PO Box:

State: TX **Operator City: MIDLAND** 

Operator Phone: (432)683-2277

Operator Internet Address:

## Section 2 - Well Information

Master Development Plan name: Well in Master Development Plan? NO

Well in Master Drilling Plan? NO Well in Master SUPO? NO

Well Name: POKER LAKE UNIT 20-8 BD

Field/Pool or Exploratory? Field and Pool

Well Number: 204H

Master Drilling Plan name:

Master SUPO name:

Well API Number:

Field Name: CORRAL CANYON Pool Name: BONE SPRING

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

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

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: POKER LAKE UNIT 20-8 BD Number of Legs: 1

Number: B

Well Class: HORIZONTAL Well Work Type: Drill

Well Type: OIL WELL Describe Well Type: Well sub-Type: EVALUATION

Describe sub-type:

Distance to nearest well: 30 FT Distance to town:

Distance to lease line: 1431 FT

Reservoir well spacing assigned acres Measurement: 400 Acres

UPDATED FOR 

 Well plat:
 2024060276\_XTO\_POKER\_LAKE\_UNIT\_20\_8\_BD\_204H\_C\_102\_FINAL\_7\_12\_2024\_

 M\_9\_12\_2024\_15\_09\_2024\_14\_50\_20240924091153.pdf

 Well work start Date:
 10/16/2025

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

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ator	ibnl SN	FSL		FSL		FSL	
1	NS-Foo	143	_	143	_	100	
e	Wellbor	SH	Leg #1	KOP	Leg #1	РРР	Leg #1-1

Page 2 of 3

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

Will this well produce from this	<b>&gt;</b>	<b>&gt;</b>	<b>\</b>
ΩΛΤ	945 2	945 2	945 2
ПD	155 00	233 83	234 73
Elevation	- 627 8	- 627 8	- 627 8
Lease Number	NMLC0 - 64894A 627 8	STATE	STATE
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Meridian	NEW MEXI CO	NEW MEX	NEW MEXI CO
State	NEW MEXI CO	NEW MEXI CO	NEW MEXI CO
County	EDD Y	EDD Y	EDD Y
Pongitude	- 103.9059 Y 69	- 103.9059 Y 74	- 103.9059 74
Latitude	Aliquot 32.13750 NENW <sup>6</sup>	Aliquot 32.14454	Aliquot 32.14478 NESW 8
Aliquot/Lot/Tract	Aliquot 32 NENW 6	Aliquot NESW	Aliquot NESW
Section	17	∞	8
Кsnge	30E	30E	30E
dswT	25S	FW 25S	25S
EW Indicator	FW		FW
EW-Foot	189	189	189
NS Indicator	FNL	FSL	FSL
Joo-Foot	0	255 9	264 9
Wellbore	PPP Leg #1-2	EXIT Leg #1	BHL Leg #1

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Submit Electronically Via OCD Permitting	ally ng		Ō	IL CONSERV⊅	OIL CONSERVATION DIVISION	, NC	Submittal Type:	☐ Amended Report	mittal
								As Drilled	
			1	WELL LOCATION INFORMATION	INFORMATION				71
API Number 30-015		Pool Code [13	[13354]	Pool Name	CORRAL CANYON, BONE SPRING	YON, BONE S			
Property Code		Property Name	POKE	POKER LAKE UNIT 20-8 BD	30		<b>F</b>	Well Number 204H	
ORGID No. 373075		Operator Name	XTOF	XTO PERMIAN OPERATING, LLC.	VG, LLC.		5	Ground Level Elevation 3,174'	vation
Surface Owner:	☐ State	☐ Fee ☐ Tribal 本	Federal		Mineral Owner: State	State   Fee   T	ribal 🛛 Federa		
				Surface	Surface Location			4	
UL Section K 20	on Township 0 25 S	Range 30 E	Lot	Ft. from N/S 1,431' FSL	Ft. from E/W 1,994' FWL	Latitude 32.112214	Longitude -103.905629	County EDDY	
UL Section K 8	on Township 25 S	Range 30 E	Lot	Bottom Hc Ft. from N/S 2,649' FSL	Bottom Hole Location  N/S Ft. from E/W  49' FSL 1,895' FWL	Latitude 32,144788	Longitude -103,905974	County 74 EDDY	>
Dedicated Acres		Infill or Defining Well Defining	Defining	Defining Well API	Overlapping Spacing Unit (Y/N)		Consolidation Code	_	
Order Numbers.					   Well setbacks are under Common Ownership: X Yes   □	r Common Ownersh	ip: X Yes	No	
				Kick Off	Kick Off Point (KOP)				
UL Section K 20	on Township 0 25 S	Range 30 E	Lot	Ft. from N/S 1,431' FSL	Ft. from E/W 1,994' FWL	Latitude 32.112214	Longitude -103.905629	County EDDY	
UL Section	on Township	1 🗀	Lot	First Take	First Take Point (FTP) N/S Ft. from E/W	Latitude	Longitude		
N 2		30 E		100' FSL	1,895' FWL	32.108552	-103.905947	47 EDDY	
UL Section K	on Township 25 S	Range 30 E	Lot	Last Take Ft. from N/S 2,559' FSL	Last Take Point (LTP)  N/S Ft. from E/W  59' FSL	Latitude 32.144540	Longitude -103.905974	County 74 EDDY	
Unitized Area	Unitized Area or Area of Uniforn Interest	n Interest	Spacing	Spacing Unit Type M Horizontal	ntal 🗌 Vertical	Ground Fle	Ground Floor Elevation: 3	3,174'	
OPERATO	OPERATOR CERTIFICATIONS	ATIONS			SURVEYOR CERTIFICATIONS	ERTIFICATIO	SN		
I hereby certify interest of unk know interest or under location or has an owner of sua agreement or a If this well is a the consent of continuers in each interest in each complement consent of complement of complement interest	i that the informati avedage and belief; average mineral inter; a right to drill this ch a mineral or wo (compulsory pooli; horizontal well, I.J tt least one lessee of track (in the targe	ion contained here and that this organist organist organist organists organists organists organists organists organists organists organists or owner of a won or owner of a woll or ownered or or ownered or a woll or or ownered	ein is true mization e cluding th trion pursu to a volu pre enterea at this orga rking inter on) in whil	I hereby certify that the information contained herein is true and complete to the interest or my knowledge and belief, and that this organization either owns a working interest or unleased minerest in the lead 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 racci (in the arget pool of ormation) in which any part of the well's interest in each racci (in the arget pool of ormation) in which any part of the well's commeled interval will be located at obtained a commissory notine from the	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.  1. The C. PAPAS, NEW MEXICO PROFESSIONAL SIRRENDR NO. 21203, DO HEREBY CERTIFY THAT THIS SURVEY PLAY MUD THE GOODING WHICH IT BOSED ACTUAL SURVEY OF MOST WITH THE SURVEY THAT THE SURVEY THE SURVEY THAT THE SURVEY THE SURVEY THAT THE SURVEY	the well location shown on the yes made by me or under my so the best of my belief.  EXCO PROPESSIONAL SURFECTOR IN THE WAY THE WAY AND THE WORLD SURFECT OF THE SURFICE OF THE SURFECT OF	mder my supery mader my supery ef. ef. surecor no. surecor no. The surecorn n	ision, and that the same C. PAP.	the same
division.	Ch. Bal	6	9/23/24		TIM C. PAPPAS REGISTERED PROFINSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209	AL LAND SURVEYOR 40. 21209	PRU	28 CANAL SURVEY	HOT THE PORT
Signature ADrian Baker	ker		Date		Signature and Seal of Professional Surveyor	Professional Survey	·Or		
Printed Name					Certificate Number	Date of Survey	Survey		
adrian.bak Email Address	adrian.baker@exxonmobil.com Email Address	obil.com			TIM C. PAPPAS 21209		7/12/2024		
Note:		l be assigned to t	his compl	etion until all interests l	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.	or a non-standard t	nit has been ap	proved by the d	ivision.
			Vest 7th 9 Ph: 817 TBPE Fire	2821 West 7th Street., Ste 200 · Fort Worth, TX 76107 Ph. 817.349,9800 · Fax; 979.732.5271 TRPF Firm 1997   TRPES Firm 10193887	Forth, TX 76107 32.5271 0193887	DATE: DRAWN BY:	9-12-2024 LM	PROJECT NO: SCALE:	2024060276
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2024060276

PROJECT NO: SCALE: SHEET:

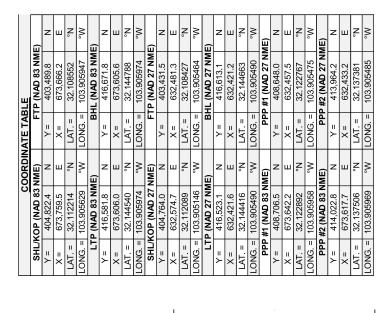
9-12-2024 LM CH

DATE: DRAWN BY: CHECKED BY: FIELD CREW:

## 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.



B106780001

SEC. 8 T25S R30E

100'-10'

목띦독

2,649° 1,895° I

LTP 2,559' 1,895'

1,335.88'

LINE TABLE
AZIMUTH
184 00'14"
359 44'11"

LINE

2 2

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

LEGEND

	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш		ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш
COORDINATES (NAD83 NME)	674,444.4	674,435.7	674,426.9	674,407.3	674,387.7	674,383.2	673,108.1	673,098.4	673,088.1	673,071.3	673,054.3	673,047.0	IAD27 NME)	633,259.5	633,250.9	633,242.2	633,222.7	633,203.2	633,188.7	631,923.2	631,913.6	631,903.4	631,886.7	631,869.8	631,862.6
ATES (N	A - X =	B - X =	C-X=	= X - Q	E-X=	F-X=	e X - 9	=X-H	=X-I	-X-L	K-X=	L-X=	IATES (N	= X - A	B - X =	C-X=	= X - Q	E-X=	F - X =	= X - 9	= X - H	= X - I	- X - ſ	K - X =	L-X=
RDIN	z	z	z	z	z	z	z	z	z	z	z	z	RDIN	z	z	z	z	z	z	z	z	z	z	z	z
CORNER COO	403,398.9	406,057.8	408,716.9	411,375.4	414,034.7	416,694.9	403,383.2	406,041.4	408,699.2	411,356.4	414,014.0	416,672.4	CORNER COORDINATES (NAD27 NME)	403,340.6	405,999.4	408,658.4	411,316.9	413,976.1	416,636.2	403,324.9	405,983.0	408,640.7	411,297.9	413,955.4	416,613.7
ၓ	A - Y =	B - Y =	C-Y=	- λ − C	E-Y=	F-Y=	e-∀-	= \ - H	- \  - \	J-Y=	K-Y=	- X =	ၓ႞	A - Y =	B-Y=	C-Y=	- √ - O	E-Y=	F-Y=	e-∀-	= 从-H	- \ -	1 - Y =	K-Y=	L-Y=

SEC. 17 T25S R30E

,PPP #1 0' FSL 1,893' FWL

SEC. 20 T25S R30E

I

NMLC 0064894



NMLC 0064894A

SHL/KOP 1,431' FSL 1,994' FWL

17

F.독독

100,

2821 West 7th Street, Suite 200 Fort Worth, TX 76107 Ph: 817.349.9800 - Fax: 979.73.2.5271 TBPE Firm 17957 | TBPLS Firm 10193887 © CONWIGHT 2324 A&L ROOFS RESERVED

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Page 1 of 6

U.S. Department of the Interior **₩**AFMSS

Drilling Plan Data Report

**BUREAU OF LAND MANAGEMENT APD ID**: 10400100953 Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD Well Type: OIL WELL

Highlighted data reflects the most ecent changes

**Submission Date**: 09/24/2024

Show Final Text

Well Work Type: Drill Well Number: 204H

#### - Geologic Formations Section

rces Producing Formatio	Z	Z	z	Z	OIL, N	OIL, N	OIL, Y	OIL, Y	OIL, Y	> =		
Mineral Resources	USEABLE WATER	USEABLE WATER	NONE	NONE	NATURAL GAS, OIL OTHER: Produced Water	NATURAL GAS, OIL, OTHER: Produced Water	NATURAL GAS, OIL, OTHER: Produced Water	NATURAL GAS, Oll., OTHER: Produced Water	NATURAL GAS, OIL, OTHER: Produced Water	NATURAL GAS, OIL OTHER: Produced	Water	Water NATURAL GAS, Oll., OTHER: Produced Waeter
Lithologies	ALLUVIUM	ANHYDRITE, SANDSTONE	SALT	SALT	LIMESTONE, SANDSTONE	SANDSTONE	LIMESTONE, SANDSTONE	LIMESTONE, SANDSTONE	LIMESTONE, SANDSTONE	LIMESTONE, SANDSTONE		LIMESTONE, SANDSTONE
Measured Depth	0	878	1028	3427	3634	6182	7459	8183	8662	8762	_	9219
True Vertical Measured Depth	0	878	1028	3427	3634	6182	7459	8183	8662	8762		9219
Elevation	3174	2296	2146	-253	-460	-3008	-4285	-2009	-5488	-5588		-6045
Formation Name	QUATERNARY	RUSTLER	SALADO	BASE OF SALT	DELAWARE	BRUSHY CANYON	BONE SPRING	BONE SPRING 1ST	BONE SPRING 2ND	BONE SPRING 2ND		BONE SPRING 2ND
Formation ID	15648197	15648198	15648199	15648200	15648201	15648202	15648203	15648204	15648205	15648206		15648207

#### - Blowout Prevention Section 2

Pressure Rating (PSI): 5M

Rating Depth: 9452

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

Requesting Variance? YES

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

Page 2 of 6

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

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

Choke Diagram Attachment:

Poker\_Lake\_Unit\_20\_17\_\_\_20\_8\_BD\_\_10MCM\_20250318115633.pdf

**BOP Diagram Attachment:** 

20\_8\_BD\_\_5M10M\_BOP\_20250318115658.pdf Poker\_Lake\_Unit\_20\_17

### Section 3 - Casing

Body SF	16.1	2.75	2.15
Body SF Type	DRY	DRY	DRY
AS Iniol	16.1	2.75	2.15
Joint SF Type	DRY	DRY	DRY
Burst SF	6.44 1.47	2.12 2.87	1.05
Collapse SF	6.44	2.12	2.48
Joint Type	BUTT	3	OTHER - TPN/Wedge 441
Meight	40	L-80 29.7	20
Grade	J-55 40	P80	P- 110
Calculated casing length MD	978	9968	23473
Bottom Set MSL	2196	-5363	3174 -6278 23473
Top Set MSL	3174	3174	3174
Bottom Set TVD	978	8537	9452
Top Set TVD	0	0	0
Bottom Set MD	978	9968	23473
Top Set MD	0	0	0
Tapered String	z	>	>
Standard	API	API	NON API
noitibno	NEW	NEW	NEW
əsiS geJ	9.625	7.625	5.5
əzi2 əloH	12.2 9.62 5	8.75	6.75
String Type	SURFACE	INTERMED IATE	PRODUCTI ON
Ol gnissO	_	7	3

#### Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

Casing Attachments

Casing ID: 2 String INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 String

Inspection Document:

**PRODUCTION** 

Spec Document:

TPN\_5.500\_20.00\_0.361\_P110\_ICY\_20250318115903.pdf

Wedge\_441\_\_5.500\_\_20.00\_0.361\_P110\_ICY\_20250318115904.pdf

Tapered String Spec:

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_Csg\_20250318115944.pdf

Casing Design Assumptions and Worksheet(s):

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_Csg\_20250318120011.pdf

Section 4 - Cement

1					
	səvitibbA	NA	2%cacl	NA	NA
	Cement type	EconoCem- HLTRRC	100 Class C	100 Class C	100 Class C
	%ssəɔx∃	100	100	100	100
	Cu Ft	10.5 411.4	14.8 175.5	14.8 337.5	931
	Density	10.5	14.8	14.8	14.8
	bləiƳ	1.87	1.35	1.35	1.33
	(xe)ytitneuD	220	130	250	700
	GM mottoB	826	978	6182	9968
	□M qoT	0	0	0	6182
	Stage Tool Depth				
	Lead/Tail	Lead	Tail	Lead	Tail
	String Type	SURFACE	SURFACE	INTERMEDIATE	INTERMEDIATE

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

səvifibbA	NA	NA
Cement type	NeoCem	VersaCem
Excess%	30	30
Cu Ft	53.8	1540. 2
Density	11.5	1020 1.51 13.2 1540. 2
bləiY	6	1.51
Quantity(sx)	20	1020
GM mottoB	8666 9166	9166 2347 3
dΜ qoT	9998	9166
Stage Tool Depth		
lisT\bsəJ	Lead	Tail
String Type	PRODUCTION	PRODUCTION

# 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.

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 Describe the mud monitoring system utilized: Spud with fresh water/native mud. Drill out from under surface casing with 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 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 operate as a closed loop system.

## **Circulating Medium Table**

Additional Characteristics				
Filtration (cc)				
(mqq) (tinils8				
Viscosity (CP)				
Н				
Gel Strength (lbs/100 sqft)				
Density (lbs/cu ft)				
(lsg/sdl) thgiaW xsM	8.9	11	9.5	9.6
Min Weight (Ibs/gal)	8.4	10.5	6	9.1
Mud Type	WATER-BASED MUD	SALT SATURATED	OTHER: BDE/OBM	OIL-BASED MUD
Bottom Depth	~	3634	9968	2347
Тор Depth	0	978	3634	8966

Page 5 of 6

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

# Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

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

Coring operation description for the well:

No coring is planned for the well.

### Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4718

Anticipated Bottom Hole Temperature(F): 180

Anticipated Surface Pressure: 2638

Anticipated abnormal pressures, temperatures, or potential geologic hazards? N ${\sf O}$ 

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO\_Energy\_H2S\_Plan\_Updated\_20240827123524.pdf

# Section 8 - Other Information

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

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_DD\_20240911121107.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_Cmt\_20240911121132.pdf

\_20\_8\_BD\_MBS\_9.625\_x\_7.625\_3String\_20240827131502.pdf Poker\_Lake\_Unit\_20\_17\_\_

\_18\_30\_20240911063348.pdf 18\_19\_ NGMPForm\_PLU\_20\_17\_20\_8\_BD\_

\_PAD\_D\_Combined\_20250318120742.pdf 20\_8\_BD\_H2S\_DIA\_PAD\_B\_ POKER\_LAKE\_UNIT\_20\_17\_

Other Variance request(s)?:

Other Variance attachment:

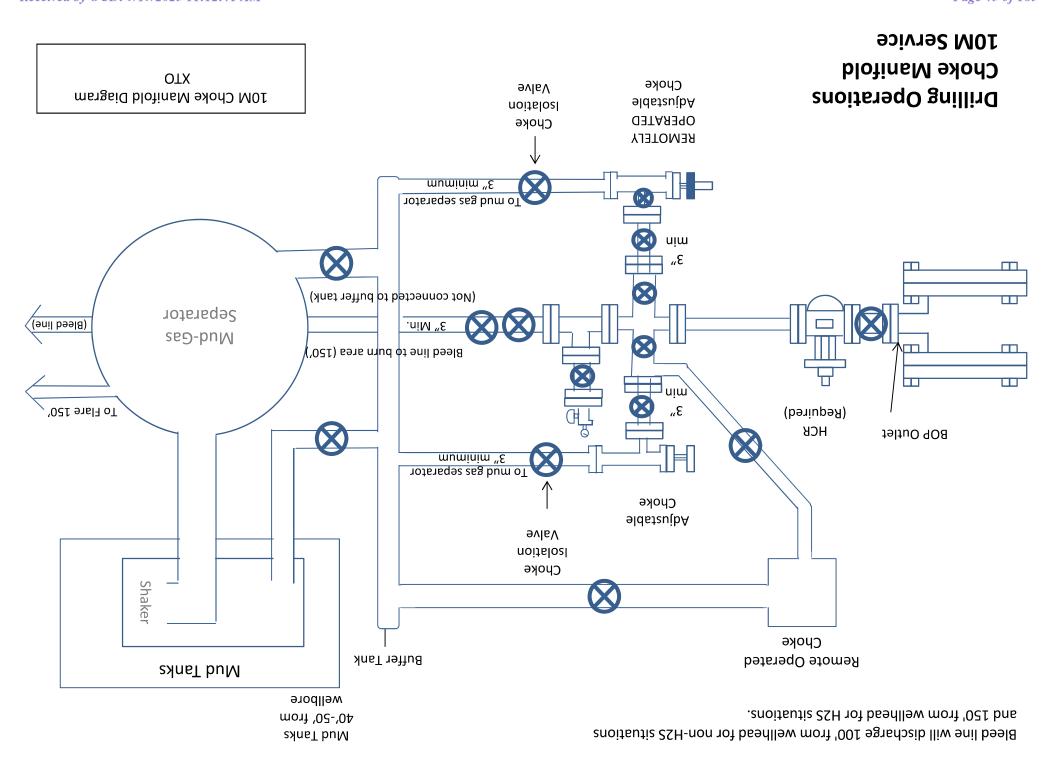
BOP\_Break\_Test\_Variance\_20240827131930.pdf

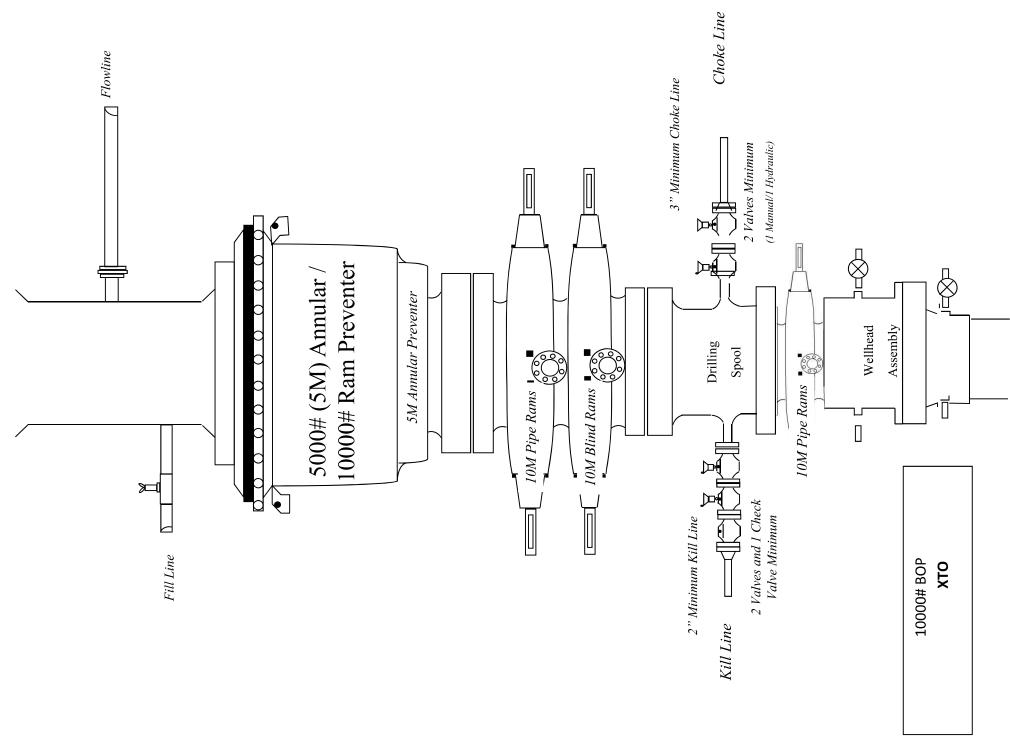
Flex\_Hose\_Updated\_20240827131622.pdf

Well Number: 204H Well Name: POKER LAKE UNIT 20-8 BD

Operator Name: XTO PERMIAN OPERATING LLC

\_20\_8\_BD\_\_OLCV\_20240827131923.pdf Spudder\_Rig\_Request\_20240827131622.pdf Poker\_Lake\_Unit\_20\_17\_





TPN **≡** Tenaris



Coupling	Pipe Body
Grade: P110-ICY	Grade: P1104CY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Printed on: 04/23/2024

Customer	XTO ENERGY INC. Wall Thickness		0.361 in. <b>Grade</b> P110-	P110-ICY
Outside Diameter	5.500 in.	Pipe Body Driff	API Standard Type Cas	Casing
Min. Wall Thickness	87.50 %			
Connection OD Option	REGULAR			

#### Pipe Body Data

	Performance	Body Yield Strength	Min. Internal Yield Pressure	SMYS	Collapse Pressure	
		<b>Phickness</b> 0.361 in.	Plain End Weight 19.83 lb/ft	Merance API		
ı		5.500 in. Wall Thickness	20.00 lb/ft Plain	4.653 in. OD Tolerance	4.778 in.	
in a sale	Geometry	Nominal OD	Nominal Weight	Drift	Nominal ID	

14,360 psi

125,000 psi 12,300 psi

729 x1000 lb

Connection Data

Geometry

#### External Pressure Capacity Internal Pressure Capacity Compression Efficiency Max. Allowable Bending Compression Strength Joint Yield Strength Tension Efficiency 6.300 in. 8.408 in. 4.204 in. 2 Regular 4.778 in.

Coupling Length Connection OD

Connection ID Make-up Loss

	Make-Up Torques
100 %	Minimum 21,100 ft-lb
729 x1000 lb	<b>Optimum</b> 22,600 ft-lb
14,360 psi	Maximum 24,100 ft-lb
100 %	Onarstinn I imit Torniae
729 x1000 lb	
404 %/100 #	Operating lorque
1001	32 500 # Ib
12 300 pei	
2,300 psi	

#### Notes

Connection OD Option

Threads per inch

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

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PI-0/CII-3

Tenaris

## **TenarisHydril Wedge**



Coupling	Pipe Body	
Grade: P110-1CY	Grade: P110-ICY	
Body: White	1st Band: White	
1st Band: Pale Green	2nd Band: Pale Green	
2nd Band: -	3rd Band: Pale Green	
3rd Band: -	4th Band: -	
	5th Band: -	
	0	

Printed on: 01-08-2025

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

#### Pipe Body Data

Performance	Body Yield Strength	Min. Internal Yield Pressure	SMYS	Collapse Pressure	
	0.361 in.	19.83 lb/ft	API		
	5.500 in. Wall Thickness	Plain End Weight	4.653 in. OD Tolerance		
	5.500 in.	20.00 lb/ft	4.653 in.	4.778 in.	
Geometry	Nominal OD	Nominal Weight	Drift	Nominal ID	

Make-Up Torques	

12,300 psi

729 x1000 lb 14,360 psi 125,000 psi

%	Minimum	15,000 ft-lb
의	Optimum	16,000 ft-lb
· <u>s</u>	Maximum	19,200 ft-lb
%	Overanting Inchit	
<u> </u>	Operation Limit Torques	
#	Operating Torque	36,000 ft-lb
=   · <u>-</u>	Yield Torque	42,000 ft-lb
5		
	Buck-On	

19,200 ft-lb 20,700 ft-lb

Maximum Minimum

#### Connection Data

External Pr		
Max. Allow	Regular	Connection OD Option
Compressi	3.40	Threads per inch
Compress	3.780 in.	Make-up Loss
Internal Pr	4.778 in.	Connection ID
Joint Yield	8.714 in.	Coupling Length
Tension Ef	5.852 in.	Connection OD
Perform		Geometry

Tension Efficiency	81.50 %
Joint Yield Strength	594 ×1000 lk
Internal Pressure Capacity	14,360 ps
Compression Efficiency	81.50 %
Compression Strength	594 ×1000 lk
Max. Allowable Bending	84.76 °/100 f
External Pressure Capacity	12,300 ps

This connection is fully interchangeable with:

Wedge 44(18-5.5in. - 0.394 (17.00)) in. (Ib/R)

Wedge 44(18-5.5in. - 0.394 (17.00)) / 0.381 (20.00) / 0.415 (23.00) in. (Ib/R)

Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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

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## Casing Assumptions

Casing Design

2.15
2.48
CO.1
New
Wedge 441
KY P-110 ICY
8
0.0
23472.92'
0.75
-

## Casing Assumptions

Casing Design

16.10	2.10		2.15	2.15
6.44	2.57	2.12	2.65	2.48
1.47	3.95		1.05	1.05
New 1.47 New 3.95 New 2.87		New	New	New
BTC Flush Joint Flush Joint		Flush Joint	Semi-Premium/ TPN	Semi-Flush/ Wedge 441
J-55	RY P-110 HC L-80		RY P-110 ICY	RY P-110 ICY
40	29.7	29.7		20
9.625	7.625	7.625	5.5	5.5
0' – 978' 0' – 4000' 4000' –		4000' – 8966.47'	0' - 8866.47'	8866.47' - 23472.92'
Hole Size 12.25		8.75	6.75	6.75
	0'-978' 9.625 40 J-55 BTC New 1.47 6.44	0'-978'         9.625         40         J-55         BTC         New         1.47         6.44           0'-4000'         7.625         29.7         RY P-110         Flush Joint         New         3.95         2.57	0'-978'         9.625         40         J-55         BTC         New         1.47         6.44           0'-4000'         7.625         29.7         RY P-110         Flush Joint         New         3.95         2.57           4000'-         7.625         29.7         HC L-80         Flush Joint         New         2.87         2.12	0'-978'         9.625         40         J-55         BTC         New         1.47         6.44           0'-4000'         7.625         29.7         RY P-110         Flush Joint         New         3.95         2.57           8966.47'         5.5         20         RY P-110 ICY         Semi-Premium/ TPN         New         1.05         2.65



# 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  $H_2S$  monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation. Contact operator and/or local officials to aid in operation. See list of phone numbers
- Have received training in the o Detection of H<sub>2</sub>S, and
- Measures for protection against the gas, 0
- Equipment used for protection and emergency response.

