

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553204

Operator: XTO PERMIAN OPERATING
LLC**Notice of Intent**

Sundry ID: 2784404

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/10/2024

Time Sundry Submitted: 02:54

Date proposed operation will begin: 06/11/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 391' FNL & 298' FWL OF SECTION 21-T24S-R30E 201' FNL & 297' FWL OF SECTION 21-T24S-R30E FTP: 386' FNL & 323' FWL OF SECTION 21-T24S-R30E 100' FNL & 331' FWL OF SECTION 21-T24S-R30E LTP: 330' FNL & 411' FWL OF SECTION 33-T23S-R30E 2542' FNL & 331' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 411' FWL OF SECTION 33-T23S-R30E 2632' FNL & 331' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32553' MD; 10857' TVD (Wolfcamp) to 22990' MD; 10194' TVD (Bone Spring 3 Shale). A 6-3/4" pilot hole will be drilled into the Wolfcamp B. The Pilot hole will then be plugged back per cement below. A 6-3/4" curve and 6-3/4" lateral hole will be drilled to 22990' MD/TD and 5-1/2" production casing will be set at TD and cemented back up into the intermediate shoe (estimate TOC at 8980'). Pilot Hole: 6-3/4" Open Hole Plug 1: 12,311' TVD - 11,500' TVD (isolating Wolfcamp from the Bone Spring) 153 sxs Class H (mixed at 16.4 ppg, 1.08 ft3/sx, 4.52 gal/sx water) Plug 2: 10,200' - 9,700' (Kick-Off Plug) 78 sxs Class H (mixed at 17.5 ppg, 0.95 ft3/sx, 3.52 gal/sx water) Open hole logging will include triple combo in the pilot hole section. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan. A saturated salt brine will be utilized while drilling through the salt formations.

NOI Attachments**Procedure Description**

PLU_21_DTD_101H_TLG_Sundry_Docs_20240905122011.pdf

US Well Number: 3001553204

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

POKER_LAKE_UNIT_21_DTD_101H_COA_20240916150052.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: TERRA SEBASTIAN

Signed on: SEP 05, 2024 12:20 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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: 09/17/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	NMLC068430
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 21 DTD/101H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553204
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 21/T24S/R30E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:
SHL: 391' FNL & 298' FWL OF SECTION 21-T24S-R30E 201' FNL & 297' FWL OF SECTION 21-T24S-R30E
FTP: 386' FNL & 323' FWL OF SECTION 21-T24S-R30E 100' FNL & 331' FWL OF SECTION 21-T24S-R30E
LTP: 330' FNL & 411' FWL OF SECTION 33-T23S-R30E 2542' FNL & 331' FWL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 411' FWL OF SECTION 33-T23S-R30E 2632' FNL & 331' FWL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 32553 MD; 10857 TVD (Wolfcamp) to 22990 MD; 10194 TVD (Bone Spring 3 Shale).

A 6-3/4 pilot hole will be drilled into the Wolfcamp B. The Pilot hole will then be plugged back per cement below. A 6-3/4 curve and 6-3/4

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) TERRA SEBASTIAN / Ph: (432) 999-3107	Title Regulatory Advisor
Signature (Electronic Submission)	Date 09/05/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/17/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

lateral hole will be drilled to 22990 MD/TD and 5-1/2 production casing will be set at TD and cemented back up into the intermediate shoe (estimate TOC at 8980).

Pilot Hole: 6-3/4" Open Hole

Plug 1: 12,311' TVD - 11,500' TVD (isolating Wolfcamp from the Bone Spring)

153 sxs Class H (mixed at 16.4 ppg, 1.08 ft³/sx, 4.52 gal/sx water)

Plug 2: 10,200' - 9,700' (Kick-Off Plug)

78 sxs Class H (mixed at 17.5 ppg, 0.95 ft³/sx, 3.52 gal/sx water)

Open hole logging will include triple combo in the pilot hole section.

See attached Drilling Plan for updated cement and casing program.

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

A saturated salt brine will be utilized while drilling through the salt formations.

Location of Well

0. SHL: NWNW / 391 FNL / 298 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209383 / LONG: -103.893921 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 386 FNL / 323 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209395 / LONG: -103.893841 (TVD: 10857 feet, MD: 11204 feet)

BHL: NWNW / 200 FNL / 411 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268083 / LONG: -103.893554 (TVD: 10857 feet, MD: 32553 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC068430
LOCATION:	Sec.21 , T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 21 DTD 101H
SURFACE HOLE FOOTAGE:	201'N & 297'W
BOTTOM HOLE FOOTAGE:	2632'N & 311'W

Changes approved through engineering via **Sundry 2784404** on 9-16-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **977** feet (a minimum of **70 feet** (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6213'**
- b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

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

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

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

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (**575-361-2822 Eddy County**) 24 hours prior to the commencement of any plugging operations and when tagging of bottom plug, which must be a minimum of 200' in length.

Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug. Note plug tops on subsequent drilling report.

- ❖ **Mud Requirement:** Mud shall be placed between all or below plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- ❖ **Cement requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.
- ❖ **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed to the BLM. The report should give in detail the manner in which the plugging work was

carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date pilot hole was plugged and tagged.**

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Approved by Zota Stevens on 9/16/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code 97753	³ Pool Name WILDCAT S243006B;LWR BONE SPRING
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 21 DTD	⁶ Well Number 101H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,315'

¹⁰ Surface Location