### <u>Ignition of Gas source</u>

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 against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the Should control of the well be considered lost and ignition considered, take care to protect downwind whenever this is an ignition of the gas.

## Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Lethal Concentration	mdd 009	1000 ppm
Hazardous Limit	100 ppm/hr 6	N/A
Threshold Limit   Hazardous Limit	10 ppm	2 ppm
fic Gravity	1.189 Air = I	2.21 Air = I
Chemical Specifical Formula	H <sub>2</sub> S	SO <sub>2</sub>
Common Name	Hydrogen Sulfide	Sulfur Dioxide

## Contacting Authorities

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). possible but no later than 4 hours. Agencies will ask for information such as type and volume of including directions to site. The following call list of essential and potential responders has been response to a major release. Additionally, the OCD must be notified of the release as soon as release, wind direction, location of release, etc. Be prepared with all information available personnel must liaison with local and state agencies to ensure a proper All XTO location

# CARLSBAD OFFICE - EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
SHERIFF DEPARTMENTS: Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County:  Bureau of Land Management - Carlsbad  New Mexico Oil Conservation Division - Artesia	575-234-5972

#### Well Plan Report - Poker Lake Unit 20-8 BD 204H

 Measured Depth:
 23472.92 ft

 TVD RKB:
 9452.00 ft

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 404764.00 ft Easting: 632574.70 ft RKB: 3206.00 ft **Ground Level:** 3174.00 ft North Reference: Grid **Convergence Angle:** 0.23 Deg

Plan Sections Poker Lake Unit 20-8 BD 204H

Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
2410.32	26.21	182.52	2365.11	-294.19	-12.94	2.00	0.00	2.00
5720.35	26.21	182.52	5334.89	-1754.50	<b>-</b> 77.19	0.00	0.00	0.00
7030.66	0.00	0.00	6600.00	-2048.69	-90.13	<b>-</b> 2.00	0.00	2.00
9166.47	0.00	0.00	8735.80	-2048.69	-90.13	0.00	0.00	0.00
10291.47	90.00	359.74	9452.00	-1332.50	<b>-</b> 93.40	8.00	0.00	8.00 FTP 4
23383.20	90.00	359.74	9452.00	11759.10	-153.10	0.00	0.00	0.00 LTP 4
23472.92	90.00	359.74	9452.00	11848.82	-153.51	0.00	0.00	0.00 BHL 4

Position Uncertainty Poker Lake Unit 20-8 BD 204H

Measured TVD Highside Lateral Vertical Magnitude Semi- Semi- Semi- Tool major minor

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOMR2_OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	XOMR2_OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.309	0.000	0.000	0.717	0.538	90.000	XOMR2_OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	1.075	0.896	90.000	XOMR2_OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.346	0.000	0.000	1.434	1.255	90.000	XOMR2_OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.373	0.000	0.000	1.792	1.613	90.000	XOMR2_OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.405	0.000	0.000	2.151	1.972	90.000	XOMR2_OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.441	0.000	0.000	2.509	2.330	90.000	XOMR2_OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.483	0.000	0.000	2.868	2.689	90.000	XOMR2_OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.528	0.000	0.000	3.226	3.047	90.000	XOMR2_OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.577	0.000	0.000	3.585	3.405	90.000	XOMR2_OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.630	0.000	0.000	3.943	3.764	90.000	XOMR2_OWSG MWD+IFR1+MS
1200.000	2.000	182.519	1199.980	4.282	-0.000	4.104	0.000	2.686	0.000	0.000	4.284	4.104	89.996	XOMR2_OWSG MWD+IFR1+MS
1300.000	4.000	182.519	1299.838	4.602	-0.000	4.429	0.000	2.742	0.000	0.000	4.612	4.429	89.998	XOMR2_OWSG MWD+IFR1+MS
1400.000	6.000	182.519	1399.452	4.922	-0.000	4.759	0.000	2.800	0.000	0.000	4.945	4.759	89.991	XOMR2_OWSG MWD+IFR1+MS
1500.000	8.000	182.519	1498.702	5.240	-0.000	5.093	0.000	2.859	0.000	0.000	5.282	5.093	89.966	XOMR2_OWSG MWD+IFR1+MS
1600.000	10.000	182.519	1597.465	5.557	-0.000	5.434	0.000	2.920	0.000	0.000	5.621	5.433	89.912	XOMR2_OWSG MWD+IFR1+MS
1700.000	12.000	182.519	1695.623	5.872	-0.000	5.780	0.000	2.982	0.000	0.000	5.964	5.779	89.815	XOMR2_OWSG MWD+IFR1+MS
1800.000	14.000	182.519	1793.055	6.186	-0.000	6.133	0.000	3.048	0.000	0.000	6.309	6.133	89.656	XOMR2_OWSG MWD+IFR1+MS

1900.000	16.000	182.519	1889.643	6.499 -	0.000	6.494	0.000	3.118	0.000	0.000	6.657	6.494	89.395	XOMR2_OWSG MWD+IFR1+MS
2000.000	18.000	182.519	1985.268	6.811 -	0.000	6.865	0.000	3.194	0.000	0.000	7.008	6.864	88.957	XOMR2_OWSG MWD+IFR1+MS
2100.000	20.000	182.519	2079.816	7.122 -	0.000	7.245	0.000	3.276	0.000	0.000	7.361	7.245	88.145	XOMR2_OWSG MWD+IFR1+MS
2200.000	22.000	182.519	2173.169	7.434 -	0.000	7.637	0.000	3.367	0.000	0.000	7.717	7.636	86.306	XOMR2_OWSG MWD+IFR1+MS
2300.000	24.000	182.519	2265.215	7.747 -	0.000	8.040	0.000	3.469	0.000	0.000	8.077	8.038	79.253	XOMR2_OWSG MWD+IFR1+MS
2400.000	26.000	182.519	2355.841	8.062 -	0.000	8.456	0.000	3.583	0.000	0.000	8.459	8.432	21.622	XOMR2_OWSG MWD+IFR1+MS
2410.317	26.206	182.519	2365.105	8.094 -	0.000	8.500	0.000	3.586	0.000	0.000	8.502	8.474	20.353	XOMR2_OWSG MWD+IFR1+MS
2500.000	26.206	182.519	2445.570	8.455 <b>-</b>	0.000	8.883	0.000	3.717	0.000	0.000	8.884	8.796	7.738	XOMR2_OWSG MWD+IFR1+MS
2600.000	26.206	182.519	2535.291	8.864 -	0.000	9.320	0.000	3.871	0.000	0.000	9.320	9.158	5.221	XOMR2_OWSG MWD+IFR1+MS
2700.000	26.206	182.519	2625.012	9.280 -	0.000	9.764	0.000	4.033	0.000	0.000	9.764	9.526	4.254	XOMR2_OWSG MWD+IFR1+MS
2800.000	26.206	182.519	2714.733	9.701 -	0.000	10.215	0.000	4.202	0.000	0.000	10.215	9.899	3.741	XOMR2_OWSG MWD+IFR1+MS
2900.000	26.206	182.519	2804.454	10.127 -	0.000	10.671	0.000	4.376	0.000	0.000	10.671	10.276	3.423	XOMR2_OWSG MWD+IFR1+MS
3000.000	26.206	182.519	2894.175	10.557 -	0.000	11.132	0.000	4.556	0.000	0.000	11.132	10.658	3.205	XOMR2_OWSG MWD+IFR1+MS
3100.000	26.206	182.519	2983.896	10.991 -	0.000	11.598	0.000	4.741	0.000	0.000	11.598	11.043	3.046	XOMR2_OWSG MWD+IFR1+MS
3200.000	26.206	182.519	3073.617	11.428 -	0.000	12.067	0.000	4.930	0.000	0.000	12.067	11.431	2.925	XOMR2_OWSG MWD+IFR1+MS
3300.000	26.206	182.519	3163.338	11.868 -	0.000	12.540	0.000	5.123	0.000	0.000	12.540	11.822	2.829	XOMR2_OWSG MWD+IFR1+MS
3400.000	26.206	182.519	3253.059	12.311 -	0.000	13.016	0.000	5.319	0.000	0.000	13.016	12.215	2.752	XOMR2_OWSG MWD+IFR1+MS
3500.000	26.206	182.519	3342.779	12.756 -	0.000	13.495	0.000	5.518	0.000	0.000	13.495	12.612	2.688	XOMR2_OWSG MWD+IFR1+MS
3600.000	26.206	182.519	3432.500	13.203 -	0.000	13.976	0.000	5.720	0.000	0.000	13.976	13.010	2.634	XOMR2_OWSG MWD+IFR1+MS
3700.000	26.206	182.519	3522.221	13.653 -	0.000	14.460	0.000	5.925	0.000	0.000	14.460	13.410	2.588	XOMR2_OWSG MWD+IFR1+MS

3900.000 26.206 182.519 3701.663 14.556 -0.000 15.432 0.000 6.342 0.000 0.000 15.432 14.216 2.513 MMD-IFR1+ 4000.000 26.206 182.519 3881.105 15.466 -0.000 16.411 0.000 6.564 0.000 0.000 15.921 14.621 2.482 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 3881.105 15.466 -0.000 16.411 0.000 6.768 0.000 0.000 16.411 15.028 2.454 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 4060.547 16.380 -0.000 17.396 0.000 7.201 0.000 0.000 17.396 15.845 2.408 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 4060.547 16.380 -0.000 17.396 0.000 7.201 0.000 0.000 17.396 15.845 2.408 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 44150.268 16.838 -0.000 17.890 0.000 7.420 0.000 0.000 17.396 15.845 2.408 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 4239.989 17.298 -0.000 18.385 0.000 7.840 0.000 0.000 18.385 16.667 2.368 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 4329.710 17.758 -0.000 18.881 0.000 7.863 0.000 0.000 18.881 17.080 2.352 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 4598.573 19.144 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MMD-IFR1+ 4000.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.311 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 21.874 0.000 8.994 0.000 0.000 21.874 19.573 2.276 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 21.874 0.000 8.994 0.000 0.000 21.874 19.573 2.266 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 8.994 0.000 0.000 21.874 19.573 2.266 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 22.877 0.409 2.266 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 22.877 20.409 2.266 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.573 2.266 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 23.379 20.829 2.244 XOMR2_OW MMD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 21.876 0.000 9.228															
400.000 26.206 182.519 3791.384 15.010 -0.000 15.921 0.000 6.554 0.000 0.000 15.921 14.621 2.482 XOMR2_OW MVD-IFR1+ 4100.000 26.206 182.519 3881.105 15.466 -0.000 16.411 0.000 6.768 0.000 0.000 16.411 15.028 2.454 XOMR2_OW MVD-IFR1+ 4200.000 26.206 182.519 3970.826 15.922 -0.000 16.930 0.000 6.984 0.000 0.000 16.903 15.436 2.430 XOMR2_OW MVD-IFR1+ 4200.000 26.206 182.519 4060.547 16.380 -0.000 17.396 0.000 7.201 0.000 0.000 17.396 15.845 2.400 XOMR2_OW MVD-IFR1+ 4400.000 26.206 182.519 4150.268 16.838 -0.000 17.890 0.000 7.420 0.000 0.000 17.890 16.256 2.388 XOMR2_OW MVD-IFR1+ 4500.000 26.206 182.519 4239.989 17.298 -0.000 18.385 0.000 7.640 0.000 0.000 18.385 16.667 2.369 XOMR2_OW MVD-IFR1+ 4600.000 26.206 182.519 4329.710 17.758 -0.000 18.881 0.000 7.863 0.000 0.000 18.881 17.080 2.352 XOMR2_OW MVD-IFR1+ 4700.000 26.206 182.519 4419.431 18.219 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 XOMR2_OW MVD-IFR1+ 4800.000 26.206 182.519 4598.573 19.144 -0.000 20.374 0.000 8.381 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MVD-IFR1+ 4900.000 26.206 182.519 4588.594 19.607 -0.000 20.374 0.000 8.765 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MVD-IFR1+ 5000.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.765 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MVD-IFR1+ 5000.000 26.206 182.519 4868.594 19.607 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MVD-IFR1+ 5000.000 26.206 182.519 4868.036 20.535 -0.000 22.877 0.000 9.688 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MVD-IFR1+ 5000.000 26.206 182.519 5137.199 21.931 -0.000 22.877 0.000 9.688 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MVD-IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.339 XOMR2_OW MVD-IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.339 XOMR2_OW MVD-IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.339 XOMR2_OW MVD-IFR1+	3800.000	26.206	182.519	3611.942	14.104 -0.0	00 14	.945	0.000	6.133	0.000	0.000	14.945	13.812	2.548	XOMR2_OWSG MWD+IFR1+MS
4100.000 26.206 182.519 3881.105 15.466 -0.000 16.411 0.000 6.768 0.000 0.000 16.411 15.028 2.454 MMD-HRR1+ 4200.000 26.206 182.519 3970.826 15.922 -0.000 16.903 0.000 6.984 0.000 0.000 17.396 15.436 2.430 XOMR2_OW MMD-HRR1+ 4300.000 26.206 182.519 4060.547 16.380 -0.000 17.396 0.000 7.201 0.000 0.000 17.396 15.845 2.408 XOMR2_OW MMD-HRR1+ 4400.000 26.206 182.519 4150.268 16.838 -0.000 17.890 0.000 7.420 0.000 0.000 17.890 16.256 2.388 XOMR2_OW MMD-HRR1+ 4500.000 26.206 182.519 4239.989 17.298 -0.000 18.385 0.000 7.640 0.000 0.000 18.885 16.667 2.369 XOMR2_OW MMD-HRR1+ 4600.000 26.206 182.519 4329.710 17.758 -0.000 18.881 0.000 7.863 0.000 0.000 18.881 17.080 2.335 XOMR2_OW MMD-HRR1+ 4700.000 26.206 182.519 4599.152 18.681 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 XOMR2_OW MMD-HRR1+ 4800.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MMD-HRR1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.765 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 4868.594 19.607 -0.000 20.374 0.000 8.765 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 4868.594 19.607 -0.000 21.374 0.000 8.765 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 4868.363 20.535 -0.000 21.374 0.000 8.765 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 4868.363 20.535 -0.000 21.374 0.000 8.765 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 5047.478 21.465 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 5137.199 21.931 -0.000 23.337 0.000 9.921 0.000 0.000 23.337 20.829 2.248 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 5137.199 21.931 -0.000 23.337 0.000 0.000 23.337 20.829 2.248 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 5137.199 21.931 -0.000 23.337 0.000 0.000 23.337 20.829 2.248 XOMR2_OW MMD-HRR1+ 5000.000 26.206 182.519 5137.199 21.931 -0.000 23.3382 0.000 10.160 0.000 23.335 21.488 2.	3900.000	26.206	182.519	3701.663	14.556 -0.0	00 15	5.432	0.000	6.342	0.000	0.000	15.432	14.216	2.513	XOMR2_OWSG MWD+IFR1+MS
4200.000 26.206 182.519 3970.826 15.922 -0.000 16.903 0.000 6.984 0.000 0.000 16.903 15.436 2.439 MWD-HFR1+ 4300.000 26.206 182.519 4060.547 16.380 -0.000 17.396 0.000 7.201 0.000 0.000 17.396 15.845 2.408 MWD-HFR1+ 4400.000 26.206 182.519 4150.268 16.838 -0.000 17.890 0.000 7.420 0.000 0.000 17.890 16.256 2.388 MWD-HFR1+ 4500.000 26.206 182.519 4239.989 17.298 -0.000 18.385 0.000 7.640 0.000 0.000 18.385 16.667 2.369 MWD-HFR1+ 4600.000 26.206 182.519 4239.989 17.7758 -0.000 18.881 0.000 7.630 0.000 0.000 18.881 17.080 2.352 MWD-HFR1+ 4700.000 26.206 182.519 4419.431 18.219 -0.000 19.376 0.000 8.086 0.000 0.000 19.378 17.493 2.337 MMR2-DW MWD-HFR1+ 4800.000 26.206 182.519 4599.152 18.681 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.998 2.323 MWD-HFR1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.765 0.000 0.000 20.375 18.323 2.310 MWD-HFR1+ 5000.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 MWD-HFR1+ 5200.000 26.206 182.519 4968.036 20.535 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 MWD-HFR1+ 5200.000 26.206 182.519 4967.757 21.000 -0.000 21.374 0.000 9.455 0.000 0.000 22.375 19.991 2.266 MWD-HFR1+ 5300.000 26.206 182.519 5047.478 21.465 -0.000 23.379 0.000 9.000 23.379 20.829 2.248 MWD-HFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 23.379 0.000 9.000 23.379 20.829 2.248 MWD-HFR1+ 5500.000 26.206 182.519 5047.478 21.465 -0.000 23.379 0.000 9.000 23.379 20.829 2.248 MWD-HFR1+ 5400.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.000 23.339 20.829 2.248 MWD-HFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.000 23.339 20.829 2.248 MWD-HFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.388 20.000 10.156 0.000 0.000 23.882 21.248 2.239 MWD-HFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.389 0.000 0.000 23.882 21.248 2.239 MWD-HFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.389 0.000 0.000 23.882 21.248 2.239 MWD-HFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.389 0.000 0.000 2	4000.000	26.206	182.519	3791.384	15.010 -0.00	00 15	5.921	0.000	6.554	0.000	0.000	15.921	14.621	2.482	XOMR2_OWSG MWD+IFR1+MS
4300.000 26.206 182.519 4150.268 16.388 -0.000 17.396 0.000 7.201 0.000 0.000 17.396 15.845 2.408 XOMR2_OW MWD+IFR1+ 4400.000 26.206 182.519 4150.268 16.838 -0.000 17.890 0.000 7.420 0.000 0.000 17.890 16.256 2.388 XOMR2_OW MWD+IFR1+ 4500.000 26.206 182.519 4239.989 17.298 -0.000 18.385 0.000 7.640 0.000 0.000 18.385 16.667 2.369 XOMR2_OW MWD+IFR1+ 4600.000 26.206 182.519 4329.710 17.758 -0.000 18.881 0.000 7.863 0.000 0.000 18.881 17.080 2.352 XOMR2_OW MWD+IFR1+ 4700.000 26.206 182.519 4419.431 18.219 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 XOMR2_OW MWD+IFR1+ 4800.000 26.206 182.519 4599.152 18.681 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MWD+IFR1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD+IFR1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 20.374 0.000 8.565 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD+IFR1+ 5100.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 8.994 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MWD+IFR1+ 5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.374 19.573 2.276 XOMR2_OW MWD+IFR1+ 5300.000 26.206 182.519 4957.757 21.000 -0.000 22.877 0.000 9.455 0.000 0.000 22.877 20.409 2.266 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 23.879 20.829 2.248 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5137.4799 21.931 -0.000 23.879 0.000 9.921 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5137.199 21.931 -0.000 23.882 0.000 10.56 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5137.499 21.931 -0.000 23.882 0.000 10.56 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5137.499 21.931 -0.000 23.882 0.000 10.56 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+	4100.000	26.206	182.519	3881.105	15.466 -0.0	00 16	6.411	0.000	6.768	0.000	0.000	16.411	15.028	2.454	XOMR2_OWSG MWD+IFR1+MS
4400.000 26.206 182.519 4150.268 16.838 -0.000 17.890 0.000 7.420 0.000 0.000 17.890 16.256 2.388 MVDHER1+ 4500.000 26.206 182.519 4239.989 17.298 -0.000 18.885 0.000 7.640 0.000 0.000 18.885 16.667 2.369 MVDHER1+ 4600.000 26.206 182.519 4329.710 17.758 -0.000 18.881 0.000 7.863 0.000 0.000 18.881 17.080 2.352 MVDHER1+ 4700.000 26.206 182.519 4419.431 18.219 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 MVDHER1+ 4800.000 26.206 182.519 4599.152 18.681 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.908 2.323 MVDHER1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 MVDHER1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 20.874 0.000 8.994 0.000 0.000 20.874 18.739 2.298 MVDHER1+ 5100.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 8.994 0.000 0.000 21.374 19.155 2.286 MVDHER1+ 5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 8.994 0.000 0.000 21.374 19.573 2.276 XOMR2_OW MVDHER1+ 5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MVDHER1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.377 0.000 9.455 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MVDHER1+ 5500.000 26.206 182.519 5047.478 21.465 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MVDHER1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.382 0.000 10.156 0.000 0.000 23.382 21.248 2.239 XOMR2_OW MVDHER1+ 5500.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.382 21.248 2.239 XOMR2_OW MVDHER1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.382 21.248 2.239 XOMR2_OW MVDHER1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MVDHER1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.382 21.248 2.239 XOMR2_OW MVDHER1+	4200.000	26.206	182.519	3970.826	15.922 -0.0	00 16	5.903	0.000	6.984	0.000	0.000	16.903	15.436	2.430	XOMR2_OWSG MWD+IFR1+MS
4500.000 26.206 182.519 4239.989 17.298 -0.000 18.385 0.000 7.640 0.000 0.000 18.385 16.667 2.369 XOMR2_OW MWD-IER1+ 4700.000 26.206 182.519 4419.431 18.219 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 XOMR2_OW MWD-IER1+ 4800.000 26.206 182.519 4598.873 19.144 -0.000 19.876 0.000 8.537 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MWD-IER1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD-IER1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 20.874 0.000 8.765 0.000 0.000 20.874 18.739 2.298 XOMR2_OW MWD-IER1+ 5100.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MWD-IER1+ 5200.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD-IER1+ 5300.000 26.206 182.519 5047.478 21.465 -0.000 22.375 0.000 9.455 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD-IER1+ 5500.000 26.206 182.519 5047.478 21.465 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD-IER1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD-IER1+ 5500.000 26.206 182.519 526.919 22.397 -0.000 23.379 0.000 9.921 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD-IER1+ 5500.000 26.206 182.519 526.919 22.397 -0.000 23.379 0.000 9.921 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD-IER1+ 5500.000 26.206 182.519 526.919 22.397 -0.000 23.382 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD-IER1+ 5500.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD-IER1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW	4300.000	26.206	182.519	4060.547	16.380 -0.0	00 17	'.396(	0.000	7.201	0.000	0.000	17.396	15.845	2.408	XOMR2_OWSG MWD+IFR1+MS
400.000 26.206 182.519 4329.710 17.758 -0.000 18.881 0.000 7.863 0.000 0.000 18.881 17.080 2.352 MWD+IFR1+  4700.000 26.206 182.519 4419.431 18.219 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 XOMR2_OW MWD+IFR1+  4800.000 26.206 182.519 4509.152 18.681 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MWD+IFR1+  4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD+IFR1+  5000.000 26.206 182.519 4688.594 19.607 -0.000 20.874 0.000 8.765 0.000 0.000 20.874 18.739 2.298 XOMR2_OW MWD+IFR1+  5100.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MWD+IFR1+  5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.573 2.276 XOMR2_OW MWD+IFR1+  5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD+IFR1+  5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.455 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD+IFR1+  5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD+IFR1+  5600.000 26.206 182.519 5137.199 21.931 -0.000 23.382 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+  5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+	4400.000	26.206	182.519	4150.268	16.838 -0.0	00 17	'.890(	0.000	7.420	0.000	0.000	17.890	16.256	2.388	XOMR2_OWSG MWD+IFR1+MS
4700.000 26.206 182.519 4419.431 18.219 -0.000 19.378 0.000 8.086 0.000 0.000 19.378 17.493 2.337 XOMR2_OW MWD+IFR1+ 4800.000 26.206 182.519 4509.152 18.681 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MWD+IFR1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD+IFR1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 20.874 0.000 8.765 0.000 0.000 20.874 18.739 2.298 XOMR2_OW MWD+IFR1+ 5100.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MWD+IFR1+ 5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.573 2.276 XOMR2_OW MWD+IFR1+ 5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 22.877 20.409 2.256 XOMR2_OW MWD+IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.00	4500.000	26.206	182.519	4239.989	17.298 -0.0	00 18	3.385	0.000	7.640	0.000	0.000	18.385	16.667	2.369	XOMR2_OWSG MWD+IFR1+MS
4800.000 26.206 182.519 4509.152 18.681 -0.000 19.876 0.000 8.311 0.000 0.000 19.876 17.908 2.323 XOMR2_OW MWD+IFR1+ 4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD+IFR1+ 5000.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.765 0.000 0.000 20.874 18.739 2.298 XOMR2_OW MWD+IFR1+ 5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.155 2.286 XOMR2_OW MWD+IFR1+ 5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 23.379 20.409 2.256 XOMR2_OW MWD+IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 526.919 22.397 0.000 23.882 0.000	4600.000	26.206	182.519	4329.710	17.758 -0.0	00 18	3.881	0.000	7.863	0.000	0.000	18.881	17.080	2.352	XOMR2_OWSG MWD+IFR1+MS
4900.000 26.206 182.519 4598.873 19.144 -0.000 20.374 0.000 8.537 0.000 0.000 20.375 18.323 2.310 XOMR2_OW MWD+IFR1+ 5000.000 26.206 182.519 4688.594 19.607 -0.000 20.874 0.000 8.765 0.000 0.000 20.874 18.739 2.298 XOMR2_OW MWD+IFR1+ 5100.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 XOMR2_OW MWD+IFR1+ 5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.573 2.276 XOMR2_OW MWD+IFR1+ 5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 22.877 20.409 2.256 XOMR2_OW MWD+IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5226.919 22.397 0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW	4700.000	26.206	182.519	4419.431	18.219 -0.0	00 19	.378	0.000	8.086	0.000	0.000	19.378	17.493	2.337	XOMR2_OWSG MWD+IFR1+MS
\$\frac{4900.000}{26.206}\$  \text{182.519}\$  \text{4688.594}\$  \text{19.607}  \cdot 0.000  \text{20.374}  0.000  \text{8.765}  0.000  0.000  \text{20.373}  \text{18.739}  \text{2.298}  \text{XOMR2_OW} \\ \text{MWD+IFR1+}\$ \$\frac{5000.000}{26.206}\$  \text{182.519}\$  \text{4688.594}\$   \text{19.607}  \text{-0.000}   \text{21.374}  0.000   \text{8.994}  0.000  0.000   21.374   19.155    \text{2.286}  \text{XOMR2_OW} \\ \text{MWD+IFR1+}\$ \$\frac{5200.000}{26.206}\$    \text{182.519}\$     \text{468.036}   \	4800.000	26.206	182.519	4509.152	18.681 -0.0	00 19	).876	0.000	8.311	0.000	0.000	19.876	17.908	2.323	XOMR2_OWSG MWD+IFR1+MS
5100.000 26.206 182.519 4778.315 20.071 -0.000 21.374 0.000 8.994 0.000 0.000 21.374 19.155 2.286 MWD+IFR1+  5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.573 2.276 MWD+IFR1+  5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 MWD+IFR1+  5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 22.877 20.409 2.256 MWD+IFR1+  5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 MWD+IFR1+  5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 MWD+IFR1+	4900.000	26.206	182.519	4598.873	19.144 -0.0	00 20	).374	0.000	8.537	0.000	0.000	20.375	18.323	2.310	XOMR2_OWSG MWD+IFR1+MS
5200.000 26.206 182.519 4868.036 20.535 -0.000 21.874 0.000 9.224 0.000 0.000 21.874 19.573 2.276 XOMR2_OW MWD+IFR1+ 5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 22.877 20.409 2.256 XOMR2_OW MWD+IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5316.640 23.864 0.000 24.885 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5316.640 23.864 0.000 24.885 0.000 10.156 0.000 0.000 24.885 31.660 23.231 XOMR2_OW	5000.000	26.206	182.519	4688.594	19.607 -0.0	00 20	).874	0.000	8.765	0.000	0.000	20.874	18.739	2.298	XOMR2_OWSG MWD+IFR1+MS
5300.000 26.206 182.519 4957.757 21.000 -0.000 22.375 0.000 9.455 0.000 0.000 22.376 19.991 2.266 XOMR2_OW MWD+IFR1+ 5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 22.877 20.409 2.256 XOMR2_OW MWD+IFR1+ 5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+ 5700.000 26.206 182.519 5316.640 23.864 0.000 24.385 0.000 10.383 0.000 0.000 24.385 21.660 23.231 XOMR2_OW	5100.000	26.206	182.519	4778.315	20.071 -0.0	00 21	.374	0.000	8.994	0.000	0.000	21.374	19.155	2.286	XOMR2_OWSG MWD+IFR1+MS
5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.688 0.000 0.000 22.877 20.409 2.256 MWD+IFR1+  5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 MWD+IFR1+  5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 MWD+IFR1+  5700.000 26.206 182.510 5316.640 23.864 0.000 24.385 0.000 10.303 0.000 24.385 21.660 23.34 XOMR2_OW	5200.000	26.206	182.519	4868.036	20.535 -0.0	00 21	.874	0.000	9.224	0.000	0.000	21.874	19.573	2.276	XOMR2_OWSG MWD+IFR1+MS
5400.000 26.206 182.519 5047.478 21.465 -0.000 22.877 0.000 9.888 0.000 0.000 22.877 20.409 2.256 MWD+IFR1+  5500.000 26.206 182.519 5137.199 21.931 -0.000 23.379 0.000 9.921 0.000 0.000 23.379 20.829 2.248 XOMR2_OW MWD+IFR1+  5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 XOMR2_OW MWD+IFR1+	5300.000	26.206	182.519	4957.757	21.000 -0.0	00 22	2.375	0.000	9.455	0.000	0.000	22.376	19.991	2.266	XOMR2_OWSG MWD+IFR1+MS
500.000 26.206 182.519 5137.199 21.931 -0.000 23.879 0.000 9.921 0.000 0.000 23.879 20.629 2.240 MWD+IFR1+  5600.000 26.206 182.519 5226.919 22.397 -0.000 23.882 0.000 10.156 0.000 0.000 23.882 21.248 2.239 MWD+IFR1+  5700.000 26.206 182.510 5316.640 23.864 0.000 24.385 0.000 10.303 0.000 0.000 24.385 21.660 2.231 XOMR2_OW	5400.000	26.206	182.519	5047.478	21.465 -0.0	00 22	2.877	0.000	9.688	0.000	0.000	22.877	20.409	2.256	XOMR2_OWSG MWD+IFR1+MS
5700,000 26,206 182,519 5226,819 22,537 -0.000 25,502 0.000 10,100 0.000 0.000 25,502 21,240 2.259 MWD+IFR1+	5500.000	26.206	182.519	5137.199	21.931 -0.0	00 23	3.379	0.000	9.921	0.000	0.000	23.379	20.829	2.248	XOMR2_OWSG MWD+IFR1+MS
5700.000 26.206 182.519 5316.640 22.864 -0.000 24.385 0.000 10.392 0.000 0.000 24.385 21.669 2.231 XOMR2_OW MWD+IFR1+	5600.000	26.206	182.519	5226.919	22.397 -0.0	00 23	3.882	0.000	10.156	0.000	0.000	23.882	21.248	2.239	XOMR2_OWSG MWD+IFR1+MS
	5700.000	26.206	182.519	5316.640	22.864 -0.0	00 24	.385	0.000	10.392	0.000	0.000	24.385	21.669	2.231	XOMR2_OWSG MWD+IFR1+MS

5720.345	26.206	182.519	5334.895	22.959 -0	0.000	24.487 0	0.000	10.441	0.000	0.000	24.487	21.754	2.230	XOMR2_OWSG MWD+IFR1+MS
5800.000	24.613	182.519	5406.841	23.377 -0	0.000	24.884 0	0.000	10.628	0.000	0.000	24.884	22.087	2.224	XOMR2_OWSG MWD+IFR1+MS
5900.000	22.613	182.519	5498.463	23.870 -0	0.000	25.369 0	0.000	10.852	0.000	0.000	25.369	22.502	2.217	XOMR2_OWSG MWD+IFR1+MS
6000.000	20.613	182.519	5591.428	24.324 -0	0.000	25.840 0	0.000	11.064	0.000	0.000	25.840	22.911	2.210	XOMR2_OWSG MWD+IFR1+MS
6100.000	18.613	182.519	5685.621	24.738 -0	0.000	26.295 0	0.000	11.262	0.000	0.000	26.295	23.316	2.203	XOMR2_OWSG MWD+IFR1+MS
6200.000	16.613	182.519	5780.928	25.113 -0	0.000	26.735 0	0.000	11.447	0.000	0.000	26.735	23.713	2.197	XOMR2_OWSG MWD+IFR1+MS
6300.000	14.613	182.519	5877.233	25.446 -0	0.000	27.158 0	0.000	11.620	0.000	0.000	27.158	24.102	2.191	XOMR2_OWSG MWD+IFR1+MS
6400.000	12.613	182.519	5974.419	25.738 -	0.000	27.565 0	0.000	11.781	0.000	0.000	27.565	24.481	2.185	XOMR2_OWSG MWD+IFR1+MS
6500.000	10.613	182.519	6072.367	25.988 -0	0.000	27.955 0	0.000	11.932	0.000	0.000	27.955	24.850	2.179	XOMR2_OWSG MWD+IFR1+MS
6600.000	8.613	182.519	6170.958	26.196 -0	0.000	28.328 0	0.000	12.073	0.000	0.000	28.328	25.208	2.174	XOMR2_OWSG MWD+IFR1+MS
6700.000	6.613	182.519	6270.071	26.361 -0	0.000	28.683 0	0.000	12.205	0.000	0.000	28.683	25.554	2.169	XOMR2_OWSG MWD+IFR1+MS
6800.000	4.613	182.519	6369.587	26.483 -0	0.000	29.022 0	0.000	12.330	0.000	0.000	29.022	25.887	2.165	XOMR2_OWSG MWD+IFR1+MS
6900.000	2.613	182.519	6469.383	26.562 -0	0.000	29.343 0	0.000	12.448	0.000	0.000	29.343	26.206	2.161	XOMR2_OWSG MWD+IFR1+MS
7000.000	0.613	182.519	6569.338	26.600 -	0.000	29.648 0	0.000	12.560	0.000	0.000	29.648	26.512	2.157	XOMR2_OWSG MWD+IFR1+MS
7030.662	0.000	0.000	6600.000	26.604	0.000	29.727 0	0.000	12.594	0.000	0.000	29.731	26.600	2.159	XOMR2_OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6669.338	26.795	0.000	29.898 0	0.000	12.669	0.000	0.000	29.902	26.790	2.170	XOMR2_OWSG MWD+IFR1+MS
7200.000	0.000	0.000	6769.338	27.072	0.000	30.147 0	0.000	12.781	0.000	0.000	30.151	27.068	2.186	XOMR2_OWSG MWD+IFR1+MS
7300.000	0.000	0.000	6869.338	27.351	0.000	30.398 0	0.000	12.895	0.000	0.000	30.402	27.347	2.201	XOMR2_OWSG MWD+IFR1+MS
7400.000	0.000	0.000	6969.338	27.632	0.000	30.651 0	0.000	13.013	0.000	0.000	30.656	27.627	2.217	XOMR2_OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7069.338	27.915	0.000	30.907 0	0.000	13.133	0.000	0.000	30.911	27.910	2.233	XOMR2_OWSG MWD+IFR1+MS

7600.000	0.000	0.000	7169.338	28.199	0.000	31.164	0.000	13.257	0.000	0.000	31.168	28.194	2.249	XOMR2_OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7269.338	28.485	0.000	31.423	0.000	13.383	0.000	0.000	31.428	28.480	2.265	XOMR2_OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7369.338	28.773	0.000	31.684	0.000	13.513	0.000	0.000	31.689	28.768	2.280	XOMR2_OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7469.338	29.062	0.000	31.948	0.000	13.646	0.000	0.000	31.952	29.057	2.296	XOMR2_OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7569.338	29.353	0.000	32.213	0.000	13.782	0.000	0.000	32.217	29.348	2.312	XOMR2_OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7669.338	29.645	0.000	32.479	0.000	13.921	0.000	0.000	32.484	29.640	2.328	XOMR2_OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7769.338	29.939	0.000	32.748	0.000	14.064	0.000	0.000	32.752	29.934	2.343	XOMR2_OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7869.338	30.234	0.000	33.018	0.000	14.210	0.000	0.000	33.023	30.229	2.359	XOMR2_OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7969.338	30.530	0.000	33.290	0.000	14.359	0.000	0.000	33.295	30.525	2.375	XOMR2_OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8069.338	30.828	0.000	33.563	0.000	14.512	0.000	0.000	33.568	30.823	2.391	XOMR2_OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8169.338	31.127	0.000	33.839	0.000	14.667	0.000	0.000	33.843	31.122	2.406	XOMR2_OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8269.338	31.427	0.000	34.115	0.000	14.827	0.000	0.000	34.120	31.422	2.422	XOMR2_OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8369.338	31.729	0.000	34.393	0.000	14.989	0.000	0.000	34.398	31.723	2.438	XOMR2_OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8469.338	32.031	0.000	34.673	0.000	15.155	0.000	0.000	34.678	32.026	2.454	XOMR2_OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8569.338	32.335	0.000	34.954	0.000	15.325	0.000	0.000	34.959	32.330	2.469	XOMR2_OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8669.338	32.640	0.000	35.237	0.000	15.498	0.000	0.000	35.241	32.635	2.485	XOMR2_OWSG MWD+IFR1+MS
9166.465	0.000	0.000	8735.803	32.843	0.000	35.425	0.000	15.614	0.000	0.000	35.430	32.838	2.496	XOMR2_OWSG MWD+IFR1+MS
9200.000	2.683	359.739	8769.325	32.549	0.000	35.518	0.000	15.673	0.000	0.000	35.524	32.938	2.500	XOMR2_OWSG MWD+IFR1+MS
9300.000	10.683	359.739	8868.565	31.296	0.000	35.784	0.000	15.838	0.000	0.000	35.789	33.198	2.505	XOMR2_OWSG MWD+IFR1+MS
9400.000	18.683	359.739	8965.221	29.523	0.000	36.025	0.000	15.995	0.000	0.000	36.031	33.402	2.492	XOMR2_OWSG MWD+IFR1+MS

9500.000	26.683	359.739	9057.412	27.304	0.000	36.240 0.000	16.152	0.000	0.000	36.246	33.547	2.460	XOMR2_OWSG MWD+IFR1+MS
9600.000	34.683	359.739	9143.342	24.746	0.000	36.430 0.000	16.322	0.000	0.000	36.436	33.636	2.408	XOMR2_OWSG MWD+IFR1+MS
9700.000	42.683	359.739	9221.341	22.007	0.000	36.596 0.000	16.514	0.000	0.000	36.601	33.674	2.339	XOMR2_OWSG MWD+IFR1+MS
9800.000	50.683	359.739	9289.889	19.316	0.000	36.737 0.000	16.740	0.000	0.000	36.743	33.672	2.260	XOMR2_OWSG MWD+IFR1+MS
9900.000	58.683	359.739	9347.652	17.010	0.000	36.857 0.000	17.008	0.000	0.000	36.862	33.640	2.174	XOMR2_OWSG MWD+IFR1+MS
10000.000	66.683	359.739	9393.506	15.540	0.000	36.956 0.000	17.324	0.000	0.000	36.961	33.592	2.087	XOMR2_OWSG MWD+IFR1+MS
10100.000	74.683	359.739	9426.559	15.330	0.000	37.036 0.000	17.689	0.000	0.000	37.041	33.540	2.002	XOMR2_OWSG MWD+IFR1+MS
10200.000	82.683	359.739	9446.167	16.492	0.000	37.097 0.000	18.100	0.000	0.000	37.102	33.499	1.925	XOMR2_OWSG MWD+IFR1+MS
10291.465	90.000	359.739	9452.000	18.508	0.000	37.137 0.000	18.508	0.000	0.000	37.142	33.483	1.864	XOMR2_OWSG MWD+IFR1+MS
10300.000	90.000	359.739	9452.000	18.548	0.000	37.139 0.000	18.548	0.000	0.000	37.144	33.484	1.860	XOMR2_OWSG MWD+IFR1+MS
10400.000	90.000	359.739	9452.000	19.020	0.000	37.187 0.000	19.020	0.000	0.000	37.191	33.479	1.792	XOMR2_OWSG MWD+IFR1+MS
10500.000	90.000	359.739	9452.000	19.513	0.000	37.255 0.000	19.513	0.000	0.000	37.259	33.475	1.716	XOMR2_OWSG MWD+IFR1+MS
10600.000	90.000	359.739	9452.000	20.025	0.000	37.344 0.000	20.025	0.000	0.000	37.348	33.471	1.632	XOMR2_OWSG MWD+IFR1+MS
10700.000	90.000	359.739	9452.000	20.554	0.000	37.453 0.000	20.554	0.000	0.000	37.457	33.468	1.542	XOMR2_OWSG MWD+IFR1+MS
10800.000	90.000	359.739	9452.000	21.099	0.000	37.583 0.000	21.099	0.000	0.000	37.586	33.466	1.449	XOMR2_OWSG MWD+IFR1+MS
10900.000	90.000	359.739	9452.000	21.658	0.000	37.732 0.000	21.658	0.000	0.000	37.736	33.464	1.354	XOMR2_OWSG MWD+IFR1+MS
11000.000	90.000	359.739	9452.000	22.231	0.000	37.902 0.000	22.231	0.000	0.000	37.905	33.464	1.258	XOMR2_OWSG MWD+IFR1+MS
11100.000	90.000	359.739	9452.000	22.817	0.000	38.091 0.000	22.817	0.000	0.000	38.094	33.463	1.164	XOMR2_OWSG MWD+IFR1+MS
11200.000	90.000	359.739	9452.000	23.414	0.000	38.300 0.000	23.414	0.000	0.000	38.302	33.464	1.071	XOMR2_OWSG MWD+IFR1+MS
11300.000	90.000	359.739	9452.000	24.023	0.000	38.527 0.000	24.023	0.000	0.000	38.530	33.465	0.981	XOMR2_OWSG MWD+IFR1+MS

11400.000	90.000	359.739	9452.000	24.641	0.000	38.774	0.000	24.641	0.000	0.000	38.776	33.466	0.895	XOMR2_OWSG MWD+IFR1+MS
11500.000	90.000	359.739	9452.000	25.268	0.000	39.038	0.000	25.268	0.000	0.000	39.040	33.468	0.813	XOMR2_OWSG MWD+IFR1+MS
11600.000	90.000	359.739	9452.000	25.904	0.000	39.321	0.000	25.904	0.000	0.000	39.322	33.471	0.736	XOMR2_OWSG MWD+IFR1+MS
11700.000	90.000	359.739	9452.000	26.548	0.000	39.621	0.000	26.548	0.000	0.000	39.622	33.475	0.663	XOMR2_OWSG MWD+IFR1+MS
11800.000	90.000	359.739	9452.000	27.200	0.000	39.938	0.000	27.200	0.000	0.000	39.939	33.479	0.594	XOMR2_OWSG MWD+IFR1+MS
11900.000	90.000	359.739	9452.000	27.858	0.000	40.272	0.000	27.858	0.000	0.000	40.273	33.484	0.530	XOMR2_OWSG MWD+IFR1+MS
12000.000	90.000	359.739	9452.000	28.523	0.000	40.622	0.000	28.523	0.000	0.000	40.623	33.489	0.470	XOMR2_OWSG MWD+IFR1+MS
12100.000	90.000	359.739	9452.000	29.193	0.000	40.989	0.000	29.193	0.000	0.000	40.990	33.495	0.414	XOMR2_OWSG MWD+IFR1+MS
12200.000	90.000	359.739	9452.000	29.869	0.000	41.370	0.000	29.869	0.000	0.000	41.371	33.502	0.363	XOMR2_OWSG MWD+IFR1+MS
12300.000	90.000	359.739	9452.000	30.551	0.000	41.767	0.000	30.551	0.000	0.000	41.768	33.509	0.315	XOMR2_OWSG MWD+IFR1+MS
12400.000	90.000	359.739	9452.000	31.237	0.000	42.179	0.000	31.237	0.000	0.000	42.179	33.517	0.270	XOMR2_OWSG MWD+IFR1+MS
12500.000	90.000	359.739	9452.000	31.928	0.000	42.605	0.000	31.928	0.000	0.000	42.605	33.525	0.229	XOMR2_OWSG MWD+IFR1+MS
12600.000	90.000	359.739	9452.000	32.623	0.000	43.044	0.000	32.623	0.000	0.000	43.045	33.535	0.191	XOMR2_OWSG MWD+IFR1+MS
12700.000	90.000	359.739	9452.000	33.322	0.000	43.497	0.000	33.322	0.000	0.000	43.498	33.544	0.156	XOMR2_OWSG MWD+IFR1+MS
12800.000	90.000	359.739	9452.000	34.024	0.000	43.963	0.000	34.024	0.000	0.000	43.963	33.555	0.124	XOMR2_OWSG MWD+IFR1+MS
12900.000	90.000	359.739	9452.000	34.731	0.000	44.442	0.000	34.731	0.000	0.000	44.442	33.566	0.094	XOMR2_OWSG MWD+IFR1+MS
13000.000	90.000	359.739	9452.000	35.440	0.000	44.932	0.000	35.440	0.000	0.000	44.933	33.578	0.066	XOMR2_OWSG MWD+IFR1+MS
13100.000	90.000	359.739	9452.000	36.153	0.000	45.435	0.000	36.153	0.000	0.000	45.435	33.590	0.040	XOMR2_OWSG MWD+IFR1+MS
13200.000	90.000	359.739	9452.000	36.869	0.000	45.948	0.000	36.869	0.000	0.000	45.949	33.603	0.016	XOMR2_OWSG MWD+IFR1+MS
13300.000	90.000	359.739	9452.000	37.587	0.000	46.473	0.000	37.587	0.000	0.000	46.474	33.617	-0.006	XOMR2_OWSG MWD+IFR1+MS

13400.000	90.000	359.739	9452.000	38.308	0.000	47.009 0.000	38.308	0.000	0.000	47.009	33.631	<b>-</b> 0.026	XOMR2_OWSG MWD+IFR1+MS
13500.000	90.000	359.739	9452.000	39.031	0.000	47.555 0.000	39.031	0.000	0.000	47.555	33.646	<b>-</b> 0.045	XOMR2_OWSG MWD+IFR1+MS
13600.000	90.000	359.739	9452.000	39.757	0.000	48.110 0.000	39.757	0.000	0.000	48.110	33.661	-0.062	XOMR2_OWSG MWD+IFR1+MS
13700.000	90.000	359.739	9452.000	40.485	0.000	48.676 0.000	40.485	0.000	0.000	48.676	33.677	-0.079	XOMR2_OWSG MWD+IFR1+MS
13800.000	90.000	359.739	9452.000	41.215	0.000	49.250 0.000	41.215	0.000	0.000	49.250	33.694	-0.094	XOMR2_OWSG MWD+IFR1+MS
13900.000	90.000	359.739	9452.000	41.947	0.000	49.834 0.000	41.947	0.000	0.000	49.834	33.712	-0.108	XOMR2_OWSG MWD+IFR1+MS
14000.000	90.000	359.739	9452.000	42.681	0.000	50.426 0.000	42.681	0.000	0.000	50.426	33.730	-0.121	XOMR2_OWSG MWD+IFR1+MS
14100.000	90.000	359.739	9452.000	43.417	0.000	51.026 0.000	43.417	0.000	0.000	51.026	33.748	-0.133	XOMR2_OWSG MWD+IFR1+MS
14200.000	90.000	359.739	9452.000	44.154	0.000	51.635 0.000	44.154	0.000	0.000	51.635	33.768	-0.145	XOMR2_OWSG MWD+IFR1+MS
14300.000	90.000	359.739	9452.000	44.893	0.000	52.251 0.000	44.893	0.000	0.000	52.251	33.787	-0.155	XOMR2_OWSG MWD+IFR1+MS
14400.000	90.000	359.739	9452.000	45.634	0.000	52.875 0.000	45.634	0.000	0.000	52.875	33.808	-0.165	XOMR2_OWSG MWD+IFR1+MS
14500.000	90.000	359.739	9452.000	46.376	0.000	53.506 0.000	46.376	0.000	0.000	53.506	33.829	-0.174	XOMR2_OWSG MWD+IFR1+MS
14600.000	90.000	359.739	9452.000	47.119	0.000	54.144 0.000	47.119	0.000	0.000	54.144	33.851	-0.183	XOMR2_OWSG MWD+IFR1+MS
14700.000	90.000	359.739	9452.000	47.864	0.000	54.788 0.000	47.864	0.000	0.000	54.788	33.873	-0.191	XOMR2_OWSG MWD+IFR1+MS
14800.000	90.000	359.739	9452.000	48.610	0.000	55.439 0.000	48.610	0.000	0.000	55.439	33.896	-0.198	XOMR2_OWSG MWD+IFR1+MS
14900.000	90.000	359.739	9452.000	49.357	0.000	56.097 0.000	49.357	0.000	0.000	56.097	33.920	-0.205	XOMR2_OWSG MWD+IFR1+MS
15000.000	90.000	359.739	9452.000	50.105	0.000	56.760 0.000	50.105	0.000	0.000	56.760	33.944	-0.212	XOMR2_OWSG MWD+IFR1+MS
15100.000	90.000	359.739	9452.000	50.854	0.000	57.430 0.000	50.854	0.000	0.000	57.430	33.969	<b>-</b> 0.218	XOMR2_OWSG MWD+IFR1+MS
15200.000	90.000	359.739	9452.000	51.605	0.000	58.104 0.000	51.605	0.000	0.000	58.105	33.995	-0.224	XOMR2_OWSG MWD+IFR1+MS
15300.000	90.000	359.739	9452.000	52.356	0.000	58.785 0.000	52.356	0.000	0.000	58.785	34.021	-0.229	XOMR2_OWSG MWD+IFR1+MS

1	15400.000	90.000	359.739	9452.000	53.109	0.000	59.471	0.000	53.109	0.000	0.000	59.471	34.048	-0.234	XOMR2_OWSG MWD+IFR1+MS
1	15500.000	90.000	359.739	9452.000	53.862	0.000	60.161	0.000	53.862	0.000	0.000	60.161	34.075	-0.239	XOMR2_OWSG MWD+IFR1+MS
,	15600.000	90.000	359.739	9452.000	54.616	0.000	60.857	0.000	54.616	0.000	0.000	60.857	34.103	-0.243	XOMR2_OWSG MWD+IFR1+MS
,	15700.000	90.000	359.739	9452.000	55.371	0.000	61.557	0.000	55.371	0.000	0.000	61.557	34.132	-0.248	XOMR2_OWSG MWD+IFR1+MS
,	15800.000	90.000	359.739	9452.000	56.127	0.000	62.262	0.000	56.127	0.000	0.000	62.262	34.161	-0.252	XOMR2_OWSG MWD+IFR1+MS
,	15900.000	90.000	359.739	9452.000	56.884	0.000	62.972	0.000	56.884	0.000	0.000	62.972	34.190	-0.255	XOMR2_OWSG MWD+IFR1+MS
1	16000.000	90.000	359.739	9452.000	57.641	0.000	63.685	0.000	57.641	0.000	0.000	63.685	34.221	-0.259	XOMR2_OWSG MWD+IFR1+MS
1	16100.000	90.000	359.739	9452.000	58.399	0.000	64.403	0.000	58.399	0.000	0.000	64.403	34.252	-0.262	XOMR2_OWSG MWD+IFR1+MS
1	16200.000	90.000	359.739	9452.000	59.158	0.000	65.125	0.000	59.158	0.000	0.000	65.125	34.283	-0.265	XOMR2_OWSG MWD+IFR1+MS
1	16300.000	90.000	359.739	9452.000	59.918	0.000	65.851	0.000	59.918	0.000	0.000	65.851	34.316	-0.268	XOMR2_OWSG MWD+IFR1+MS
,	16400.000	90.000	359.739	9452.000	60.678	0.000	66.580	0.000	60.678	0.000	0.000	66.580	34.348	-0.271	XOMR2_OWSG MWD+IFR1+MS
,	16500.000	90.000	359.739	9452.000	61.439	0.000	67.313	0.000	61.439	0.000	0.000	67.313	34.382	-0.273	XOMR2_OWSG MWD+IFR1+MS
1	16600.000	90.000	359.739	9452.000	62.200	0.000	68.049	0.000	62.200	0.000	0.000	68.049	34.416	-0.276	XOMR2_OWSG MWD+IFR1+MS
1	16700.000	90.000	359.739	9452.000	62.962	0.000	68.789	0.000	62.962	0.000	0.000	68.789	34.450	-0.278	XOMR2_OWSG MWD+IFR1+MS
1	16800.000	90.000	359.739	9452.000	63.725	0.000	69.533	0.000	63.725	0.000	0.000	69.533	34.486	-0.280	XOMR2_OWSG MWD+IFR1+MS
1	16900.000	90.000	359.739	9452.000	64.488	0.000	70.279	0.000	64.488	0.000	0.000	70.279	34.521	-0.282	XOMR2_OWSG MWD+IFR1+MS
1	17000.000	90.000	359.739	9452.000	65.251	0.000	71.028	0.000	65.251	0.000	0.000	71.028	34.558	-0.284	XOMR2_OWSG MWD+IFR1+MS
1	17100.000	90.000	359.739	9452.000	66.015	0.000	71.781	0.000	66.015	0.000	0.000	71.781	34.595	-0.286	XOMR2_OWSG MWD+IFR1+MS
1	17200.000	90.000	359.739	9452.000	66.780	0.000	72.536	0.000	66.780	0.000	0.000	72.536	34.632	-0.288	XOMR2_OWSG MWD+IFR1+MS
1	17300.000	90.000	359.739	9452.000	67.545	0.000	73.294	0.000	67.545	0.000	0.000	73.294	34.670	-0.289	XOMR2_OWSG MWD+IFR1+MS

1	17400.000	90.000	359.739	9452.000	68.310	0.000	74.055 0.000	68.310	0.000	0.000	74.055	34.709	-0.291	XOMR2_OWSG MWD+IFR1+MS
1	17500.000	90.000	359.739	9452.000	69.076	0.000	74.818 0.000	69.076	0.000	0.000	74.818	34.748	-0.292	XOMR2_OWSG MWD+IFR1+MS
1	17600.000	90.000	359.739	9452.000	69.842	0.000	75.584 0.000	69.842	0.000	0.000	75.584	34.788	-0.293	XOMR2_OWSG MWD+IFR1+MS
1	17700.000	90.000	359.739	9452.000	70.609	0.000	76.353 0.000	70.609	0.000	0.000	76.353	34.829	-0.295	XOMR2_OWSG MWD+IFR1+MS
1	17800.000	90.000	359.739	9452.000	71.376	0.000	77.124 0.000	71.376	0.000	0.000	77.124	34.870	-0.296	XOMR2_OWSG MWD+IFR1+MS
1	17900.000	90.000	359.739	9452.000	72.144	0.000	77.897 0.000	72.144	0.000	0.000	77.897	34.911	-0.297	XOMR2_OWSG MWD+IFR1+MS
1	18000.000	90.000	359.739	9452.000	72.911	0.000	78.672 0.000	72.911	0.000	0.000	78.672	34.953	-0.298	XOMR2_OWSG MWD+IFR1+MS
1	18100.000	90.000	359.739	9452.000	73.680	0.000	79.450 0.000	73.680	0.000	0.000	79.450	34.996	-0.299	XOMR2_OWSG MWD+IFR1+MS
1	18200.000	90.000	359.739	9452.000	74.448	0.000	80.230 0.000	74.448	0.000	0.000	80.230	35.039	-0.300	XOMR2_OWSG MWD+IFR1+MS
1	18300.000	90.000	359.739	9452.000	75.217	0.000	81.012 0.000	75.217	0.000	0.000	81.012	35.083	-0.301	XOMR2_OWSG MWD+IFR1+MS
1	18400.000	90.000	359.739	9452.000	75.986	0.000	81.796 0.000	75.986	0.000	0.000	81.796	35.127	-0.302	XOMR2_OWSG MWD+IFR1+MS
1	18500.000	90.000	359.739	9452.000	76.756	0.000	82.581 0.000	76.756	0.000	0.000	82.581	35.172	-0.302	XOMR2_OWSG MWD+IFR1+MS
1	18600.000	90.000	359.739	9452.000	77.526	0.000	83.369 0.000	77.526	0.000	0.000	83.369	35.218	-0.303	XOMR2_OWSG MWD+IFR1+MS
1	18700.000	90.000	359.739	9452.000	78.296	0.000	84.159 0.000	78.296	0.000	0.000	84.159	35.264	-0.304	XOMR2_OWSG MWD+IFR1+MS
1	18800.000	90.000	359.739	9452.000	79.066	0.000	84.950 0.000	79.066	0.000	0.000	84.950	35.311	-0.305	XOMR2_OWSG MWD+IFR1+MS
1	18900.000	90.000	359.739	9452.000	79.837	0.000	85.743 0.000	79.837	0.000	0.000	85.743	35.358	-0.305	XOMR2_OWSG MWD+IFR1+MS
1	19000.000	90.000	359.739	9452.000	80.608	0.000	86.538 0.000	80.608	0.000	0.000	86.538	35.405	-0.306	XOMR2_OWSG MWD+IFR1+MS
1	19100.000	90.000	359.739	9452.000	81.379	0.000	87.334 0.000	81.379	0.000	0.000	87.334	35.454	-0.306	XOMR2_OWSG MWD+IFR1+MS
1	19200.000	90.000	359.739	9452.000	82.151	0.000	88.132 0.000	82.151	0.000	0.000	88.132	35.502	-0.307	XOMR2_OWSG MWD+IFR1+MS
1	19300.000	90.000	359.739	9452.000	82.922	0.000	88.932 0.000	82.922	0.000	0.000	88.932	35.552	-0.307	XOMR2_OWSG MWD+IFR1+MS

19400.000	90.000	359.739	9452.000	83.694	0.000	89.733 0.000	83.694	0.000	0.000	89.733	35.602	-0.308 XOMR2_OWSG MWD+IFR1+MS	
19500.000	90.000	359.739	9452.000	84.466	0.000	90.536 0.000	84.466	0.000	0.000	90.536	35.652	-0.308 XOMR2_OWSG MWD+IFR1+MS	
19600.000	90.000	359.739	9452.000	85.239	0.000	91.340 0.000	85.239	0.000	0.000	91.340	35.703	-0.309 XOMR2_OWSG MWD+IFR1+MS	} S
19700.000	90.000	359.739	9452.000	86.012	0.000	92.145 0.000	86.012	0.000	0.000	92.145	35.754	-0.309 XOMR2_OWSG MWD+IFR1+MS	
19800.000	90.000	359.739	9452.000	86.785	0.000	92.952 0.000	86.785	0.000	0.000	92.952	35.806	-0.309 XOMR2_OWSG MWD+IFR1+MS	
19900.000	90.000	359.739	9452.000	87.558	0.000	93.760 0.000	87.558	0.000	0.000	93.760	35.859	-0.310 XOMR2_OWSG MWD+IFR1+MS	} S
20000.000	90.000	359.739	9452.000	88.331	0.000	94.569 0.000	88.331	0.000	0.000	94.569	35.912	-0.310 XOMR2_OWSG MWD+IFR1+MS	) 3
20100.000	90.000	359.739	9452.000	89.104	0.000	95.380 0.000	89.104	0.000	0.000	95.380	35.966	-0.310 XOMR2_OWSG MWD+IFR1+MS	
20200.000	90.000	359.739	9452.000	89.878	0.000	96.192 0.000	89.878	0.000	0.000	96.192	36.020	-0.310 XOMR2_OWSG MWD+IFR1+MS	
20300.000	90.000	359.739	9452.000	90.652	0.000	97.005 0.000	90.652	0.000	0.000	97.005	36.074	-0.311 XOMR2_OWSG MWD+IFR1+MS	
20400.000	90.000	359.739	9452.000	91.426	0.000	97.819 0.000	91.426	0.000	0.000	97.819	36.129	-0.311 XOMR2_OWSG MWD+IFR1+MS	) 3
20500.000	90.000	359.739	9452.000	92.200	0.000	98.635 0.000	92.200	0.000	0.000	98.635	36.185	-0.311 XOMR2_OWSG MWD+IFR1+MS	
20600.000	90.000	359.739	9452.000	92.975	0.000	99.451 0.000	92.975	0.000	0.000	99.451	36.241	-0.311 XOMR2_OWSG MWD+IFR1+MS	) 3
20700.000	90.000	359.739	9452.000	93.749	0.000	100.269 0.000	93.749	0.000	0.000	100.269	36.298	-0.311 XOMR2_OWSG MWD+IFR1+MS	
20800.000	90.000	359.739	9452.000	94.524	0.000	101.088 0.000	94.524	0.000	0.000	101.088	36.355	-0.312 XOMR2_OWSG MWD+IFR1+MS	) 3
20900.000	90.000	359.739	9452.000	95.299	0.000	101.907 0.000	95.299	0.000	0.000	101.907	36.413	-0.312 XOMR2_OWSG MWD+IFR1+MS	
21000.000	90.000	359.739	9452.000	96.074	0.000	102.728 0.000	96.074	0.000	0.000	102.728	36.471	-0.312 XOMR2_OWSG MWD+IFR1+MS	
21100.000	90.000	359.739	9452.000	96.849	0.000	103.550 0.000	96.849	0.000	0.000	103.550	36.530	-0.312 XOMR2_OWSG MWD+IFR1+MS	
21200.000	90.000	359.739	9452.000	97.625	0.000	104.373 0.000	97.625	0.000	0.000	104.373	36.589	-0.312 XOMR2_OWSG MWD+IFR1+MS	) 3
21300.000	90.000	359.739	9452.000	98.400	0.000	105.196 0.000	98.400	0.000	0.000	105.196	36.648	-0.312 XOMR2_OWSG MWD+IFR1+MS	

21400.000	90.000	359.739 9452.000	99.176	0.000	106.021	0.000	99.176	0.000	0.000	106.021	36.709	-0.312	XOMR2_OWSG MWD+IFR1+MS
21500.000	90.000	359.739 9452.000	99.952	0.000	106.846	0.000	99.952	0.000	0.000	106.846	36.769	-0.312	XOMR2_OWSG MWD+IFR1+MS
21600.000	90.000	359.739 9452.000	100.728	0.000	107.672	0.000	100.728	0.000	0.000	107.672	36.830	-0.312	XOMR2_OWSG MWD+IFR1+MS
21700.000	90.000	359.739 9452.000	101.504	0.000	108.500	0.000	101.504	0.000	0.000	108.500	36.892	-0.313	XOMR2_OWSG MWD+IFR1+MS
21800.000	90.000	359.739 9452.000	102.280	0.000	109.328	0.000	102.280	0.000	0.000	109.328	36.954	-0.313	XOMR2_OWSG MWD+IFR1+MS
21900.000	90.000	359.739 9452.000	103.057	0.000	110.156	0.000	103.057	0.000	0.000	110.156	37.017	-0.313	XOMR2_OWSG MWD+IFR1+MS
22000.000	90.000	359.739 9452.000	103.833	0.000	110.986	0.000	103.833	0.000	0.000	110.986	37.080	-0.313	XOMR2_OWSG MWD+IFR1+MS
22100.000	90.000	359.739 9452.000	104.610	0.000	111.816	0.000	104.610	0.000	0.000	111.816	37.143	-0.313	XOMR2_OWSG MWD+IFR1+MS
22200.000	90.000	359.739 9452.000	105.387	0.000	112.648	0.000	105.387	0.000	0.000	112.648	37.207	-0.313	XOMR2_OWSG MWD+IFR1+MS
22300.000	90.000	359.739 9452.000	106.163	0.000	113.479	0.000	106.163	0.000	0.000	113.479	37.272	-0.313	XOMR2_OWSG MWD+IFR1+MS
22400.000	90.000	359.739 9452.000	106.940	0.000	114.312	0.000	106.940	0.000	0.000	114.312	37.337	-0.313	XOMR2_OWSG MWD+IFR1+MS
22500.000	90.000	359.739 9452.000	107.718	0.000	115.145	0.000	107.718	0.000	0.000	115.145	37.402	-0.313	XOMR2_OWSG MWD+IFR1+MS
22600.000	90.000	359.739 9452.000	108.495	0.000	115.979	0.000	108.495	0.000	0.000	115.979	37.468	-0.313	XOMR2_OWSG MWD+IFR1+MS
22700.000	90.000	359.739 9452.000	109.272	0.000	116.814	0.000	109.272	0.000	0.000	116.814	37.534	-0.313	XOMR2_OWSG MWD+IFR1+MS
22800.000	90.000	359.739 9452.000	110.049	0.000	117.650	0.000	110.049	0.000	0.000	117.650	37.601	-0.313	XOMR2_OWSG MWD+IFR1+MS
22900.000	90.000	359.739 9452.000	110.827	0.000	118.486	0.000	110.827	0.000	0.000	118.486	37.668	-0.313	XOMR2_OWSG MWD+IFR1+MS
23000.000	90.000	359.739 9452.000	111.605	0.000	119.322	0.000	111.605	0.000	0.000	119.322	37.736	-0.313	XOMR2_OWSG MWD+IFR1+MS
23100.000	90.000	359.739 9452.000	112.382	0.000	120.160	0.000	112.382	0.000	0.000	120.160	37.804	-0.312	XOMR2_OWSG MWD+IFR1+MS
23200.000	90.000	359.739 9452.000	113.160	0.000	120.998	0.000	113.160	0.000	0.000	120.998	37.873	-0.312	XOMR2_OWSG MWD+IFR1+MS
23300.000	90.000	359.739 9452.000	113.938	0.000	121.836	0.000	113.938	0.000	0.000	121.836	37.942	-0.312	XOMR2_OWSG MWD+IFR1+MS

23383.201	90.000 359.739 9452	.000 114.585	0.000 122	.534 0.000	114.585	0.000	0.000	122.534	37.999	-0.312 XOMR2_OWSG MWD+IFR1+MS
23400.000	90.000 359.739 9452	.000 114.716	0.000 122	.675 0.000	114.716	0.000	0.000	122.675	38.011	-0.312 XOMR2_OWSG MWD+IFR1+MS
23472.923	90.000 359.739 9452	.000 115.284	0.000 123	.287 0.000	115.284	0.000	0.000	123.287	38.062	-0.312 XOMR2_OWSG MWD+IFR1+MS

Plan Targets	Poker Lake Unit 20-8 BD 204H			
	Measured Depth	<b>Grid Northing</b>	<b>Grid Easting</b>	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 4	10291.40	403431.50	632481.30	6246.00 CIRCLE
LTP 4	23383.20	416523.10	632421.60	6246.00 CIRCLE
BHL 4	23473.20	416613.10	632421.20	6246.00 CIRCLE

## **Cement Variance Request**

### Intermediate Casing:

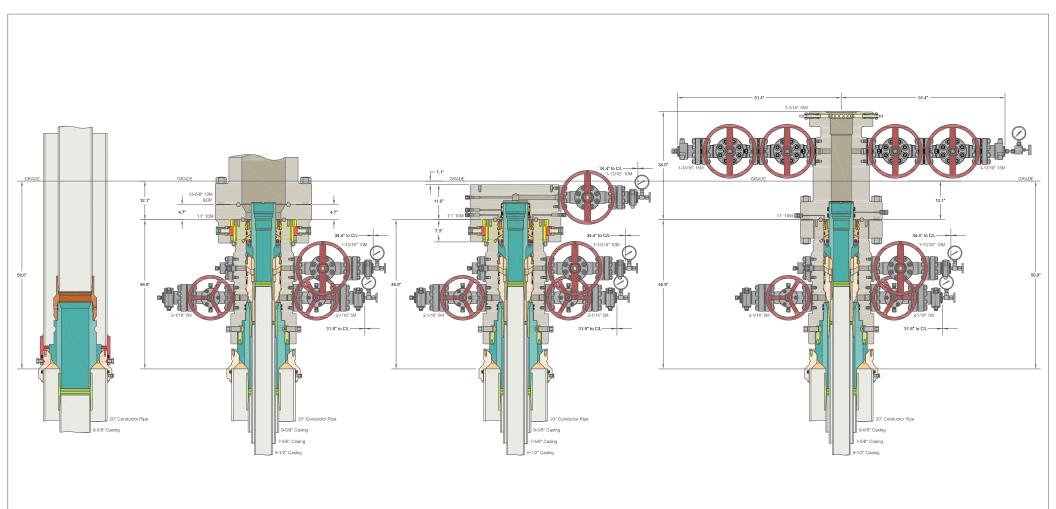
+ 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6182') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement verification.

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

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

#### Production Casing:

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



		ALL DIMENSIO	NS APPROX <b>I</b> MATE
CACTUS WELLHEAD LLC		XTO ENERGY IN DELAWARE BAS	_
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead	DRAWN	VJK	31MAR22
	APPRV		
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	DRAWING N	o. HBE000	0479

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC, REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

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

May 25, 2021		
<b>Effective</b> N		

Date: 07 / 29 / 2024	b) NMAC □ Other.
373075	□ 19.15.27.9.D(6)(
OGRID:	e to $\square$ 19.15.27.9.D(6)(a) NMAC $\square$ 19.15.27.9.D(6)(b) NMAC $\square$ Other.
XTO Permian Operating	☐ Amendment due
I. Operator:	II. Type: 🗵 Original

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.

If Other, please describe:

TBD         20         1434 FSL;         500         125         1,500         900         1,250           T25S         1904         R30E         FWL         1,100         125         2,750         900         3,750           T25S         1934         FWL         1,100         125         1,500         900         3,750           T25S         1934         FWL         1,200         125         1,500         900         1,250           T25S         1934         FWL         1,200         175         3,000         1,200         4,250           TBD         20         1431 FSL;         1,200         175         3,000         1,500         4,250           T25S         1994         FWL         175         3,000         1,200         1,500           T25S         1904 FEL         FWL         1,750         1,750         1,500         1,500           T25S         1813 FSL;         1,200         175         3,000         1,200         4,250           T25S         1604 FEL         1500         1,750         1,750         1,000         1,500           T25S         1574 FEL         1,200         1,75         3,000	API	ULSTR	Footages	Anticip ated Oil BBL/D	3 yr Anticipated decline Oil BBL/D	Anticipa ted Gas MCF/D	3 yr Anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr Anticipated decline Water
20         1433 FSL;         1,100         125         2,750         900           T25S         1934         800         125         1,500         900           T25S         1964         800         125         1,500         900           T25S         1964         800         175         3,000         1,200           T25S         1994         1,200         175         1,000           T25S         1430 FSL;         600         150         1,000           T25S         1604 FEL         1,200         1,50         1,000           T25S         1604 FEL         1,200         1,750         1,000           T25S         1574 FEL         1,200         1,750         1,000           T25S         1544 FEL         1,300         200         1,400           T25S         1514 FEL         1,300         200         1,400           T25S         1514 FEL         1,300         200         1,400		20 T25S R30E	1434 FSL; 1904 FWL	500	125	1,500	006	1,250	400
20         1432 FSL;         500         125         1,500         900           T25S         1964         R30E         FWL         1,200         175         3,000         1,200           T25S         1994         R30E         FWL         1,200         1,750         1,000           T25S         1994         R30E         FWL         1,000         1,000           T25S         1430 FSL;         600         150         1,750         1,000           T25S         1813 FSL;         1,200         1,750         1,000         1,200           T25S         1813 FSL;         600         150         1,750         1,000           T25S         1574 FEL         1,200         1,750         1,200         1,200           T25S         1544 FEL         R30E         1,300         1,200         1,400           T25S         1514 FEL         R30E         1,400         1,400           T25S         1514 FEL         R30E         1,400         1,400		20 T25S R30E	1433 FSL; 1934 FWL	1,100	125	2,750	006	3,750	700
20         1431FSL;         1,200         175         3,000         1,200           T25S         1994         R30E         FWL           20         1430FSL;         600         150         1,750         1,000           T25S         2024         R30E         1,750         1,000         1,200           T25S         1604 FEL         R30E         1,750         1,000         1,200           T25S         1574 FEL         R30E         1,200         1,750         1,200           T25S         1544 FEL         R30E         1514 FEL           R30E         1813 FSL;         1,300         200         3,500         1,400           T25S         1514 FEL         1,300         200         3,500         1,400           R30E         1514 FEL         R30E         1,400         1,400	Ω	20 T25S R30E	1432 FSL; 1964 FWL	500	125	1,500	006	1,250	400
20         1430 FSL;         600         150         1,750         1,000           T25S         2024         1813 FSL;         1,200         175         3,000         1,200           T25S         1604 FEL         1,200         150         1,750         1,000           T25S         1813 FSL;         600         150         1,750         1,000           T25S         1574 FEL         1,200         175         3,000         1,200           T25S         1544 FEL         1,300         200         3,500         1,400           T25S         1514 FEL         1,300         200         3,500         1,400           T25S         1514 FEL         1,300         200         3,500         1,400	Q	20 T25S R30E	1431 FSL; 1994 FWL	1,200	175	3,000	1,200	4,250	006
20       1813 FSL;       1,200       175       3,000       1,200         T25S       1604 FEL       1,200       1,50       1,000         R30E       1813 FSL;       600       150       1,750       1,000         T25S       1574 FEL       1,200       175       3,000       1,200         T25S       1544 FEL       1,300       200       3,500       1,400         T25S       1514 FEL       1,300       200       3,500       1,400         T25S       1514 FEL       1,300       200       3,500       1,400         R30E       1536E       1514 FEL       1,400       1,400	Ω	20 T25S R30E	1430 FSL; 2024 FWL	009	150	1,750	1,000	1,500	400
20       1813 FSL;       600       150       1,750       1,000         T25S       1574 FEL       830E       1,200       175       3,000       1,200         20       1813 FSL;       1,200       1,75       3,000       1,200         R30E       1836       1,300       200       3,500       1,400         125S       1514 FEL       1,400       1,400         R30E       1836       1,400       1,400	3D	20 T25S R30E	1813 FSL; 1604 FEL	1,200	175	3,000	1,200	4,250	006
20       1813 FSL;       1,200       175       3,000       1,200         T25S       1544 FEL         R30E       20       1813 FSL;       1,300       200       3,500       1,400         T25S       1514 FEL       R30E       1540C       1,400       1,400	3D	20 T25S R30E	1813 FSL; 1574 FEL	009	150	1,750	1,000	1,500	400
20         1813 FSL;         1,300         200         3,500         1,400           T25S         1514 FEL           R30E	BD	20 T25S R30E	1813 FSL; 1544 FEL	1,200	175	3,000	1,200	4,250	006
	ВД	20 T25S R30E	1813 FSL; 1514 FEL	1,300	200	3,500	1,400	4,750	1,100

006	006	400	006	400	700	400	700	400	700	009
4,750	4,250	1,500	4,250	1,500	3,750	1,250	3,750	1,250	3,750	4,000
2,700	1,200	1,000	1,200	1,000	006	006	006	006	006	1,700
7,250	3,000	1,750	3,000	1,750	2,750	1,500	2,750	1,500	2,750	5,500
75	175	150	175	150	125	125	125	125	125	50
009	1,200	009	1,200	009	1,100	500	1,100	500	1,100	500
1813 FSL; 1484 FEL	265 FNL; 2395 FEL	265 FNL; 2365 FEL	265 FNL; 2335 FEL	265 FNL; 2305 FEL	265 FNL; 2275 FEL	265 FNL; 1935 FEL	265 FNL; 1905 FEL	265 FNL; 1875 FEL	265 FNL; 1845 FEL	265 FNL; 1815 FEL
20 T25S R30E	18 T25S R30E									
TBD	ТВD	TBD	ТВD							
Poker Lake Unit 20-8 BD 210	Poker Lake Unit 18-30 BD 200H	Poker Lake Unit 18-30 BD 201H	Poker Lake Unit 18-30 BD 202H	Poker Lake Unit 18-30 BD 203H	Poker Lake Unit 18-19 BD 204H	Poker Lake Unit 18-19 BD 205H	Poker Lake Unit 18-19 BD 206H	Poker Lake Unit 18-19 BD 207H	Poker Lake Unit 18-19 BD 208H	Poker Lake Unit 18-19 BD 209H

PLU Brushy Draw 18 (PLU 18-30/18-19) and PLU Brushy Draw 20 (PLU 20-17/20-8) IV. Central Delivery Point Name:\_ [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.

proposed to be recompleted from a single went pad of connected to a central delivery point.	ica monia am	gic well pautol coll	nected to a centil	ardenvery pourt.		
Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Poker Lake Unit 20-17						
	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 202						
	TBD	August 2025	ТВD	TBD	TBD	TBD
Poker Lake Unit 20-17						
BD 203	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17						
50 204	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8						
BD 205	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 206						
	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 207						
	TBD	August 2025	TBD	TBD	TBD	TBD

Page 2 of 6

Page 3 of 6

Poker Lake Unit 20-8 BD 208	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 209	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 210	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 200H	TBD	October 2025	ТВБ	TBD	ТВD	TBD
Poker Lake Unit 18-30 BD 201H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 202H	ΩŒL	October 2025	ПВБ	ΠBD	ΠBD	TBD
Poker Lake Unit 18-30 BD 203H	ΩBL	October 2025	ΩBT	TBD	ПВП	TBD
Poker Lake Unit 18-19 BD 204H	ΩBL	October 2025	ПВБ	TBD	ПВП	TBD
Poker Lake Unit 18-19 BD 205H	ΩBL	October 2025	ΩBT	ΠBD	ΠBD	TBD
Poker Lake Unit 18-19 BD 206H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 207H	ΩŒL	October 2025	ПВБ	ТВД	TBD	TBD
Poker Lake Unit 18-19 BD 208H	ΠBI	October 2025	ΠBD	TBD	ПВП	TBD
Poker Lake Unit 18-19 BD 209H	TBD	October 2025	TBD	TBD	TBD	TBD

VI. Separation Equipment: 

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

VII. Operational Practices: 

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

VIII. Best Management Practices: 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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

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

capture requirement for the applicable reporting area.

# IX. Anticipated Natural Gas Production:

Page 4 of 6

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

# X. Natural Gas Gathering System (NGGS):

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

XI. Map.  $\square$  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  $\square$  will  $\square$  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.

☐ 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. XIV. Confidentiality:

# Section 3 - Certifications

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

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

D of 19.15.27.9 NMAC; or Well Shut-In.

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

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:

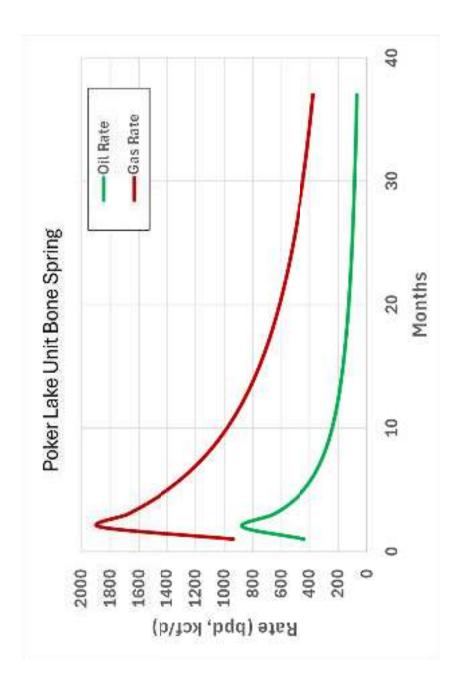
- power generation on lease;
- power generation for grid;
  - compression on lease;
- reinjection for underground storage;
- reinjection for temporary storage;
- reinjection for enhanced oil recovery;
- other alternative beneficial uses approved by the division. fuel cell production; and (2000E0E0

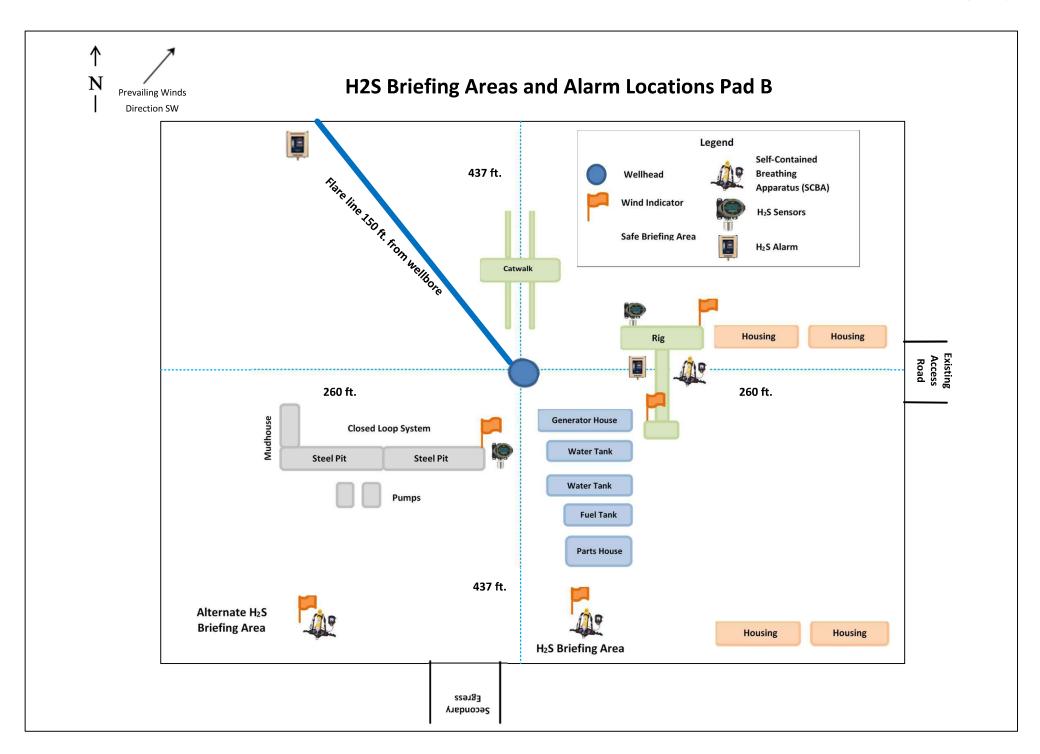
## Section

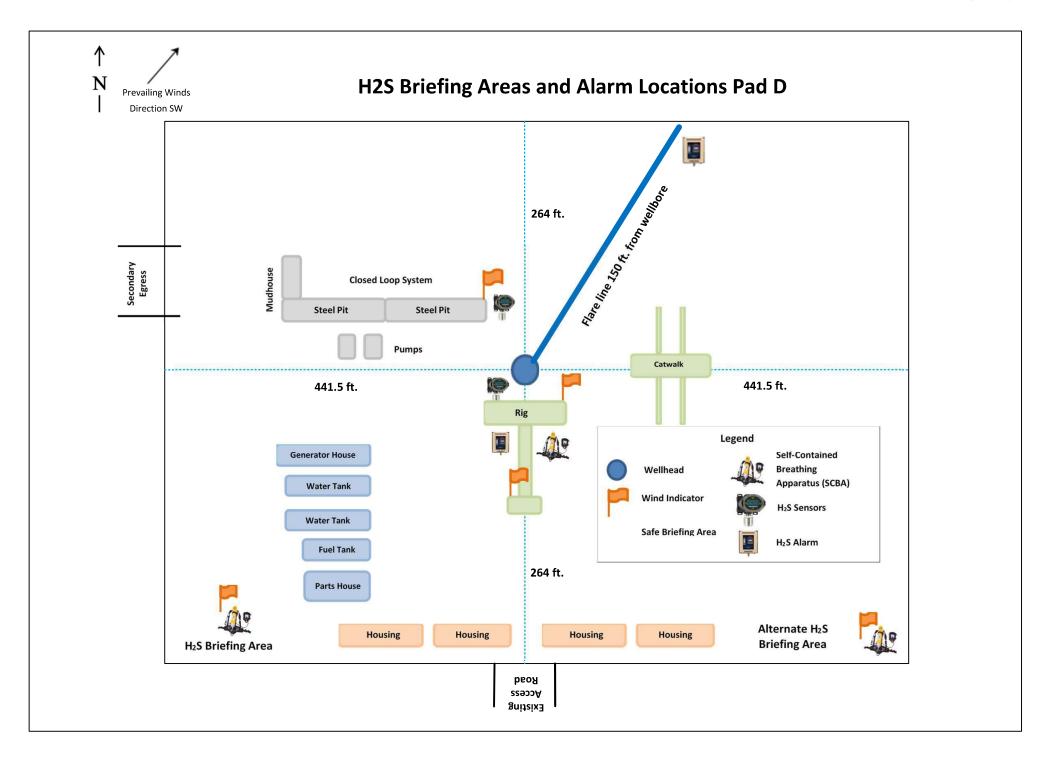
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production 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
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas for OCD's approvala 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 capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and Operator will not have a dequate natural gas ta kea way capacity at the time a well will be spud.

Page **6** of **6** 

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: ALDM
Printed Name: Adrian Baker
Title: Environmental and Regulatory Advisor
E-mail Address: nig100@gmail.com
Date: 9/9/2024
Phone: 432-2363808
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:







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

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

# **Supporting Documentation**

regulating BLM onshore drilling operations for over 30 years. During this time there have been significant was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact changes in drilling technology. BLM continues to use the variance request process to allow for the use of stack components apart. These technologies have been used extensively offshore, and other regulators, incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that 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 "A pressure test of the pressure containing component shall be performed following the disconnection 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) or repair, limited to the affected component." See Table C.4 below for reference.

	1	Pressure Test-	Pressure Test—High Pressuread
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer <sup>6</sup>	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers <sup>bd</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	dII
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	ΠP
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	MASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
<sup>3</sup> Pressure test evaluation periods shall be a minimum of five minutes. No visible leaks. The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended *Amnular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.	hall be a minimum of five minutes.  during the evaluation period. The pissure tested on the largest and sma	ressure 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. The pressure shall remain stable during the evaluation period. The pressure shall remain stable pressure tested on the largest and smallest OD drill pipe to be used in well program.	e intended test pressure. program.
<ul> <li>For pad drilling operations, moving from one wellnead 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.</li> </ul>	or pad drilling operations, moving from one wellhead to another within the 21 day pressure-controlling connections when the integrity of a pressure seal is broken.	the 21 days, pressure testing is recilis broken.	quired for pressure-containing
6 For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure whered during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and vertex.	e ram BOPs shall be pressure test and operations, the ram BOPs sha	or 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 fest. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and	the closing and locking press

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 Oand that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and 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 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

#### <u>Procedures</u>

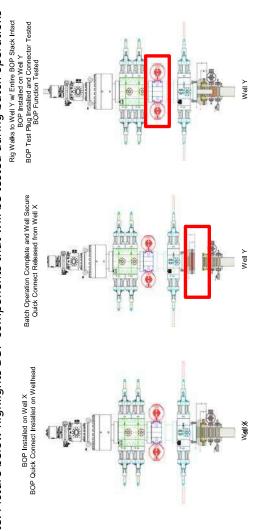
- The summary below will be referenced in the APD or Sundry Notice and receive approval prior XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. to implementing this variance ۲i
- XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window. 5.
- A full BOP test will be conducted on the first well on the pad.
- 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.
- Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
- Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.

A Full BOP test will be required if the intermediate hole section being drilled has a MASP

- over 5M.
  - A full BOP test will be required prior to drilling any production hole.
- 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. 'n
- Between the HCV valve and choke line connection
- ). Between the BOP quick connect and the wellhead
- The BOP is then lifted and removed from the wellhead by a hydraulic system. 4.
- After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed. 5.
- The connections mentioned in 3a and 3b will then be reconnected. 6.
  - 7. Install test plug into the wellhead using test joint or drill pipe.
- A shell test is performed against the upper pipe rams testing the two breaks. œ.
- 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). 6
  - Function test will be performed on the following components: lower pipe rams, blind rams, and annular. 10.

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

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

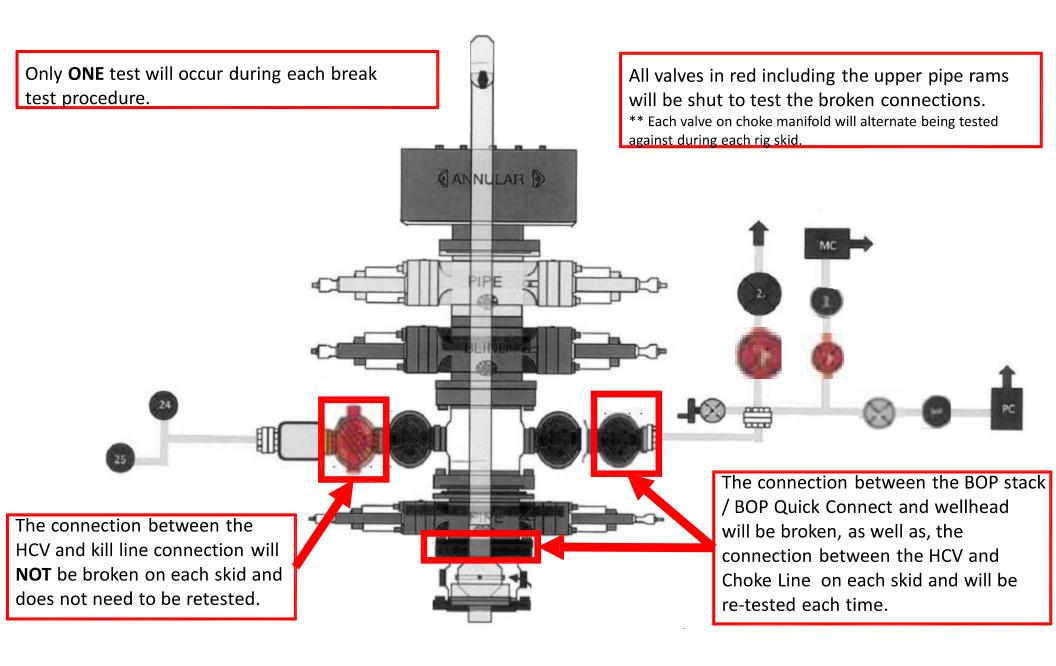


#### Summary

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

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation. Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

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





# BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA

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

NEW CHOKE HOSE INSTAUED 02-10-2024

# CERTIFICATE OF CONFORMANCE

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

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

QUALITY ASSURANCE TITLE: SIGNATURE:

DATE: 1/25/2024

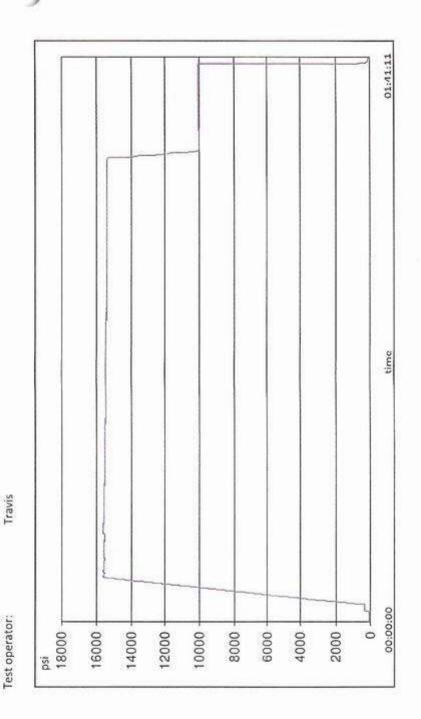
#### H3-15/16

1/25/2024 11:48:06 AM

	is Inc.
	Nabors Industries
CUSTOMER	Company:
	CUSTOMER

TEST OBJECT	Nabors Industries Inc. Serial number:	Lot number:	1531 Description:		Hose ID:	Part number:		Fitting 1:	psi Part number;	
	Nabors Ind		74621/66-1531	529480	FG1213			GTS-04-053	15000.00	-
CUSTOMER	Company:		Production description:	Sales order #:	Customer reference:		TEST INFORMATION	Test procedure:	Test pressure:	The same of the sa

Company:	Nabors Industries Inc.	stries Inc.	Serial number:	H3-012524-1	7
			Lot number:		
Production description:	74621/66-1531	531	Description:	74621/66-1531	1531
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 × 4-1/16 10K	6 10K
Test pressure:	15000.00	psi	Part number;		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 × 4-1/16 10K	6 10K
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:	ti.				



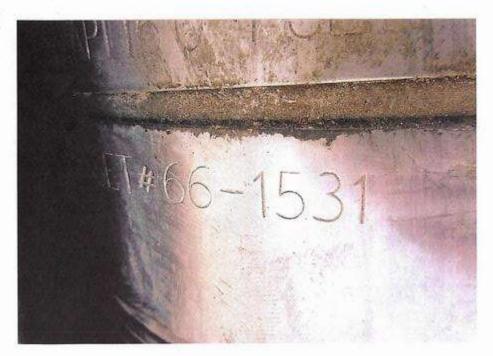
#### 1/25/2024 11:48:06 AM H3-15/16

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

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# XTO Permian Operating, LLC Offline Cementing Variance Request

a XTO requests the option to cement the surface and intermediate casing strings offline as 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

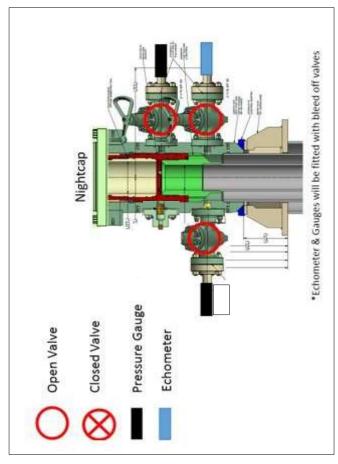
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- Land casing with mandrel
- Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static 5 6 4 4 4 4 4 H
  - 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.
- After confirmation of both annular barriers and internal barriers, nipple down BOP δ.
- If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified. and install cap flange.



Annular packoff with both external and internal seals

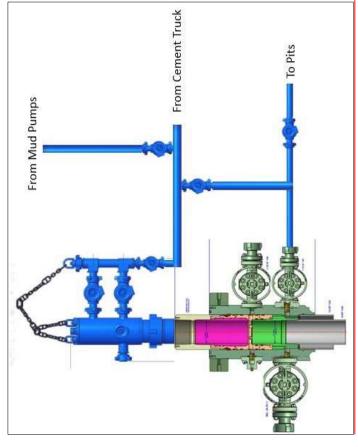
# XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- Skid rig to next well on pad.
- 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, party pump truck will kill well prior to cementing or nippling up for further remediation. casing outlet valves will provide access to both the casing ID and annulus. Rig or third 6.
  - Well Control Plan
- control of the wellbore prior to cementing, if wellbore conditions do not The Drillers Method will be the primary well control method to regain permit the drillers method other methods of well control may be used
- A high pressure return line will be rigged up to lower casing valve and run Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID :≓ :=
  - Once influx is circulated out of the hole, kill weight mud will be to choke manifold to control annular pressure <u>.</u>
- Well will be confirmed static circulated
- Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence ۲.
  - Install offline cement tool ∞. *e*.
- 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
  - Max anticipated time before circulating with cement truck is 6 hrs
    - 11. Perform cement job taking returns from the annulus wellhead valve
      - 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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

# Description of Operations:

- Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
- following all of the applicable rules and regulations (OnShore Order 2, all COAs and After drilling the surface hole section, the spudder rig will run casing and cement NMOCD regulations).
- Solids control will be handled entirely on a closed loop basis. No earth pits will be The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Þ.
- The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.  $\ddot{\circ}$
- 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. က
- A means for intervention will be maintained while the drilling rig is not over the well.
- Spudder rig operations are expected to take 2-3 days per well on the pad. 4
- The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations. 5
- Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well. 6
- 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.
- The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations Þ.

XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD

regulations and to oversee operations.

ζ.

Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area. œί

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

APD ID: 10400100953

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Type: OIL WELL

SUPO Data Report

Highlighted data reflects the most recent changes Show Final Text

Well Number: 204H

Submission Date: 09/24/2024

Well Work Type: Drill

#### - Existing Roads Section 1

Will existing roads be used? YES

**Existing Road Map:** 

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_Existing\_Road\_Map\_20240911112844.pdf

**Existing Road Purpose: ACCESS** 

Row(s) Exist? NO

ROW ID(s)

≘

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

20 8 BD 1Mile Radius 20240911065741.pdf Poker\_Lake\_Unit\_20\_17

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

# Submit or defer a Proposed Production Facilities plan? SUBMIT

disturbance is needed. D. Disposal Facilities. Produced water will be hauled from location to a commercial or private disposal facility as needed. E. Flare. - Check in facility plot attached. F. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of BD wells. Once drilled and completed, the wells will flow to the Poker Lake Unit 20-17/20-8 BD battery. B. Flowlines. No further flowlines disturbance is requested. C. Gas Pipeline. No Gas Sales line is required for this well. No additional surface cut or fill areas. H. Electrical. No additional electrical is required for this well. No additional surface disturbance is needed. I. Production Facilities description: A. Production Facilities. No New facility is required for the Poker Lake Unit 20-17/20-8 facilities designed. The containment berms will be constructed of compacted caliche, be sufficiently impervious, away from the built environment. G. Containment Berms. Containment berms will be constructed completely around any production Facility Description- Kindly see the facility plot attached.

## Production Facilities map:

XTO\_DB\_BDWST\_00CTB\_PLOT\_000\_0\_Model\_6\_18\_18\_20240911053241.pdf

# Section 5 - Location and Types of Water Supply

## Water Source Table

Water source type: OTHER

Describe type: Fresh Water

Water source use type:

SURFACE CASING

DUST CONTROL

STIMULATION

Source latitude:

Source longitude:

Source datum:

ity:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000

Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Page 2 of 12

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

Water source type: OTHER

**Describe type:** Raw Produced Water

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source longitude: Source latitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

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

Source volume (gal): 23100000

Water source type: RECYCLED

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source longitude: Source latitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

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

Water source and transportation

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_Vicinity\_Map\_20240911113010.pdf

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

Page 3 of 12

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

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

New water well? N

## New Water Well Info

Well datum: Well Longitude: Well latitude:

Well target aquifer:

Est thickness of aquifer: Est. depth to top of aquifer(ft):

Aquifer comments:

Aquifer documentation:

Well casing type: Well depth (ft): Well casing inside diameter (in.): Well casing outside diameter (in.):

Used casing source: New water well casing?

**Drill material:** 

**Drilling method:** 

Grout material:

Casing top depth (ft.): Grout depth: Casing length (ft.):

Completion Method: Well Production type:

Water well additional information:

State appropriation permit:

Additional information attachment:

#### - Construction Materials Section 6

Using any construction materials: NO

Construction Materials description:

Construction Materials source location

# Section 7 - Methods for Handling

Waste type: SEWAGE

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 Waste content description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of be removed when all operations are complete.

gallons Amount of waste: 250

Waste disposal frequency : Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

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:

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

Disposal type description:

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

Waste type: GARBAGE

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. 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

spunod Amount of waste: 250

Waste disposal frequency : Weekly

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 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.

Safe containmant attachment:

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

Disposal type description

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

Waste type: DRILLING

Waste content description: FLUID

Waste disposal frequency

Amount of waste: 500

barrels

: One Time Only

Safe containment description: Steel Mud Boxes

Safe containmant attachment

Disposal location ownership: COMMERCIAL Waste disposal type: HAUL TO 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

Waste disposal frequency: One Time Only

Page 6 of 12

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

**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:

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

ACILITY

Disposal type description:

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

#### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

#### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

Cuttings area liner

Cuttings area liner specifications and installation description

## Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

#### Comments:

#### - Well Site တ Section

# Well Site Layout Diagram:

Poker Lake Unit 20 17 BD 204H RL 20240917115903.pdf

Poker\_Lake\_Unit\_20\_8\_BD\_204H\_Well\_Site\_Plat\_Updated\_20250327163807.pdf

Comments: Multi-Well Pad.

#### Plans for Surface 9 Section

Multiple Well Pad Name: POKER LAKE UNIT 20-8 BD Type of disturbance: No New Surface Disturbance

Multiple Well Pad Number:

#### Recontouring

3 20 2025 20250327163908.pdf POKER\_LAKE\_UNIT\_20\_17\_20\_8\_BD\_PAD\_B\_INTERIM\_RECLAMATION\_FINAL XTO

XTO\_POKER\_LAKE\_UNIT\_20\_17\_20\_8\_BD\_PAD\_D\_INTERIM\_RECLAMATION\_FINAL\_3\_20\_2025\_20250327163909.pdf

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

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

Road long term disturbance (acres): 0 Well pad interim reclamation (acres): 0 Well pad long term disturbance (acres): 0 Road interim reclamation (acres): 0 Road proposed disturbance (acres): Well pad proposed disturbance

Powerline long term disturbance Pipeline long term disturbance (acres): 0 Powerline interim reclamation (acres): Pipeline interim reclamation (acres): 0 0 Powerline proposed disturbance Pipeline proposed disturbance acres):

Other long term disturbance (acres): 0 (acres): 0 Other interim reclamation (acres): 0 Other proposed disturbance (acres): acres):

Total interim reclamation: 0 0 Total proposed disturbance:

Total long term disturbance: 0

Disturbance Comments:

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

landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors Topsoil redistribution: The original stockpiled topsoil will be spread over the areas being reclaimed and the original 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-

Page 7 of 12

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

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.

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. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus

# Existing Vegetation at the well pad

Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, <style isBold=&quot;true&quot;&gt;Existing Vegetation Community at the road:&lt;/style&gt; Soils are classified as Simona 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. offering 90 percent visibility.

# Existing Vegetation Community at the road

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. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. <style isBold=&quot;true&quot;&gt;Existing Vegetation Community at the pipeline:&lt;/style&gt; Soils are classified as offering 90 percent visibility.

# Existing Vegetation Community at the pipeline

alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the <style isBold=&quot;true&quot;&gt;Existing Vegetation Community at other disturbances:&lt;/style&gt; 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 West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Page 9 of 12

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

Seed

**Seed Table** 

Seed Summary

Total pounds/Acre:

Seed Type Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Robert

**Phone:** (406)478-3617

Last Name: Bartels Email: robert.e.bartels@exxonmobil.com

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 Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation rough enough to trap seed and snow, control erosion, and increase water infiltration.

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

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

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

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

Weed treatment plan

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

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

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:

State Local Office: NPS Local Office:

Military Local Office:

**USFWS Local Office:** 

Other Local Office: USFS Region: USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA** Local Office:

**BOR Local Office:** 

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

**USFWS Local Office:** Military Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

**USFS Ranger District:** 

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

Describe:

Disturbance type: TRANSMISSION LINE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

**BOR Local Office:** 

COE Local Office:

DOD Local Office: NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office: USFS Region: USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: OTHER

Describe: FLOWLINE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

**BOR Local Office:** 

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

**USFS Ranger District:** 

Page 11 c

Page 12 of 12

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

## Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

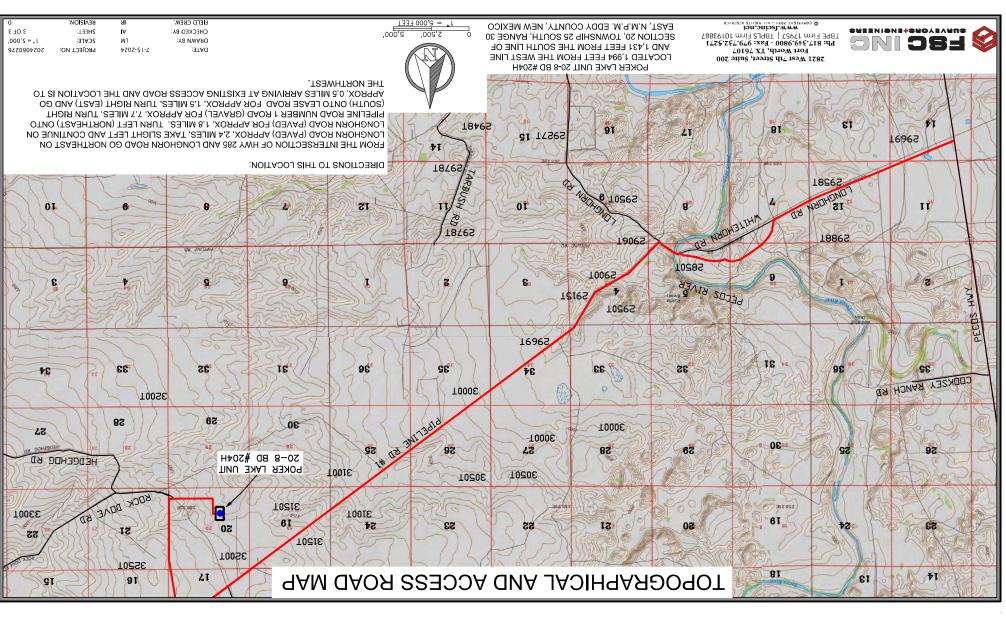
SUPO Additional Information: SUPO written for all wells in section/project area.

Use a previously conducted onsite?  $\forall$ 

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

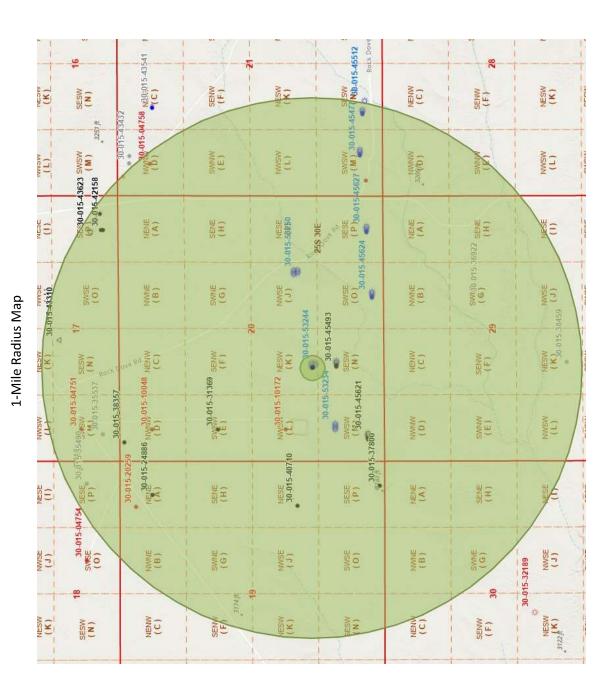
#### Other SUPO

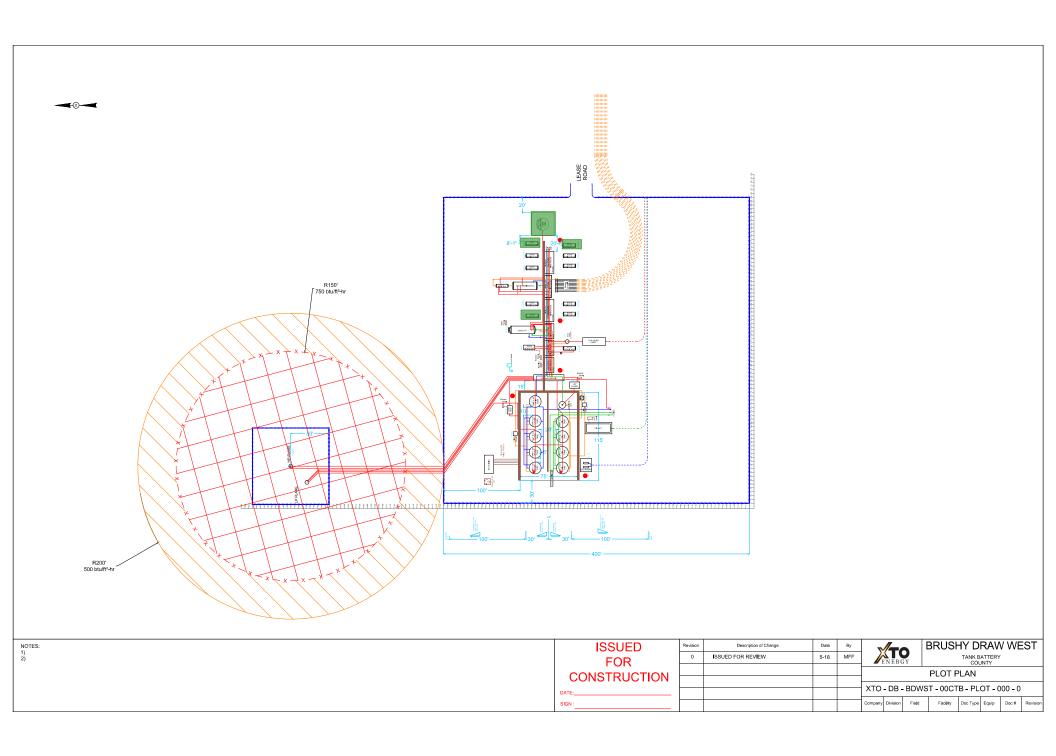
Poker\_Lake\_Unit\_20\_17\_\_\_20\_8\_BD\_SUPO\_20250318115243.pdf

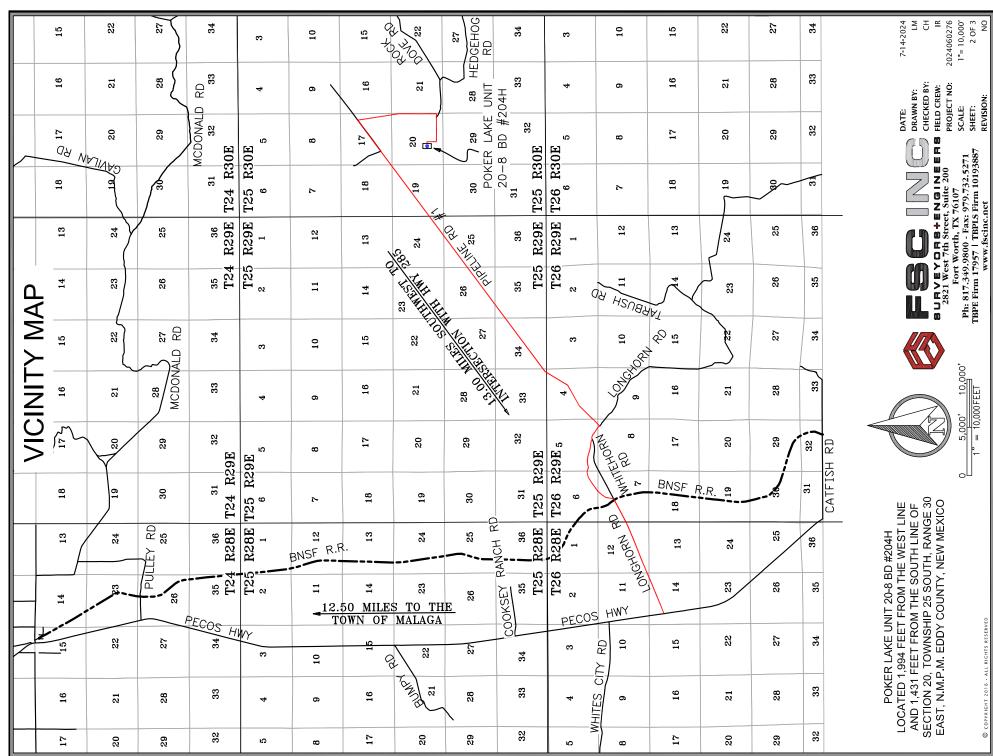


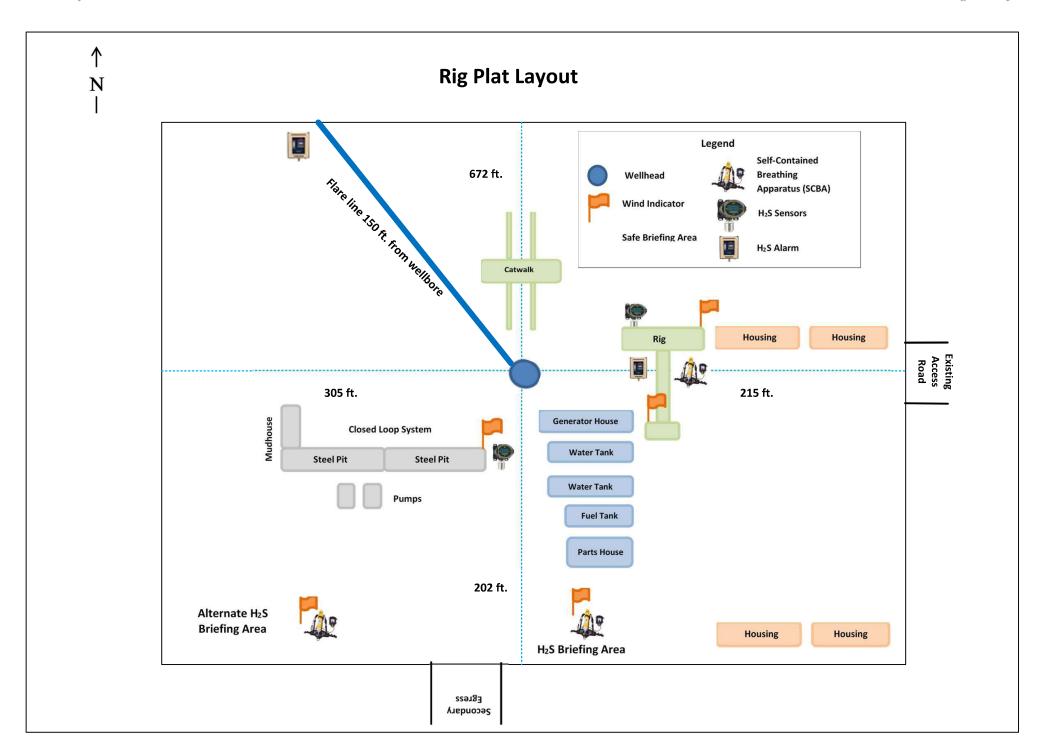
Released to Imaging: 9/19/2025 2:16:21 PM

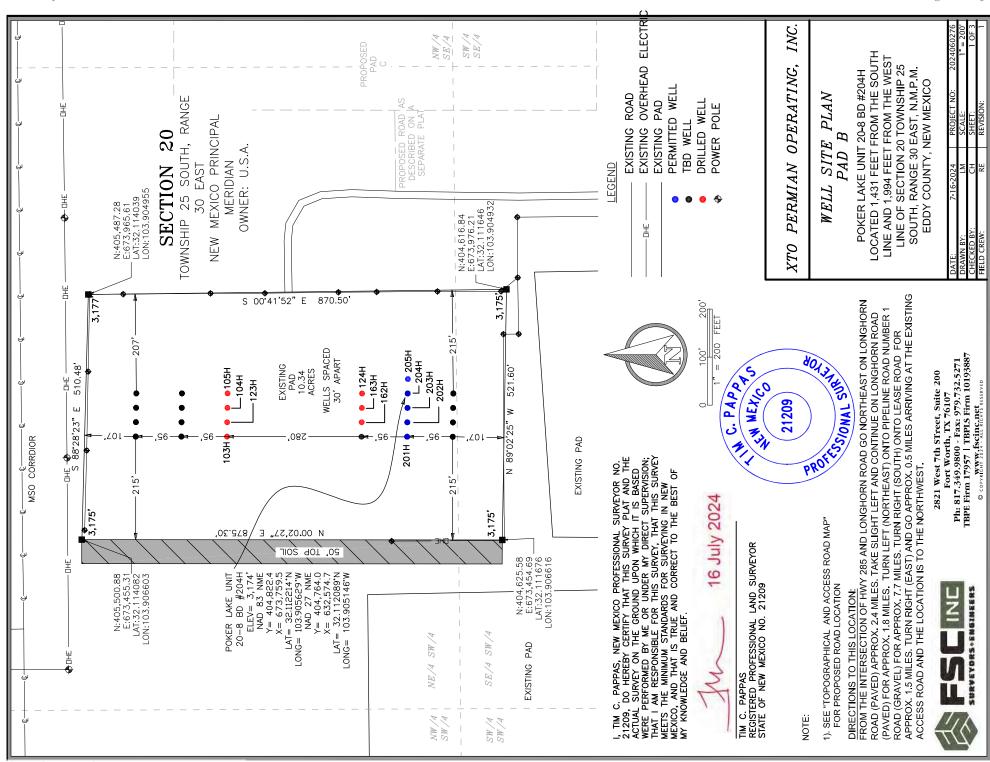
Poker Lake Unit 20-17 & 20-8 BD

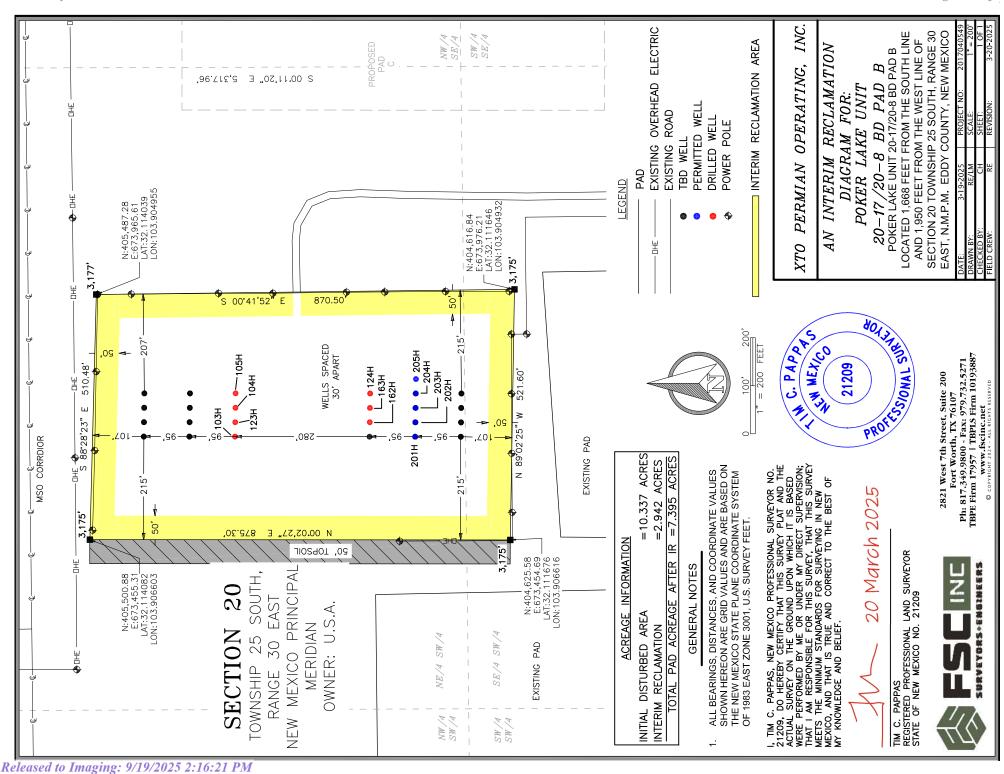


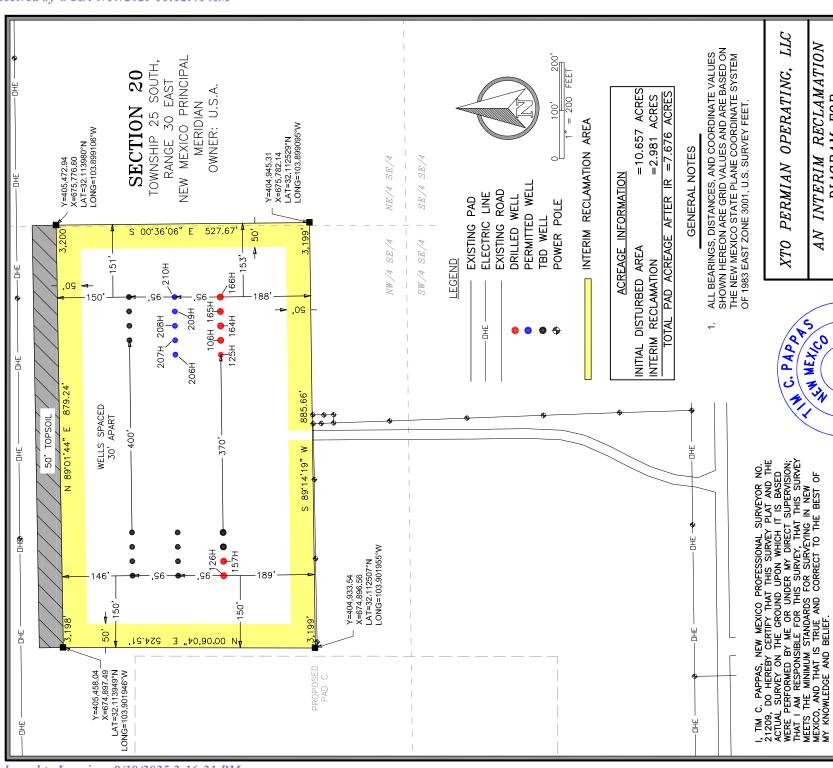












### TTCPERMIAN OPERATING, XTO

### INTERIM RECLAMATION DIAGRAM FOR: POKER LAKE UNIT AN

ACM MEXICO

21209

20 March 202

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

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

PROTESTIONAL S

2821 West 7th Street, Suite 200 Fort Worth, TX 76107 Ph: 817.349.9800 - Fax: 979.732.5271 TBPE Firm 17957 | TBPLS Firm 10193887

## Well Site Locations

The results of the Poker Lake Unit 20-17/20-8 BD Development Program will develop economic quantities of oil and gas in the Poker Lake Unit 20-17/20-8 BD with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones. If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities

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

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

### Surface Use Plan

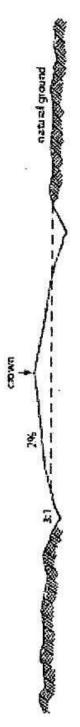
### **Existing Roads**

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

# 2. New or Upgraded Access Roads

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

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



# Level Ground Section

- Surface Material. Surface material will be native caliche. The average grade of all roads will be approximately 3%. ய்
- Fence Cuts: No. G.
- Fences: No.

ェ

- Cattle Guards: No. <u>-:</u>
- Turnouts: No.  $\vec{-}$
- Culverts: No.  $\dot{\mathbf{z}}$
- Cuts and Fills: look at attached plats.
- construction activity. The topsoil that was stripped will be spread along the edge of well pad as Topsoil. Approximately 6 inches of topsoil (root zone) is stripped from the access road prior to any depicted in plat. The topsoil will be seeded with the proper seed mix designated by the BLM.
- and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts Maintenance. The access road will be constructed and maintained as necessary to prevent soil erosion installed as necessary to provide for proper drainage along with access road route. ż
- 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. o.

### **Location of Existing Wells** 'n

See attached 1-mile radius well map.

## **Location of Existing Production Facilities** 4

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

- **Disposal Facilities**. Produced water will be hauled from location to a commercial or private disposal facility as needed o.
- E. Flare. Check in facility plot attached.
- Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual mpacts of the built environment. ц.
- Containment Berms. Containment berms will be constructed completely around any production facilities designed. The containment berms will be constructed of compacted caliche, be sufficiently impervious, away from cut or fill areas. G.
- Electrical. No additional electrical is required for this well. No additional surface disturbance is needed. π̈́
- Facility Description- Kindly see the facility plot attached.

# 5. Location and Types of Water Supply

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

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

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

# 6. Construction Activities – No new construction

Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur because of these activities. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency.

# Well Pad. No New construction

# 7. Methods for Handling Waste

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

- a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in s until Produced Fluids. Water produced from the well will be held temporarily in steel tanks and then taken to
- 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
- materials on and around the well location not contained in the trash cage will be cleaned up and removed Garbage and Other Waste Materials. All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste 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.

- Response Compensation Liability Act (CERCLA) removed from the location and not reused at All drilling wastes identified as hazardous substances by the Comprehensive Environmental another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
- XTO PERMIAN OPERATING LLC and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, regarding any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et 'hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically seq., and its regulation. The definition of hazardous substances under CERLCA includes any listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas. :≓
  - No hazardous substances or wastes will be stored on the location after completion of the well. i≡
- Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved .<u>≥</u>
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. >

## 8. Ancillary Facilities

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

## 9. Well Site Layout

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

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

Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17. **V-Door Orientation**: These pads were staked with multiple v-door orientations. The following list is from West to East in accordance with the staked section and as agreed upon with Zane Kirsch, BLM Natural Resource Specialist, present at on-site inspection.

Pad A has a V-Door Orientation: East

All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas

# 10. Plans for Surface Reclamation:

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

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

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

## Reclamation Standards:

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

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

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

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, head cutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed. The site will be free of State or County listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native noxious weeds will be controlled.

### Seeding:

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

## 11. Surface Ownership

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

## 12. Other Information

### Surveying

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

## Soils and Vegetation

Environmental Setting. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route. Water. There is no permanent or live water in the immediate or within the project area.

## 13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

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

# Operator's Representatives:

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

### Surface:

**Robert Bartels** 

Project Execution Planner

XTO Energy, Incorporated

6401 Holiday Hill Road Bldg 5

Midland, Texas 79701

robert.e.bartels@exxonmobil.com

Phone: (406) 478-3671

AFMSS

PWD Data Report

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

APD ID: 10400100953

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Type: OIL WELL

Submission Date: 09/24/2024

Well Number: 204H

Well Work Type: Drill

- General \_ Section Would you like to address long-term produced water disposal? NO

## Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

Lined pit Monitor description:

**Lined pit Monitor** 

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

s the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

## Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

**Unlined** pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

**Unlined pit Monitor** 

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

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

TDS lab results:

Geologic and hydrologic

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

State

Unlined Produced Water Pit Estimated

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well API number:

Injection well name:

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 disturbance (acres):

Other PWD Surface Owner Description:

PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Number: 204H

### Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description: Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

APD ID: 10400100953

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 20-8 BD

Well Type: OIL WELL

Well Work Type: Drill Well Number: 204H

Highlighted data reflects the most Show Final Text recent changes

Submission Date: 09/24/2024

Bond Info Data 05/19/2025

Bond

Federal/Indian APD: FED

**BLM Bond number:** COB000050

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Well Name: POKER LAKE UNIT 20-8



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

Well Location: T25S / R30E / SEC 20 / County or Parish/State: EDDY /

NM

Well Number: 204H Type of Well: OIL WELL Allottee or Tribe Name:

NESW / 32.112214 / -103.905629

Lease Number: NMLC064894 Unit or CA Name: POKER LAKE UNIT Unit or CA Number:

NMNM71016X

US Well Number: Operator: XTO PERMIAN OPERATING

LLC

### **Notice of Intent**

Sundry ID: 2868201

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/12/2025 Time Sundry Submitted: 03:45

Date proposed operation will begin: 08/12/2025

**Procedure Description:** XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL and proposed total depth FROM: TO: KOP: 1,431' FSL & 1,994' FWL OF SECTION 20-T25S-R30E 967' FSL & 2,483' FEL OF SECTION 20-T25S-R30E FTP: 100' FSL & 1,895' FWL OF SECTION 20-T25S-R30E 967' FSL & 2,483' FEL OF SECTION 20-T25S-R30E LTP: 2,559' FSL & 1,895' FWL OF SECTION 8-T25S-R30E 2,561' FSL & 1,850' FEL OF SECTION 8-T25S-R30E BHL: 2,649' FSL & 1,895' FWL OF SECTION 8-T25S-R30E 2,651' FSL & 1,850' FEL OF SECTION 8-T25S-R30E The proposed total depth is changing FROM: 23473' MD; 9452' TVD TO 21711' MD; 9442' TVD. There is no new surface disturbance.

### **NOI Attachments**

### **Procedure Description**

POKER\_LAKE\_UNIT\_20\_8\_BD\_204H\_Sundry\_Docs\_20250827075351.pdf

POKER\_LAKE\_UNIT\_20\_8\_BD\_204H\_Sundry\_Docs\_20250812153758.pdf

Page 1 of 2

well Name: POKER LAKE UNIT 20-8

BD

-8 **Well Location:** T25S / R30E / SEC 20 / NESW / 32.112214 / -103.905629

County or Parish/State: EDDY of 1

M۸

Well Number: 204H

Type of Well: OIL WELL

**Allottee or Tribe Name:** 

Lease Number: NMLC064894

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

**US Well Number:** 

**Operator: XTO PERMIAN OPERATING** 

LLC

### **Conditions of Approval**

### Additional

PLU 20 8 BD 204H COA 20250910143936.pdf

### **Operator**

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

Operator Electronic Signature: MANOJ VENKATESH Signed on: AUG 27, 2025 07:53 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (720) 539-1673

Email address: MANOJ. VENKATESH@EXXONMOBIL. COM

### **Field**

**Representative Name:** 

**Street Address:** 

City:

State:

Zip:

Phone:

Email address:

### **BLM Point of Contact**

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: CWALLS@BLM.GOV

**Disposition:** Approved **Disposition Date:** 09/18/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (October 2024)

### UNITED STATES DEPARTMENT OF THE INTERIOR DEPARTMENT OF TAND MANAGEMENT

FORM APPROVED	
OMB No. 1004-0220	
Expires: October 31, 202	7

BUREAU OF LAND MANAGEMENT	5. Lease Serial No.
SUNDRY NOTICES AND REPORTS ON N Do not use this form for proposals to drill or t abandoned well. Use Form 3160-3 (APD) for su	o re-enter an
SUBMIT IN TRIPLICATE - Other instructions on page	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well  Oil Well  Gas Well  Other	8. Well Name and No.
2. Name of Operator	9. API Well No.
3a. Address 3b. Phone No	(include area code) 10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	11. Country or Parish, State
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent Acidize Dee Alter Casing Hyd	pen Production (Start/Resume) Water Shut-Off raulic Fracturing Reclamation Well Integrity
Subsequent Report ====================================	Construction Recomplete Other and Abandon Temporarily Abandon
Final Abandonment Notice Convert to Injection Plug	Back Water Disposal
is ready for final inspection.)	
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date
THE SPACE FOR FED	ERAL OR STATE OFICE USE
Approved by	
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject l which would entitle the applicant to conduct operations thereon.	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for a any false, fictitious or fraudulent statements or representations as to any matter with	ny person knowingly and willfully to make to any department or agency of the United States in its jurisdiction.

(Instructions on page 2)

### **GENERAL INSTRUCTIONS**

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

### SPECIFIC INSTRUCTIONS

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

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

### **NOTICES**

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

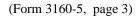
### **Additional Information**

### **Additional Remarks**

There is no new surface disturbance.

### **Location of Well**

0. SHL: NESW / 1431 FSL / 1994 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.112214 / LONG: -103.905629 ( TVD: 0 feet, MD: 0 feet ) PPP: SESW / 100 FSL / 1885 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108552 / LONG: -103.905947 ( TVD: 9452 feet, MD: 10300 feet ) PPP: NENW / 0 FNL / 1897 FWL / TWSP: 25S / RANGE: 30E / SECTION: 17 / LAT: 32.137506 / LONG: -103.905969 ( TVD: 9452 feet, MD: 15500 feet ) BHL: NESW / 2649 FSL / 1895 FWL / TWSP: 25S / RANGE: 30E / SECTION: 8 / LAT: 32.144788 / LONG: -103.905974 ( TVD: 9452 feet, MD: 23473 feet )



### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** XTO

WELL NAME & NO.: Poker Lake Unit 20-8 BD 204H

**LOCATION:** 20-25S-30E-NMP

**COUNTY:** Eddy County, New Mexico

Changes approved through engineering via **Sundry 2868201** on 9/10/2025. Any previous COAs not addressed within the updated COAs still apply.

### **Create COAs**

H <sub>2</sub> S	Cave / Karst	W	aste Prevention Rule
Present	Low	V	Vaste Minimization Plan
Potash		R-111-Q Design	
None			
Wellhead Multibowl	□ Liner □ I	Casing  3-String Well  Fluid Filled	Casing Clearance
<ul><li>✓ Flex Hose</li><li>✓ Break Testing</li></ul>	☐ DV Tool ☑ Offline Cement	Cementing  ✓ Bradenhead  ☐ Open Annulus	<ul><li>✓ Echometer</li><li>☐ Pilot Hole</li></ul>
☐ Capitan Reef	Special Requi  ☐ Water Disposal	rements	<b>▼</b> Unit
E Capitan Reel	water Disposar	L COM	· Oill

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation(s). As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### **B.** CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 930 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface

log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

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

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

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

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

- Operator shall run a CBL from TD of the **Surface** casing to tieback requirements listed above after the second stage BH to verify TOC.
- Operator shall run Echo-meter to verify Cement Slurry/Fluid top in the annulus. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.
  - Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.
  - No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface.
  - Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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

### C. PRESSURE CONTROL

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

- b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
- c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
- e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172. Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

### D. SPECIAL REQUIREMENT(S)

### **Unit Wells:**

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

### **Commercial Well Determination:**

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

### **Offline Cementing**

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

### **Casing Clearance**

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

### **GENERAL REQUIREMENTS**

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

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

### **Contact Eddy County Petroleum Engineering Inspection Staff:**

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

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

### A. CASING

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

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

### **B. PRESSURE CONTROL**

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

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

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

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

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

### C. DRILLING MUD

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

### D. WASTE MATERIAL AND FLUIDS

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

Approved by Zota Stevens on 9/10/2025 575-234-5998 / zstevens@blm.gov

C-102					State of N	New Mexico				Revised July 9, 2024					
			Ene	rgy, N			ral Resources Department			<u> </u>					
Submit Electron Via OCD Permit	•					ATION DIVISI	-		Submitt	-	Initial Submittal				
, in oob 10mm									Type:		Amended Report				
											As Drilled				
APD ID - 1 04001 00953 WELL LOCATION INFORMA						INFORMATION									
API Number			Pool Code		Pool Nan		ONE OD								
30-015 Property Cod	le		13354 Property Name			ORRAL CANYON; BONE SPRING, SOUTH  Well Number					Number				
ORGID No.			On and a Name	POKE	ER LAKE UNIT 20-8 I	3D 204H									
373075			Operator Name		PERMIAN OPERATII	-31				3,1	nd Level Elevation 74'				
Surface Owner: State Fee Tribal K Federal Mineral Owner: State Fee Tribal K Federal						1									
I -			1-	T -		Location	1	. 1-			T-				
l I	20	Township 25 S	P Range 30 E	Lot	Ft. from N/S 1,431' FSL	Ft. from E/W 1,994' FWL	22.11	I	ngitude ·103.90	5629	County EDDY				
	- 1		- de		Bottom He	ole Location	3		*						
UL Sec	ction	Township 25 S	.   -	Lot	Ft. from N/S 2,651' FSL	Ft. from E/W 1,850' FEL	Latitud		•		County				
	9		00		2,031 1 3L	1,030 1 LL	02.14	1011	100.00						
Dedicated Ac	cres		efining Well	Definin	g Well API	Overlapping Spacing U	Unit (Y/N)	Consolidat	ion Code	•					
Order Numbe	ers. N	DE /A	FINING			Well setbacks are under Common Ownership: ⊠ Yes □ No									
UL Sec	ction	Township	p Range	Lot	Kick Off Ft. from N/S	Point (KOP)  Ft. from E/W	Latitud	la I.o	ngitude		County				
	20	25 S	30 E	Lot	967' FSL	2,483' FEL	32.11		103.90	2823	EDDY				
	-		-1/-		T	Point (FTP)		*			7.				
_	ction 20	Township 25 S	,   ,	Lot	Ft. from N/S 967' FSL	Ft. from E/W 2,483' FEL	Latitud 32.11		ngitude ·103.902	2823	County EDDY				
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l I	ction B	Township 25 S	P Range	Lot	Ft. from N/S 2,561' FSL	Ft. from E/W 1,850' FEL	Latitud 32.14		ngitude ·103.900	0795	County EDDY				
			11.11					-			l				
Unitized Are		of Uniford 1054224		Spacin	g Unit Type 🛛 Horizon	ntal  Vertical		Ground Floor E	levation:	3,17	4'				
OPERAT	OR CE	ERTIFIC	CATIONS			SURVEYOR C	ERTIF	ICATIONS							
						I hereby certify that the well location shown on this plat was plotted from field									
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.						veys made to the best MEXICO PR RTIFY THAT E GROUND ME OR UNDI E FOR THIS	by me or under t of my belief. OFESSIONAL SURV THIS SURVEY PLA UPON WHICH IT SER MY DIRECT SU SURVEY, THAT TH	EYOR NO. I AND THE BASED PERVISION; IIS SURVE	ervisio	is plotted from field in, and that the same					
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.			MEXICO, AND THAT IS TI MY KNOWLEDGE AND BE	RUE AND C	AUGUS	H 20	25	21209 21209 25/ONAL SURVEY							
Sama	ntho	z We	is 8/	7/202	25	SITTLE OF THEM MEXICO	21205			10	SIONAL SURY				
Signature			D	ate		Signature and Seal or	f Profession	onal Surveyor							
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Printed Name	e					Certificate Number		Date of Surv	еу						
samant	ha.r.k	oartnik	@exxonm	obil.c	om	TIM C. PAPPAS	21209	08/06/2	2025						
Email Addres	SS														
Note	e: No allo	owable wil	l be assigned to t	his compi	letion until all interests	have been consolidated	or a non-	standard unit h	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.						

FSCINE

DATE: DRAWN BY: CHECKED BY: FIELD CREW:

8-6-2025 LM

PROJECT NO: SCALE: SHEET:

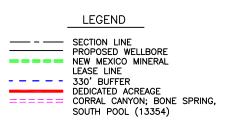
2024060276 1 OF 2

WL IR REVISION:

### ACREAGE DEDICATION PLATS

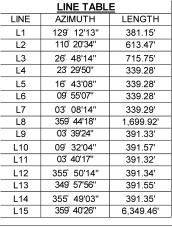
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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.



SEC. 8 T25S\_R30E

腻 牅



	<u>c</u>	OORDIN	ATE TAE	<u>BLE</u>	
SH	IL (NAD 83 NN			P/FTP (NAD 83 N	ME)
Y =	404,822.4	N	Y =	404,368.2	N
X =	673,759.5	E	X =	674,630.1	E
LAT. =	32.112214	°N	LAT. =	32.110956	°N
LONG. =	103.905629	°W	LONG. =	103.902823	°W
	P (NAD 83 NN			HL (NAD 83 NMI	
Y =	416,608.8	N	Y =	416,698.8	N
X = LAT. =	675,208.9	°N	X = LAT. =	675,208.5	°N
LONG. =	32.144597 103.900795	°W	LONG. =	32.144844 103.900795	°W
	1 (NAD 83 NM			P2 (NAD 83 NME	)
Y =	404,581.5	N	Y =	405,007.1	N
X =	674,054.9	E	X =	674,952.8	E
LAT. =	32.111548	°N	LAT. =	32.112708	°N
LONG. =	103.904678	°W	LONG. =	103.901773	°W
P	3 (NAD 83 NM	E)		P4 (NAD 83 NME	)
Y =	405,318.2	N	Y =	405,643.2	N
X =	675,088.1	E	X =	675,185.7	E
LAT. =	32.113562	°N	LAT. =	32.114454	°N
LONG. =			LONG. =	103.901012	°W
Y =	5 (NAD 83 NM 405,977.4	=) N	Y =	P6 (NAD 83 NME	N
X =	675,244.1	E	X =	406,316.1 675,262.7	E
LAT. =	32.115372	°N	LAT. =	32.116303	°N
LONG. =	103.900819	°W	LONG. =	103.900755	°W
	7 (NAD 83 NM			P8 (NAD 83 NME	
Y =	408,016.1	N	Y =	408,406.6	N
X =	675,254.9	E	X =	675,279.9	E
LAT. =	32.120976	°N	LAT. =	32.122050	°N
LONG. =	103.900758	°W	LONG. =	103.900672	°W
	9 (NAD 83 NM			10 (NAD 83 NME	
Y =	408,792.7	N	Y =	409,183.3	N
X =	675,344.8	E .	X =	675,369.8	E ON I
LAT. = LONG. =	32.123110 103.900458	°W	LAT. = LONG. =	32.124184 103.900372	°W
	11 (NAD 83 NM			12 (NAD 83 NME	
Y =	409,573.6	_, N	Y =	409,959.1	N
X =	675,341.4	E	X =	675,373.2	E
LAT. =	32.125257	°N	LAT. =	32.126317	°N
LONG. =	103.900458	°W	LONG. =	103.900674	°W
	13 (NAD 83 NM				
Y =	410,349.4	N			
X =	675,244.6	E			
LAT. =	32.127391	°W			
LONG. =	103.900761 IL (NAD 27 NN		KO	 P/FTP (NAD 27 N	ME)
Y =	404,764.0	N	Y =	404,309.9	N N
X =	632,574.7	E	X =	633,445.2	E
LAT. =	32.112089	°N	LAT. =	32.110831	°N
LONG. =	103.905146	°W	LONG. =	103.902340	°W
L1	TP (NAD 27 NN	E)	В	HL (NAD 27 NMI	≣)
Y =	416,550.1	N	Y =	416,640.1	N
X =	634,024.4	E	X =	634,024.0	E
LAT. =	32.144472	°N	LAT. =	32.144720	°N
LONG. =	103.900311	°W	LONG. =	103.900311	°W
Y =	1 (NAD 27 NM 404,523.1	=) N	Y =	P2 (NAD 27 NME 404,948.7	N
X =	632,870.0	E	X =	633,767.9	E
LAT. =	32.111423	°N	LAT. =	32.112583	°N
LONG. =	103.904195	°W	LONG. =	103.901290	°W
	3 (NAD 27 NM			P4 (NAD 27 NME	
Y =	405,259.8	N	Y =	405,584.8	N
X =	633,903.2	E	X =	634,000.8	E
LAT. =	32.113437	°N	LAT. =	32.114329	°N
LONG. =		°W	LONG. =	103.900529 P6 (NAD 27 NME	°W
Y =	5 (NAD 27 NM		Y =		
X =	405,919.0 634,059.3	N E	Y = X =	406,257.7 634,077.9	N E
LAT. =	32.115247	°N	LAT. =	32.116178	°N
LONG. =	103.900336	°W	LONG. =	103.900272	°W
	7 (NAD 27 NM			P8 (NAD 27 NME	
Y =	407,957.7	N	Y =	408,348.1	N
X =	634,070.1	E	X =	634,095.1	E
LAT. =	32.120851	°N	LAT. =	32.121925	°N
LONG. =	103.900274	°W	LONG. =	103.900189	°W
	9 (NAD 27 NM			10 (NAD 27 NME	
Y = X =	408,734.2 634,160.0	N E	Y = X =	409,124.8 634,185.1	N E
LAT. =	32.122985	°N	LAT. =	32.124059	°N
			L/11	02.124000	174
LUNG. =		°W	LONG. =	103.899888	°W
LONG. =	103.899974	°W	LONG. =	103.899888 P12 (NAD 27 NME	
		°W		103.899888 P12 (NAD 27 NME 409,900.6	

	000 1020	0,040.40				
CONTROL POINT FOOTAGES						
POINT #	N/S FOOTAGE	E/W FOOTAGE				
CP1	1,187' FSL	2,288' FWL				
CP2	1,602' FSL	2,159' FEL				
CP3	1,911' FSL	2,023' FEL				
CP4	2,235' FSL	1,925' FEL				
CP5	2,569' FSL	1,865' FEL				
CP6	2,412' FNL	1,846' FEL				
CP7	712' FNL	1,850' FEL				
CP8	322' FNL	1,824' FEL				
CP9	64' FSL	1,758' FEL				
CP10	454' FSL	1,730' FEL				
CP11	845' FSL	1,755' FEL				
CP12	1,231' FSL	1,820' FEL				
CP13	1,622' FSL	1,846' FEL				

     	2,65 1,850	BH 1' FS D' FE	L L	10,	100'-	80001	_	  -  -  -  -
		E	B106780001			LTP 2,561' F 1,850' F	SL EL	-   -   -   -     -
- 4 - 1 - 1 - 4	PPP 0' FI 1,836' F	#2 / NL EL	.C 0064894A	L15	1 1 1 1			 
_ +=	SEC. 17 T25S R30E		30' -	L11 L12 L13 L14		CP13 CP12 CP11 CP10 CP9	SEC. 17 T25S R30E	
- + + - + - + - + - + - + - + - + - + -	SHL PPP #1 1,039' FSL 2,674' FWL 3,039' FSL 1,431' FSL 1,994' FWL CP1	NMLC 0064894 B	NMLC 0064894A	61 87 27 97 97 97 97 97 97 97 97 97 97 97 97 97		CP8  CP6  CP5  H  CP4  CP3  CP2  KOP/FTF 967' FSI 2,483' F	L	
	T	SEC 25S	A NM . 29 R30	ILC (	 0064	+G 894 ∣	-	

C	CORNER COORDINATES (NAD83 NME)						
A - Y =	403,398.9	N	A - X =	674,444.4	Е		
B - Y =	406,057.8	N	B - X =	674,435.7	Е		
C - Y =	408,716.9	N	C - X =	674,426.9	Е		
D - Y =	411,375.4	N	D - X =	674,407.3	E		
E-Y=	414,034.7	N	E-X=	674,387.7	Е		
F - Y =	416,694.9	N	F - X =	674,383.2	E		
G - Y =	403,414.8	N	G - X =	675,779.8	E		
H - Y =	406,074.3	N	H - X =	675,772.5	Е		
I-Y=	408,734.6	N	1-X=	675,765.0	Е		
J - Y =	411,394.4	N	J - X =	675,744.5	E		
K - Y =	414,055.5	N	K - X =	675,723.4	E		
L - Y =	416,717.4	N	L - X =	675,720.8	E		
	ORNER COO	RDII	NATES (N	NAD27 NME)			
A - Y =	403,340.6	N	A - X =	633,259.5	Е		
B - Y =	405,999.4	N	B - X =	633,250.9	Е		
C - Y =	408,658.4	N	C - X =	633,242.2	E		
D - Y =	411,316.9	N	D - X =	633,222.7	Е		
E - Y =	413,976.1	N	E-X=	633,203.2	Е		
F - Y =	416,636.2	N	F-X=	633,188.7	Е		
G - Y =	403,356.5	N	G - X =	634,594.9	Е		
H - Y =	406,015.9	N	H - X =	634,587.6	Е		
I - Y =	408,676.0	Ν	I - X =	408,676.1	Е		
J - Y =	411,335.9	N	J - X =	634,559.9	Е		
K - Y =	413,996.9	N	K - X =	634,538.8	Е		
L - Y =	416,658,7	N	L-X=	634.536.3	F		

	FSC INC
--	---------

2205 Walnut Street Columbus, TX 78934
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100 www.fscinc.net
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DATE: 8-6-2025 PROJECT NO: 2024060276 DRAWN BY: SCALE: 1" = 2,000' CHECKED BY: WI SHEET. FIELD CREW: REVISION: IR

P13 (NAD 27 NME) 410,290.9 Y = 410,290.9 X = 634,059.9 LAT. = 32.127266

PPP #1 (NAD 83 NME) = 404,438.3

PPP #2 (NAD 83 NME)

X = 674,441.0 LAT. = 32.111150

PPP #1 (NAD 27 NME) 404,379.9

633,256.1 32.111025

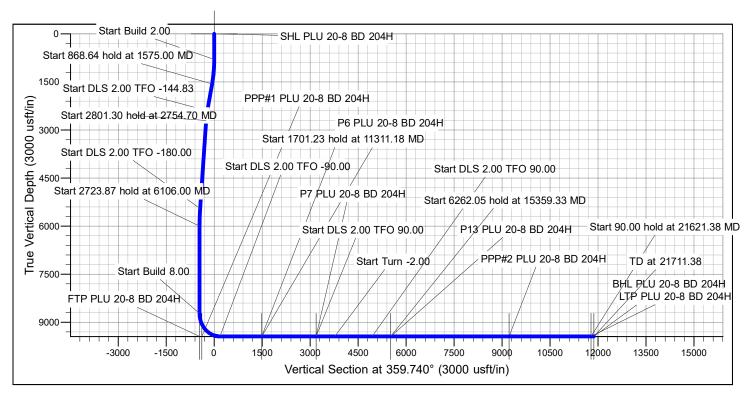
PPP #2 (NAD 27 NME)

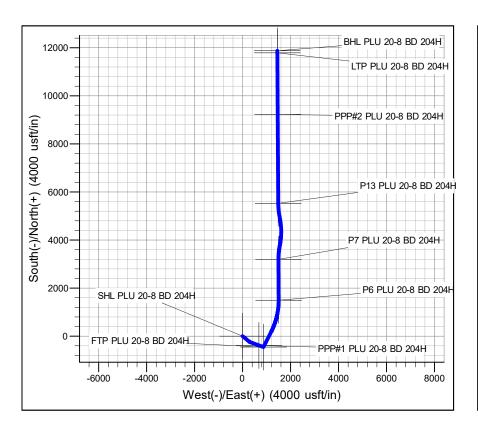
2 OF 2



Site: Poker Lake Unit 20-8/17 BD Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH Design: Plan 0





	FORMAT	TON TOP DETAILS
TVDPath 728.90 955.06 3312.97 3637.00 4560.86 6316.82 7034.43 7563.64 7706.99 8101.10 8385.34 8739.93 8899.97 9050.23 9442.00	MDPath 728.90 955.14 3373.57 3703.66 4644.81 6420.89 7138.50 7667.71 7811.06 8205.17 8489.41 8844.00 9005.80 9166.56 9954.87	Formation Rustler Salado Base of Salt Delaware Cherry Canyon Brushy Canyon Basal Brushy Canyon Bone Spring Lm. Avalon Lower Avalon 1st Bone Spring Sand 2nd Bone Spring Lime 2nd Bone Spring Sand 2rd Bone Spring Sand

### **ROC**

Long Lead - Poker Lake Unit 20-8/17 BD Poker Lake Unit 20-8/17 BD Poker Lake Unit 20-8 BD 204H

OH

Plan: Plan 0

### **Standard Planning Report**

08 August, 2025

### **Planning Report**

EDM 5000.18 Single User Db Database:

Company: Project:

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

Site: Poker Lake Unit 20-8/17 BD Well: Poker Lake Unit 20-8 BD 204H

Wellbore: ОН Plan 0 Design:

**Local Co-ordinate Reference:** 

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Minimum Curvature

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

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

New Mexico East 3001 Map Zone:

System Datum:

Mean Sea Level

Poker Lake Unit 20-8/17 BD Site

Site Position: From:

Northing: Мар Easting:

404,765.20 usft 632,484.70 usft

Latitude: Longitude:

32° 6' 43.534 N 103° 54' 19.571 W

**Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 "

Well Poker Lake Unit 20-8 BD 204H

**Well Position** +N/-S +E/-W

0.00 usft 0.00 usft 0.00 usft

Northing: Easting:

404,764.00 usft 632,574.70 usft Latitude: Longitude:

32° 6' 43.519 N 103° 54' 18.525 W

3,174.00 usft

**Position Uncertainty** Wellhead Elevation: usft Ground Level: 0.23° **Grid Convergence:** 

ОН

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/18/2025	6.22	59.62	46,979.00636533

Plan 0 Design

**Audit Notes:** 

Version:

Wellbore

Vertical Section:

Phase:

Depth From (TVD)

(usft)

0.00

8/8/2025

PLAN +N/-S

(usft)

0.00

Tie On Depth: +E/-W

(usft)

0.00

0.00 Direction

(°) 359.740

**Plan Survey Tool Program** Date

**Depth From** Depth To (usft) (usft)

0.00

Survey (Wellbore) 21,711.38 Plan 0 (OH)

**Tool Name** 

XOM\_R2OWSG MWD+IFR1+

Remarks

OWSG MWD + IFR1 + Multi-St

### **Planning Report**

Database: EDM 5000.18 Single User Db

Company: ROC

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

Site: Poker Lake Unit 20-8/17 BD
Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

Minimum Curvature

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,575.00	15.50	129.410	1,565.58	-66.15	80.50	2.00	2.00	0.00	129.41	
2,443.64	15.50	129.410	2,402.63	-213.52	259.85	0.00	0.00	0.00	0.00	
2,754.70	11.00	110.313	2,705.47	-250.25	319.85	2.00	-1.45	-6.14	-144.83	
5,556.00	11.00	110.313	5,455.30	-435.80	821.13	0.00	0.00	0.00	0.00	
6,106.00	0.00	0.000	6,001.93	-454.07	870.49	2.00	-2.00	-20.06	-180.00	
8,829.87	0.00	0.000	8,725.80	-454.07	870.49	0.00	0.00	0.00	0.00	
9,954.87	90.00	26.863	9,442.00	184.84	1,194.11	8.00	8.00	0.00	26.86	
11,311.18	90.00	359.737	9,442.00	1,492.48	1,503.22	2.00	0.00	-2.00	-90.00	
13,012.42	90.00	359.737	9,442.00	3,193.70	1,495.40	0.00	0.00	0.00	0.00	P7 PLU 20-8 BD 2041
13,600.58	90.00	11.500	9,442.00	3,778.01	1,552.88	2.00	0.00	2.00	90.00	
14,775.58	90.00	348.000	9,442.00	4,944.78	1,547.79	2.00	0.00	-2.00	-90.00	
15,359.33	90.00	359.675	9,442.00	5,524.15	1,485.23	2.00	0.00	2.00	90.00	
21,621.38	90.00	359.675	9,442.00	11,786.10	1,449.70	0.00	0.00	0.00	0.00	LTP PLU 20-8 BD 204
21,711.38	90.00	359.675	9,442.00	11,876.10	1,449.19	0.00	0.00	0.00	0.00	BHL PLU 20-8 BD 20-

### **Planning Report**

Database: EDM 5000.18 Single User Db

Company: ROC

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

Site: Poker Lake Unit 20-8/17 BD
Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

Minimum Curvature

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	2.00	129.410	899.98	-1.11	1.35	-1.11	2.00	2.00	0.00
1,000.00	4.00	129.410	999.84	-4.43	5.39	-4.45	2.00	2.00	0.00
1,100.00	6.00	129.410	1,099.45	-9.96	12.13	-10.02	2.00	2.00	0.00
1,200.00	8.00	129.410	1,198.70	-17.70	21.54	-17.80	2.00	2.00	0.00
1,300.00	10.00	129.410	1,297.47	-27.63	33.63	-27.78	2.00	2.00	0.00
1,400.00	12.00	129.410	1,395.62	-39.74	48.37	-39.96	2.00	2.00	0.00
1,500.00	14.00	129.410	1,493.06	-54.02	65.75	-54.32	2.00	2.00	0.00
1,575.00	15.50	129.410	1,565.58	-66.15	80.50	-66.51	2.00	2.00	0.00
1,600.00	15.50	129.410	1,589.67	-70.39	85.66	-70.78	0.00	0.00	0.00
1,700.00	15.50	129.410	1,686.04	-87.35	106.31	-87.84	0.00	0.00	0.00
1,800.00	15.50	129.410	1,782.40	-104.32	126.96	-104.90	0.00	0.00	0.00
1,900.00	15.50	129.410	1,878.76	-121.29	147.60	-121.96	0.00	0.00	0.00
2,000.00	15.50	129.410	1,975.12	-138.25	168.25	-139.02	0.00	0.00	0.00
2,100.00	15.50	129.410	2,071.49	-155.22	188.90	-156.07	0.00	0.00	0.00
2,200.00	15.50	129.410	2,167.85	-172.19	209.55	-173.13	0.00	0.00	0.00
2,300.00	15.50	129.410	2,264.21	-189.15	230.19	-190.19	0.00	0.00	0.00
2,400.00	15.50	129.410	2,360.58	-206.12	250.84	-207.25	0.00	0.00	0.00
2,443.64	15.50	129.410	2,402.63	-213.52	259.85	-214.70	0.00	0.00	0.00
2,500.00	14.59	126.832	2,457.06	-222.56	271.35	-223.79	2.00	-1.61	-4.57
2,600.00	13.07	121.419	2,554.16	-236.00	291.08	-237.32	2.00	-1.53	-5.41
2,700.00	11.68	114.677	2,651.84	-246.12	309.93	-247.53	2.00	-1.39	-6.74
2,754.70	11.00	110.313	2,705.47	-250.25	319.85	-251.70	2.00	-1.24	-7.98
2,800.00	11.00	110.313	2,749.94	-253.25	327.96	-254.73	0.00	0.00	0.00
2,900.00	11.00	110.313	2,848.10	-259.87	345.86	-261.44	0.00	0.00	0.00
3,000.00	11.00	110.313	2,946.27	-266.49	363.75	-268.14	0.00	0.00	0.00
3,100.00	11.00	110.313	3,044.43	-273.12	381.64	-274.85	0.00	0.00	0.00
3,200.00	11.00	110.313	3,142.59	-279.74	399.54	-281.55	0.00	0.00	0.00
3,200.00	11.00	110.313	3,142.59 3,240.75	-279.74 -286.37	399.54 417.43	-281.55 -288.26	0.00	0.00	0.00
3,400.00	11.00	110.313	3,338.92	-200.37 -292.99	435.33	-200.20 -294.96	0.00	0.00	0.00
3,500.00	11.00	110.313	3,437.08	-292.99 -299.61	453.22	-294.96 -301.67	0.00	0.00	0.00
3,600.00	11.00	110.313	3,535.24	-306.24	471.12	-308.37	0.00	0.00	0.00
3,700.00	11.00	110.313	3,633.41	-312.86	489.01	-315.08	0.00	0.00	0.00
3,800.00	11.00	110.313	3,731.57	-319.49	506.90	-321.78	0.00	0.00	0.00
3,900.00	11.00	110.313	3,829.73	-326.11	524.80	-328.49	0.00	0.00	0.00
4,000.00	11.00	110.313	3,927.89	-332.73	542.69	-335.19	0.00	0.00	0.00
4,100.00	11.00	110.313	4,026.06	-339.36	560.59	-341.90	0.00	0.00	0.00
4,200.00	11.00	110.313	4,124.22	-345.98	578.48	-348.60	0.00	0.00	0.00
4,300.00	11.00	110.313	4,222.38	-352.61	596.38	-355.31	0.00	0.00	0.00
4,400.00	11.00	110.313	4,320.54	-359.23	614.27	-362.01	0.00	0.00	0.00
4,500.00	11.00	110.313	4,418.71	-365.85	632.16	-368.72	0.00	0.00	0.00
4,600.00	11.00	110.313	4,516.87	-372.48	650.06	-375.42	0.00	0.00	0.00
4,700.00	11.00	110.313	4,615.03	-379.10	667.95	-382.13	0.00	0.00	0.00
4,800.00	11.00	110.313	4,713.20	-385.73	685.85	-388.83	0.00	0.00	0.00
4,900.00	11.00	110.313	4,811.36	-392.35	703.74	-395.54	0.00	0.00	0.00
5,000.00	11.00	110.313	4,909.52	-398.97	721.64	-402.24	0.00	0.00	0.00

Database: EDM 5000.18 Single User Db

Company: ROC

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

Site: Poker Lake Unit 20-8/17 BD
Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.00	11.00	110.313	5,007.68	-405.60	739.53	-408.95	0.00	0.00	0.00
5,200.00	11.00	110.313	5,105.85	-412.22	757.42	-415.65	0.00	0.00	0.00
5,300.00	11.00	110.313	5,204.01	-418.84	775.32	-422.36	0.00	0.00	0.00
5,400.00	11.00	110.313	5,302.17	-425.47	793.21	-429.06	0.00	0.00	0.00
5,500.00	11.00	110.313	5,400.33	-432.09	811.11	-435.77	0.00	0.00	0.00
5,556.00	11.00	110.313	5,455.30	-435.80	821.13	-439.52	0.00	0.00	0.00
5,600.00	10.12	110.313	5,498.56	-438.60	828.69	-442.36	2.00	-2.00	0.00
5,700.00	8.12	110.313	5,597.29	-444.10	843.55	-447.93	2.00	-2.00	0.00
5,800.00	6.12	110.313	5,696.51	-448.41	855.18	-452.28	2.00	-2.00	0.00
5,900.00	4.12	110.313	5,796.11	-451.50	863.54	-455.42	2.00	-2.00	0.00
6,000.00	2.12	110.313	5,895.96	-453.39	868.65	-457.33	2.00	-2.00	0.00
6,100.00	0.12	110.313	5,995.93	-454.07	870.48	-458.02	2.00	-2.00	0.00
6,106.00	0.00	0.000	6,001.93	-454.07	870.49	-458.02	2.00	-2.00	-1,839.47
6,200.00	0.00	0.000	6,095.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,300.00	0.00	0.000	6,195.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,400.00	0.00	0.000	6,295.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,500.00	0.00	0.000	6,395.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,600.00	0.00	0.000	6,495.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,700.00	0.00	0.000	6,595.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,800.00	0.00	0.000	6,695.93	-454.07	870.49	-458.02	0.00	0.00	0.00
6,900.00	0.00	0.000	6,795.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,000.00	0.00	0.000	6,895.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,100.00	0.00	0.000	6,995.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,200.00	0.00	0.000	7,095.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,300.00	0.00	0.000	7,195.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,400.00	0.00	0.000	7,295.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,500.00	0.00	0.000	7,395.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,600.00	0.00	0.000	7,495.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,700.00	0.00	0.000	7,595.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,800.00	0.00	0.000	7,695.93	-454.07	870.49	-458.02	0.00	0.00	0.00
7,900.00	0.00	0.000	7,795.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,000.00	0.00	0.000	7,895.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,100.00	0.00	0.000	7,995.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,200.00	0.00	0.000	8,095.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,300.00	0.00	0.000	8,195.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,400.00	0.00	0.000	8,295.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,500.00	0.00	0.000	8,395.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,600.00	0.00	0.000	8,495.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,700.00	0.00	0.000	8,595.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,800.00	0.00	0.000	8,695.93	-454.07	870.49	-458.02	0.00	0.00	0.00
8,829.87	0.00	0.000	8,725.80	-454.07	870.49	-458.02	0.00	0.00	0.00
8,900.00	5.61	26.863	8,795.82	-451.01	872.04	-454.97	8.00	8.00	38.30
9,000.00	13.61	26.863	8,894.34	-436.13	879.58	-440.12	8.00	8.00	0.00
9,100.00	21.61	26.863	8,989.57	-409.16	893.24	-413.21	8.00	8.00	0.00
9,200.00 9,300.00	29.61 37.61	26.863 26.863	9,079.68 9,162.89	-370.63 -321.29	912.75 937.74	-374.77 -325.54	8.00 8.00	8.00 8.00	0.00 0.00
9,400.00	45.61	26.863	9.237.60	-262.10	967.73	-266.49	8.00	8.00	0.00
9,400.00 9,500.00	45.61 53.61	26.863	9,237.60 9,302.34	-262.10 -194.21	967.73 1,002.11	-266.49 -198.75	8.00 8.00	8.00 8.00	0.00
9,600.00	61.61	26.863	9,302.34	-194.21 -118.94	1,002.11	-196.75	8.00	8.00	0.00
9,700.00	69.61	26.863	9,397.13	-37.76	1,040.24	-42.66	8.00	8.00	0.00
9,800.00	77.61	26.863	9,425.32	47.76	1,124.67	42.65	8.00	8.00	0.00
9,900.00	85.61	26.863	9,439.90	135.94	1,169.34	130.63	8.00	8.00	0.00
9,954.87	90.00	26.863	9,442.00	184.84	1,194.11	179.42	8.00	8.00	0.00
10,000.00	90.00	25.960	9,442.00	225.26	1,214.18	219.75	2.00	0.00	-2.00

Database: EDM 5000.18 Single User Db

Company: ROC

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

Site: Poker Lake Unit 20-8/17 BD
Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.00 10,200.00	90.00 90.00	23.960 21.960	9,442.00 9,442.00	315.92 407.99	1,256.38 1,295.39	310.21 402.11	2.00 2.00	0.00 0.00	-2.00 -2.00
10,300.00 10,400.00	90.00 90.00	19.960 17.960	9,442.00 9,442.00	501.37 595.94	1,331.16 1,363.65	495.32 589.74	2.00 2.00	0.00 0.00	-2.00 -2.00
10,500.00	90.00	15.960	9,442.00	691.58	1,392.82	685.25	2.00	0.00	-2.00
10,600.00	90.00	13.960	9,442.00	788.19	1,418.63	781.74	2.00	0.00	-2.00
10,700.00	90.00	11.960	9,442.00	885.63	1,441.06	879.09	2.00	0.00	-2.00
10,800.00	90.00	9.960	9,442.00	983.81	1,460.07	977.17	2.00	0.00	-2.00
10,900.00	90.00	7.960	9,442.00	1,082.58	1,475.64	1,075.87	2.00	0.00	-2.00
11,000.00	90.00	5.960	9,442.00	1,181.84	1,487.76	1,175.07	2.00	0.00	-2.00
11,100.00	90.00	3.960	9,442.00	1,281.46	1,496.41	1,274.66	2.00	0.00	-2.00
11,200.00	90.00	1.960	9,442.00	1,381.32	1,501.57	1,374.49	2.00	0.00	-2.00
11,300.00	90.00	359.960	9,442.00	1,481.30	1,503.25	1,474.46	2.00	0.00	-2.00
11,311.18	90.00	359.737	9,442.00	1,492.48	1,503.22	1,485.65	2.00	0.00	-2.00
11,400.00	90.00	359.737	9,442.00	1,581.30	1,502.81	1,574.46	0.00	0.00	0.00
11,500.00	90.00	359.737	9,442.00	1,681.30	1,502.35	1,674.46	0.00	0.00	0.00
11,600.00	90.00	359.737	9,442.00	1,781.30	1,501.89	1,774.46	0.00	0.00	0.00
11,700.00	90.00	359.737	9,442.00	1,881.30	1,501.43	1,874.46	0.00	0.00	0.00
11,800.00	90.00	359.737	9,442.00	1,981.30	1,500.97	1,974.46	0.00	0.00	0.00
11,900.00	90.00	359.737	9,442.00	2,081.29	1,500.51	2,074.46	0.00	0.00	0.00
12,000.00	90.00	359.737	9,442.00	2,181.29	1,500.05	2,174.46	0.00	0.00	0.00
12,100.00	90.00	359.737	9,442.00	2,281.29	1,499.59	2,274.46	0.00	0.00	0.00
12,200.00	90.00	359.737	9,442.00	2,381.29	1,499.13	2,374.46	0.00	0.00	0.00
12,300.00	90.00	359.737	9,442.00	2,481.29	1,498.67	2,474.46	0.00	0.00	0.00
12,400.00	90.00	359.737	9,442.00	2,581.29	1,498.21	2,574.46	0.00	0.00	0.00
12,500.00	90.00	359.737	9,442.00	2,681.29	1,497.75	2,674.46	0.00	0.00	0.00
12,600.00	90.00	359.737	9,442.00	2,781.29	1,497.30	2,774.46	0.00	0.00	0.00
12,700.00	90.00	359.737	9,442.00	2,881.29	1,496.84	2,874.46	0.00	0.00	0.00
12,800.00	90.00	359.737	9,442.00	2,981.29	1,496.38	2,974.46	0.00	0.00	0.00
12,900.00	90.00	359.737	9,442.00	3,081.28	1,495.92	3,074.46	0.00	0.00	0.00
13,000.00	90.00	359.737	9,442.00	3,181.28	1,495.46	3,174.46	0.00	0.00	0.00
13,012.42	90.00	359.737	9,442.00	3,193.70	1,495.40	3,186.88	0.00	0.00	0.00
13,100.00	90.00	1.488	9,442.00	3,281.27	1,496.34	3,274.45	2.00	0.00	2.00
13,200.00	90.00	3.488	9,442.00	3,381.18	1,500.68	3,374.33	2.00	0.00	2.00
13,300.00	90.00	5.488	9,442.00	3,480.86	1,508.50	3,473.98	2.00	0.00	2.00
13,400.00	90.00	7.488	9,442.00	3,580.22	1,519.80	3,573.28	2.00	0.00	2.00
13,500.00	90.00	9.488	9,442.00	3,679.12	1,534.56	3,672.12	2.00	0.00	2.00
13,600.00	90.00	11.488	9,442.00	3,777.44	1,552.77	3,770.36	2.00	0.00	2.00
13,600.58	90.00	11.500	9,442.00	3,778.01	1,552.88	3,770.93	2.00	0.00	2.00
13,700.00	90.00	9.512	9,442.00	3,875.76	1,571.01	3,868.59	2.00	0.00	-2.00
13,800.00	90.00	7.512	9,442.00	3,974.65	1,585.81	3,967.42	2.00	0.00	-2.00
13,900.00	90.00	5.512	9,442.00	4,074.00	1,597.15	4,066.71	2.00	0.00	-2.00
14,000.00	90.00	3.512	9,442.00	4,173.69	1,605.01	4,166.36	2.00	0.00	-2.00
14,100.00	90.00	1.512	9,442.00	4,273.59	1,609.40	4,266.24	2.00	0.00	-2.00
14,200.00	90.00	359.512	9,442.00	4,373.58	1,610.29	4,366.22	2.00	0.00	-2.00
14,300.00	90.00	357.512	9,442.00	4,473.54	1,607.69	4,466.20	2.00	0.00	-2.00
14,400.00	90.00	355.512	9,442.00	4,573.35	1,601.61	4,566.03	2.00	0.00	-2.00
14,500.00	90.00	353.512	9,442.00	4,672.88	1,592.04	4,665.61	2.00	0.00	-2.00
14,600.00	90.00	351.512	9,442.00	4,772.03	1,579.01	4,764.81	2.00	0.00	-2.00
14,700.00	90.00	349.512	9,442.00	4,870.65	1,562.53	4,863.51	2.00	0.00	-2.00
14,775.58	90.00	348.000	9,442.00	4,944.78	1,547.79	4,937.71	2.00	0.00	-2.00
14,800.00	90.00	348.488	9,442.00	4,968.69	1,542.82	4,961.64	2.00	0.00	2.00
14,900.00	90.00	350.488	9,442.00	5,067.00	1,524.57	5,060.03	2.00	0.00	2.00
15,000.00	90.00	352.488	9,442.00	5,165.90	1,509.77	5,158.99	2.00	0.00	2.00

Database: EDM 5000.18 Single User Db

Company: ROC

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

Site: Poker Lake Unit 20-8/17 BD
Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,100.00	90.00	354.488	9,442.00	5,265.25	1,498.43	5,258.39	2.00	0.00	2.00
15,200.00	90.00	356.488	9,442.00	5,364.93	1,490.57	5,358.11	2.00	0.00	2.00
15,300.00	90.00	358.488	9,442.00	5,464.83	1,486.18	5,458.03	2.00	0.00	2.00
15,359.33	90.00	359.675	9,442.00	5,524.15	1,485.23	5,517.35	2.00	0.00	2.00
15,400.00	90.00	359.675	9,442.00	5,564.82	1,485.00	5,558.03	0.00	0.00	0.00
15,500.00	90.00	359.675	9,442.00	5,664.82	1,484.44	5,658.03	0.00	0.00	0.00
15,600.00	90.00	359.675	9,442.00	5,764.82	1,483.87	5,758.03	0.00	0.00	0.00
15,700.00	90.00	359.675	9,442.00	5,864.82	1,483.30	5,858.03	0.00	0.00	0.00
15,800.00	90.00	359.675	9,442.00	5,964.82	1,482.73	5,958.03	0.00	0.00	0.00
15,900.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00	359.675 359.675 359.675	9,442.00 9,442.00 9,442.00 9,442.00	6,064.81 6,164.81 6,264.81	1,482.17 1,481.60 1,481.03	6,058.03 6,158.03 6,258.03	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
16,200.00	90.00	359.675	9,442.00	6,364.81	1,480.46	6,358.03	0.00	0.00	0.00
16,300.00	90.00	359.675	9,442.00	6,464.81	1,479.90	6,458.03	0.00	0.00	0.00
16,400.00	90.00	359.675	9,442.00	6,564.81	1,479.33	6,558.03	0.00	0.00	0.00
16,400.00 16,500.00 16,600.00 16,700.00	90.00 90.00 90.00 90.00	359.675 359.675 359.675 359.675	9,442.00 9,442.00 9,442.00 9,442.00	6,564.81 6,664.80 6,864.80	1,479.33 1,478.76 1,478.19 1,477.63	6,558.03 6,658.03 6,758.03 6,858.03	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
16,800.00	90.00	359.675	9,442.00	6,964.80	1,477.06	6,958.03	0.00	0.00	0.00
16,900.00	90.00	359.675	9,442.00	7,064.80	1,476.49	7,058.03	0.00	0.00	0.00
17,000.00	90.00	359.675	9,442.00	7,164.80	1,475.92	7,158.03	0.00	0.00	0.00
17,100.00	90.00	359.675	9,442.00	7,264.80	1,475.36	7,258.03	0.00	0.00	0.00
17,200.00	90.00	359.675	9,442.00	7,364.79	1,474.79	7,358.03	0.00	0.00	0.00
17,300.00	90.00	359.675	9,442.00	7,464.79	1,474.22	7,458.03	0.00	0.00	0.00
17,400.00	90.00	359.675	9,442.00	7,564.79	1,473.65	7,558.03	0.00	0.00	0.00
17,500.00	90.00	359.675	9,442.00	7,664.79	1,473.09	7,658.03	0.00	0.00	0.00
17,600.00	90.00	359.675	9,442.00	7,764.79	1,472.52	7,758.03	0.00	0.00	0.00
17,700.00	90.00	359.675	9,442.00	7,864.79	1,471.95	7,858.03	0.00	0.00	0.00
17,800.00	90.00	359.675	9,442.00	7,964.78	1,471.38	7,958.03	0.00	0.00	0.00
17,900.00	90.00	359.675	9,442.00	8,064.78	1,470.82	8,058.03	0.00	0.00	0.00
18,000.00	90.00	359.675	9,442.00	8,164.78	1,470.25	8,158.03	0.00	0.00	0.00
18,100.00	90.00	359.675	9,442.00	8,264.78	1,469.68	8,258.03	0.00	0.00	0.00
18,200.00	90.00	359.675	9,442.00	8,364.78	1,469.11	8,358.03	0.00	0.00	0.00
18,300.00	90.00	359.675	9,442.00	8,464.78	1,468.55	8,458.03	0.00	0.00	0.00
18,400.00	90.00	359.675	9,442.00	8,564.77	1,467.98	8,558.03	0.00	0.00	0.00
18,500.00	90.00	359.675	9,442.00	8,664.77	1,467.41	8,658.03	0.00	0.00	0.00
18,600.00	90.00	359.675	9,442.00	8,764.77	1,466.84	8,758.02	0.00	0.00	0.00
18,700.00	90.00	359.675	9,442.00	8,864.77	1,466.28	8,858.02	0.00	0.00	0.00
18,800.00	90.00	359.675	9,442.00	8,964.77	1,465.71	8,958.02	0.00	0.00	0.00
18,900.00	90.00	359.675	9,442.00	9,064.77	1,465.14	9,058.02	0.00	0.00	0.00
19,000.00	90.00	359.675	9,442.00	9,164.77	1,464.57	9,158.02	0.00	0.00	0.00
19,100.00	90.00	359.675	9,442.00	9,264.76	1,464.01	9,258.02	0.00	0.00	0.00
19,200.00	90.00	359.675	9,442.00	9,364.76	1,463.44	9,358.02	0.00	0.00	0.00
19,300.00	90.00	359.675	9,442.00	9,464.76	1,462.87	9,458.02	0.00	0.00	0.00
19,400.00	90.00	359.675	9,442.00	9,564.76	1,462.31	9,558.02	0.00	0.00	0.00
19,500.00	90.00	359.675	9,442.00	9,664.76	1,461.74	9,658.02	0.00	0.00	0.00
19,600.00	90.00	359.675	9,442.00	9,764.76	1,461.17	9,758.02	0.00	0.00	0.00
19,700.00	90.00	359.675	9,442.00	9,864.75	1,460.60	9,858.02	0.00	0.00	0.00
19,800.00	90.00	359.675	9,442.00	9,964.75	1,460.04	9,958.02	0.00	0.00	0.00
19,900.00	90.00	359.675	9,442.00	10,064.75	1,459.47	10,058.02	0.00	0.00	0.00
20,000.00	90.00	359.675	9,442.00	10,164.75	1,458.90	10,158.02	0.00	0.00	0.00
20,100.00	90.00	359.675	9,442.00	10,264.75	1,458.33	10,258.02	0.00	0.00	0.00
20,200.00	90.00	359.675	9,442.00	10,364.75	1,457.77	10,358.02	0.00	0.00	0.00
20,300.00	90.00	359.675	9,442.00	10,464.74	1,457.20	10,458.02	0.00	0.00	0.00

EDM 5000.18 Single User Db Database:

Company:

Project:

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

Poker Lake Unit 20-8/17 BD Site: Well: Poker Lake Unit 20-8 BD 204H

Wellbore: ОН Design: Plan 0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,400.00	90.00	359.675	9,442.00	10,564.74	1,456.63	10,558.02	0.00	0.00	0.00
20,500.00	90.00	359.675	9,442.00	10,664.74	1,456.06	10,658.02	0.00	0.00	0.00
20,600.00	90.00	359.675	9,442.00	10,764.74	1,455.50	10,758.02	0.00	0.00	0.00
20,700.00	90.00	359.675	9,442.00	10,864.74	1,454.93	10,858.02	0.00	0.00	0.00
20,800.00	90.00	359.675	9,442.00	10,964.74	1,454.36	10,958.02	0.00	0.00	0.00
20,900.00	90.00	359.675	9,442.00	11,064.73	1,453.79	11,058.02	0.00	0.00	0.00
21,000.00	90.00	359.675	9,442.00	11,164.73	1,453.23	11,158.02	0.00	0.00	0.00
21,100.00	90.00	359.675	9,442.00	11,264.73	1,452.66	11,258.02	0.00	0.00	0.00
21,200.00	90.00	359.675	9,442.00	11,364.73	1,452.09	11,358.02	0.00	0.00	0.00
21,300.00	90.00	359.675	9,442.00	11,464.73	1,451.52	11,458.02	0.00	0.00	0.00
21,400.00	90.00	359.675	9,442.00	11,564.73	1,450.96	11,558.02	0.00	0.00	0.00
21,500.00	90.00	359.675	9,442.00	11,664.72	1,450.39	11,658.02	0.00	0.00	0.00
21,600.00	90.00	359.675	9,442.00	11,764.72	1,449.82	11,758.02	0.00	0.00	0.00
21,621.38	90.00	359.675	9,442.00	11,786.10	1,449.70	11,779.40	0.00	0.00	0.00
21,700.00	90.00	359.675	9,442.00	11,864.72	1,449.25	11,858.02	0.00	0.00	0.00
21,711.38	90.00	359.675	9,442.00	11,876.10	1,449.19	11,869.40	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL PLU 20-8 BD 204H - plan hits target cen - Rectangle (sides W		0.000 D0.00)	0.00	0.00	0.00	404,764.00	632,574.70	32° 6′ 43.519 N	103° 54' 18.525 W
P13 PLU 20-8 BD 204H - plan misses target - Point	0.00 center by 0.02	0.000 Pusft at 1536	9,442.00 2.08usft MD	5,526.90 (9442.00 TVD	1,485.20 ), 5526.90 N,	410,290.90 1485.22 E)	634,059.90	32° 7′ 38.156 N	103° 54' 0.998 W
PPP#1 PLU 20-8 BD 20- - plan misses target - Point	0.00 center by 372		9,442.00 94.63usft MI	-384.10 D (9233.83 TV	681.40 D, -265.51 N,	404,379.90 966.00 E)	633,256.10	32° 6' 39.691 N	103° 54' 10.620 W
BHL PLU 20-8 BD 204H - plan misses target - Point	0.00 center by 0.11	0.000 usft at 2171	9,442.00 1.38usft MD	11,876.10 (9442.00 TVD	1,449.30 , 11876.10 N,	416,640.10 1449.19 E)	634,024.00	32° 8′ 40.991 N	103° 54' 1.119 W
FTP PLU 20-8 BD 204H - plan misses target - Point	0.00 center by 296		9,442.00 00.00usft MI	-454.10 D (9237.60 TV	870.50 D, -262.10 N,	404,309.90 967.73 E)	633,445.20	32° 6′ 38.991 N	103° 54' 8.424 W
P6 PLU 20-8 BD 204H - plan misses target - Point	0.00 center by 0.01	0.000 usft at 1131	9,442.00 2.40usft MD	1,493.70 (9442.00 TVD	1,503.20 , 1493.70 N,	406,257.70 1503.21 E)	634,077.90	32° 6′ 58.242 N	103° 54' 0.977 W
LTP PLU 20-8 BD 204H - plan hits target cen - Point	0.00 ter	0.000	9,442.00	11,786.10	1,449.70	416,550.10	634,024.40	32° 8′ 40.100 N	103° 54' 1.118 W
PPP#2 PLU 20-8 BD 20- - plan misses target - Point	0.00 center by 0.03	0.000 Busft at 1906	9,442.00 0.44usft MD	9,225.20 (9442.00 TVD	1,464.20 ), 9225.20 N,	413,989.20 1464.23 E)	634,038.90	32° 8′ 14.756 N	103° 54' 1.069 W
P7 PLU 20-8 BD 204H - plan hits target cen - Point	0.00 ter	0.000	9,442.00	3,193.70	1,495.40	407,957.70	634,070.10	32° 7′ 15.066 N	103° 54' 0.988 W

Database: EDM 5000.18 Single User Db

Company: RO

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

Site: Poker Lake Unit 20-8/17 BD
Well: Poker Lake Unit 20-8 BD 204H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Poker Lake Unit 20-8 BD 204H

RKB32' @ 3206.00usft (TBD) RKB32' @ 3206.00usft (TBD)

Grid

rmations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	728.90	728.90	Rustler			
	955.14	955.06	Salado			
	3,373.57	3,312.97	Base of Salt			
	3,703.66	3,637.00	Delaware			
	4,644.81	4,560.86	Cherry Canyon			
	6,420.89	6,316.82	Brushy Canyon			
	7,138.50	7,034.43	Basal Brushy Canyon			
	7,667.71	7,563.64	Bone Spring Lm.			
	7,811.06	7,706.99	Avalon			
	8,205.17	8,101.10	Lower Avalon			
	8,489.41	8,385.34	1st Bone Spring Sand			
	8,844.00	8,739.93	2nd Bone Spring Shale			
	9,005.80	8,899.97	2nd Bone Spring Lime			
	9,166.56	9,050.23	2nd Bone Spring Sand			
	9,954.87	9,442.00	2rd Bone Spring Sand Lower Landing			

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

ExxonMobil POKER LAKE UNIT 20-8 BD - 204H Projected TD: 21711' MD / 9442' TVD SHL: 1431' FSL & 1994' FWL , Section 20, T25S, R30E BHL: 2651' FSL & 1850' FEL , Section 8, T25S, R30E Eddy County, NM

# 1. Geologic Name of Surface Formation A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	729'	Water
Salado	955'	Water
Base of Salt	3313'	Water
Delaware	3637'	Water
Cherry Canyon	4561'	Water/Oil/Gas
Brushy Canyon	6317'	Water/Oil/Gas
Basal Brushy Canyon	7034'	Water/Oil/Gas
Bone Spring Lm.	7564'	Water/Oil/Gas
Avalon	7707'	Water/Oil/Gas
Lower Avalon	8101'	Water/Oil/Gas
1st Bone Spring Sand	8385'	Water/Oil/Gas
2nd Bone Spring Shale	8740'	Water/Oil/Gas
2nd Bone Spring Lime	8900'	Water/Oil/Gas
2nd Bone Spring Sand	9050'	Water/Oil/Gas
rd Bone Spring Sand Lower Landin	9442'	Water/Oil/Gas

	Summa	

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

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 930' and circulating cement back to surface.

# 3. Primary Casing Design Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' - 930'	930'	9-5/8"	40	J55	BTC	New	13.84	12.76	5.32
8.75"	0' - 4000'	3928'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.01	8.65	3.42
8.75"	4000' – 8680'	8576'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.33	5.95	2.47
6.75"	0' - 8580'	8476'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.34	3.35	2.91
6.75"	8580' – 21711'	9442'	5-1/2"	20	P110-CY	Tenaris Wedge 441	New	1.18	2.71	2.68

#### Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.

The planned kick off point is located at: 8830' MD / 8726' TVD.

Wellhead:

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

Wellhead will be installed by manufacturer's representatives.

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

# 4. Cement Program

			P	rimary Cementi	ng			
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	187	12.4	2.11	0	930	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	630	930	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	221	14.8	1.45	6317	8,680	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	952	13.2	1.44	8180	21,711	25%	Production 1 Class C Tail Cement
			Brea	l Idenhead Ceme	nting			<u> </u>
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cement	ted Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	591	14.8	1.45	0 -	- 6317'	35%	Intermediate Class C Bradenhead Squeeze Cement

# Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline	

# 5. Pressure Control Equipment

Section	5	Summarv:

Section 5 Summary:	0.0
Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 10M triple Ram BC	JP.
All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172.	
No break testing will be done if intermediate casing point penetrates the Wolfcamp	
Requested Variances	
4A) Offline Cementing Variance  XOM requests the option to perform offline cement and bradenhead jobs (if needed) SURFACE, INTERMEDIATE, and PRODUCTION casing strings where batch dr is approved. XOM will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving the rig. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.	off
5A) Break Test Variance A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point do not penetrate the Wolfcamp Formation.	
5B) Flex Hose Variance A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.	on
8A) Open Hole Logging Variance Open hole logging will not be done on this well.	
10A) Spudder Rig Variance XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.	
10B) Batch Drilling Variance XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are completed, XOM will begin drilling the production hole on each of the wells.	

### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppq)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' - 930'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
930' – 8680'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8680' – 21711'	6.75"	ОВМ	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

# Section 6 Summary:

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

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

#### 7. Auxiliary Well Control and Monitoring Equipment

# Section 7 Summary:

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

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

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

### 8. Logging, Coring and Testing Program

### Section 8 Summary:

Open hole logging will not be done on this well.

### 9. Abnormal Pressures and Temperatures / Potential Hazards

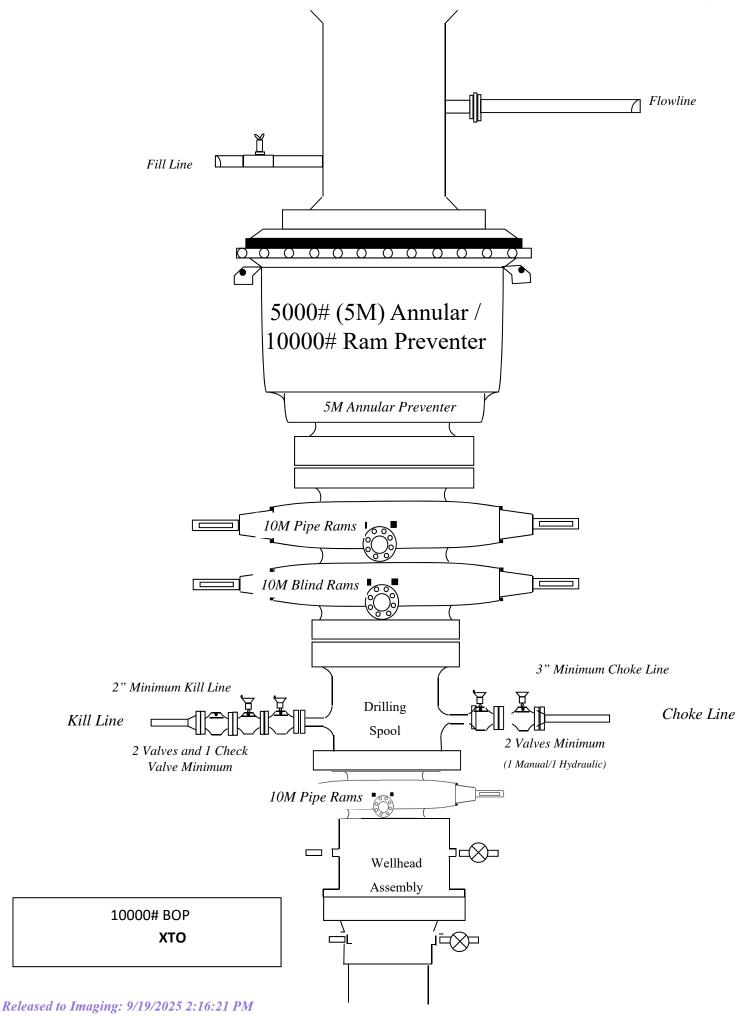
#### Section 9 Summary:

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

# 10. Anticipated Starting Date and Duration of Operations

# Section 10 Summary:

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



ALL DIMENSIONS APPROXIMA

# 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

DELAWARE BASIN				
DRAWN	VJK	31MAR		
APPRV				

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

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

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

# **Background**

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

# **Supporting Documentation**

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

bie C.4—Initial Pressure Te		-High Proceuro
Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,
250 to 350 (1.72 to 2.41)	MASP for the well program	
e during the evaluation period. The pessure tested on the largest and sm promone wellhead to another withing	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program.
	Pressure Test—Low Pressure <sup>20</sup> psig (MPa)  250 to 350 (1.72 to 2.41)  shall be a minimum of five minutes.  during the evaluation period. The pessure tested on the largest and sm	Pressure** Change Out of Component, Elastomer, or Ring Gasket  250 to 350 (1.72 to 2.41) RWP of annular preventer  250 to 350 (1.72 to 2.41) RWP of ram preventer or wellhead system, whichever is lower  250 to 350 (1.72 to 2.41) RWP of side outlet valve or wellhead system, whichever is lower  250 to 350 (1.72 to 2.41) RWP of ram preventers or wellhead system, whichever is lower  250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or I whichever is lower

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 Oand 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

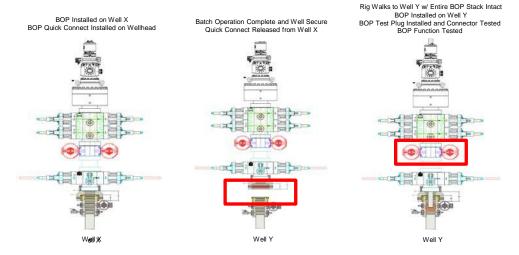
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

# **Procedures**

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

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

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



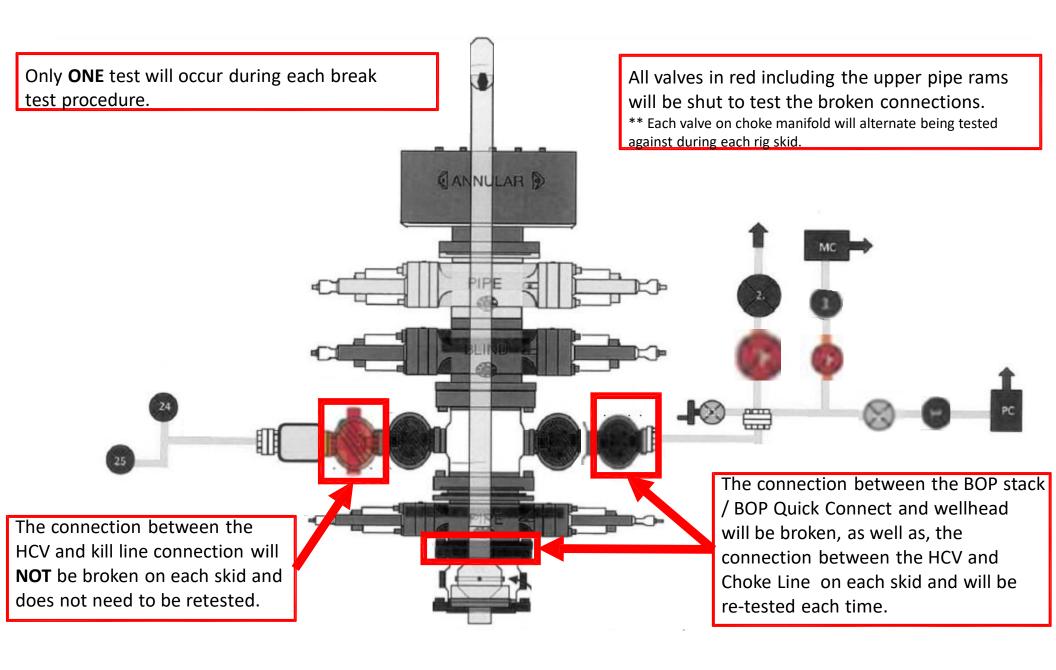
# **Summary**

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

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

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

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





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NEW CHOKE HOSE

INSTAUED 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.

CI	CT	OM	ED.	
CU	31	OIA	ER.	

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 #:

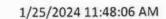
74621 H3-012524-1

SIGNATURE: F. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

# H3-15/16





# **TEST REPORT**

CUSTOMER

Company:

Nabors Industries Inc.

**TEST OBJECT** 

Serial number: H3-012524-1

Lot number:

Production description:

74621/66-1531

Description:

74621/66-1531

Sales order #: Customer reference: 529480

Hose ID:

3" 16C CK

FG1213

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

15000.00

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

Test pressure: Test pressure hold:

3600.00

sec psi

psi

Description:

Work pressure: Work pressure hold: 10000.00

Fitting 2:

3.0 x 4-1/16 10K

Length difference:

900.00 0.00 0.00

sec % inch

Part number: Description:

Length difference:

Visual check: Pressure test result:

PASS

Length measurement result:

Length:

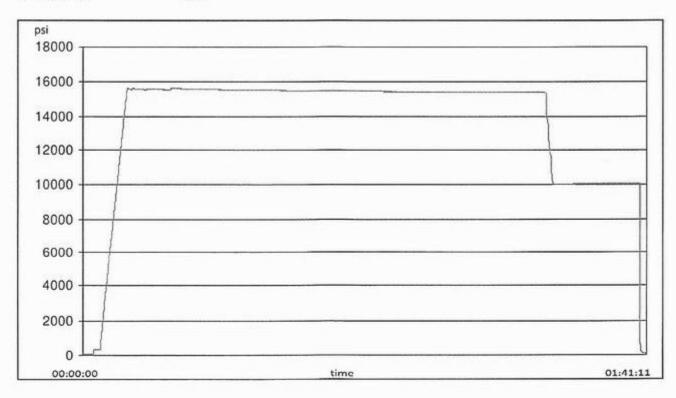
45

feet

n . . . . /n

Test operator:

Travis





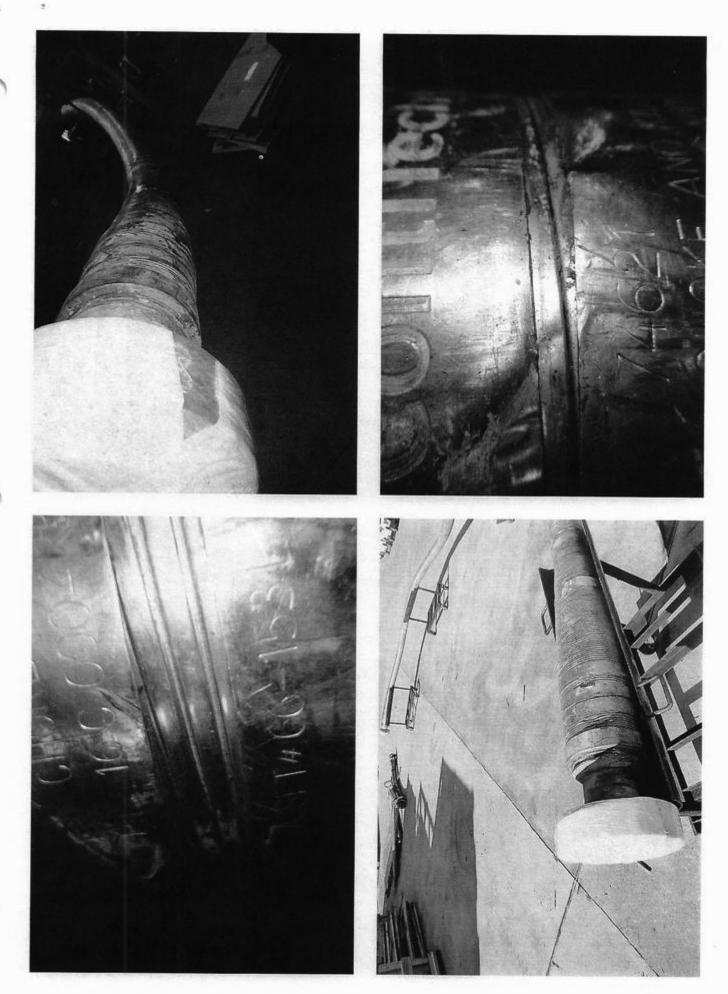
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1/25/2024 11:48:06 AM

# **TEST REPORT**

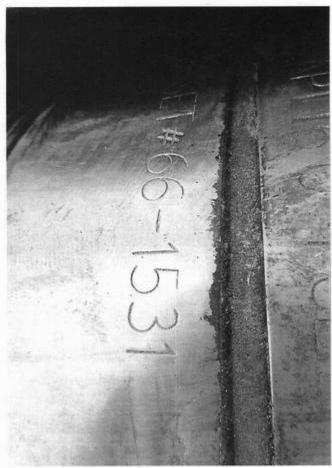
# **GAUGE TRACEABILITY**

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

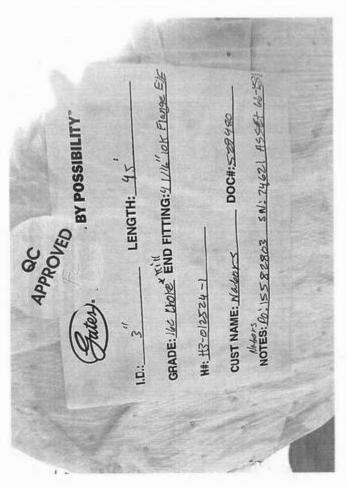


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# **XTO Permian Operating, LLC Offline Cementing Variance Request**

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

# 1. Cement Program

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

# 2. Offline Cementing Procedure

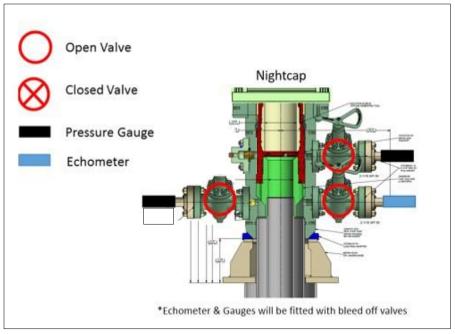
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



Annular packoff with both external and internal seals

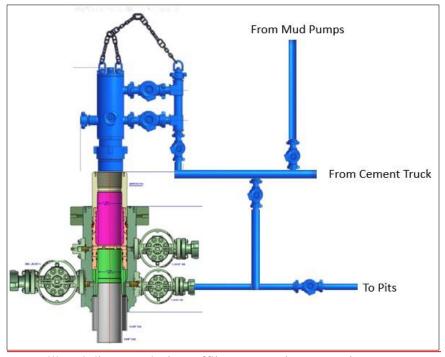
# **XTO Permian Operating, LLC Offline Cementing Variance Request**



Wellhead diagram during skidding operations

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

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



Wellhead diagram during offline cementing operations

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



# Offline Production Cementing

Delaware Basin | 18 March 2025

Energy lives here

# Variance Request for Offline Production Cementing

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

# Supporting Materials:

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



# Criteria for Offline Cementing

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

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

# Trigger to reevaluate plan

# Offline Cementing Procedure

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



OFFLINE CEMENTING

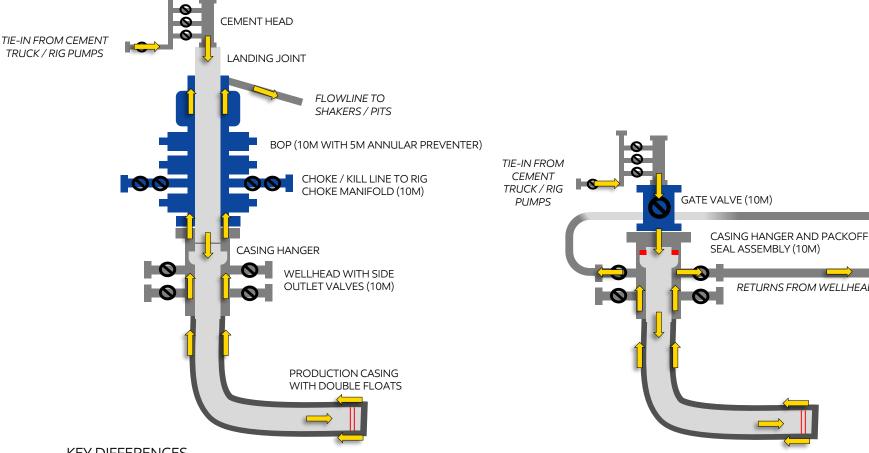
**MANIFOLD** 

# Process and Equipment

# **ONLINE CEMENTING**

# OFFLINE CEMENTING

RETURNS FROM WELLHEAD SIDE OUTLET VALVES



# **KEY DIFFERENCES**

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



TO SHAKERS / PITS

TO OPEN TOP TANK

TO RIG CHOKE MANIFOLD

# Barrier Comparison

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

# Well Control Response Plan

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

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

# ExonMobil

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

# **Description of Operations:**

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



# TenarisHydril Wedge 441®



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

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

#### Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

### **Connection Data**

Geometry	
Connection OD	5.852 in.
Coupling Length	8.714 in.
Connection ID	4.778 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	81.50 %
Joint Yield Strength	522 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	81.50 %
Compression Strength	522 x1000 lb
Max. Allowable Bending	72.59 °/100 ft
External Pressure Capacity	11,100 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	32,000 ft-lb
Yield Torque	38,000 ft-lb
Buck-On	
Minimum	19,200 ft-lb
Maximum	20,700 ft-lb

# Notes

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

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# TenarisHydril Wedge 441®



Coupling Pipe Body

Grade: P110-ICY Grade: P110-ICY

Body: White 1st Band: White

1st Band: Pale Green 2nd Band: Pale Green

2nd Band: - 3rd Band: Pale Green

3rd Band: - 4th Band: 
5th Band: -

6th Band: -

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

#### Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

### **Connection Data**

Geometry	
Connection OD	5.852 in.
Coupling Length	8.714 in.
Connection ID	4.778 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	81.50 %
Joint Yield Strength	594 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	81.50 %
Compression Strength	594 x1000 lb
Max. Allowable Bending	84.76 °/100 ft
External Pressure Capacity	12,300 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	36,000 ft-lb
Yield Torque	42,000 ft-lb
Buck-On	
Minimum	19,200 ft-lb
Maximum	20,700 ft-lb

### Notes

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

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# TenarisHydril Wedge 511



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

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

### Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	1068 x1000 lb
Min. Internal Yield Pressure	11,070 psi
SMYS	125,000 psi
Collapse Pressure	7360 psi

#### **Connection Data**

Geometry	
Connection OD	7.625 in.
Connection ID	6.787 in.
Make-up Loss	3.704 in.
Threads per inch	3.28
Connection OD Option	Regular
Connection OD Option	Regula

Performance	
Tension Efficiency	61.10 %
Joint Yield Strength	653 x1000 lb
Internal Pressure Capacity	11,070 psi
Compression Efficiency	73.80 %
Compression Strength	788 x1000 lb
Max. Allowable Bending	45.83 °/100 ft
External Pressure Capacity	7360 psi

Make-Up Torques	
wake-op forques	
Minimum	5900 ft-lb
Optimum	7100 ft-lb
Maximum	10,300 ft-lb
Operation Limit Torques	
Operating Torque	55,000 ft-lb
Yield Torque	82,000 ft-lb

# Notes

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# TenarisHydril Wedge 511



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

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

# Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	683 x1000 lb
Min. Internal Yield Pressure	6890 psi
SMYS	80,000 psi
Collapse Pressure	5900 psi

#### **Connection Data**

Geometry	
Connection OD	7.625 in.
Connection ID	6.787 in.
Make-up Loss	3.704 in.
Threads per inch	328
Connection OD Option	Regular

Performance	
Tension Efficiency	61.10 %
Joint Yield Strength	417 x1000 lb
Internal Pressure Capacity	6890 psi
Compression Efficiency	73.80 %
Compression Strength	504 x1000 lb
Max. Allowable Bending	29.33 °/100 ft
External Pressure Capacity	5900 psi

Make-Up Torques	
Minimum	5900 ft-lb
Optimum	7100 ft-lb
Maximum	10,300 ft-lb
Operation Limit Torques	
Operating Torque	35,000 ft-lb
Yield Torque	52,000 ft-lb

### Notes

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

General Information Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 507567

# **ACKNOWLEDGMENTS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	507567
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

### ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 507567

### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	507567
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

# CONDITIONS

Created By	Condition	Condition Date
mvenkatesh	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/19/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/19/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/19/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/19/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/19/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	9/19/2025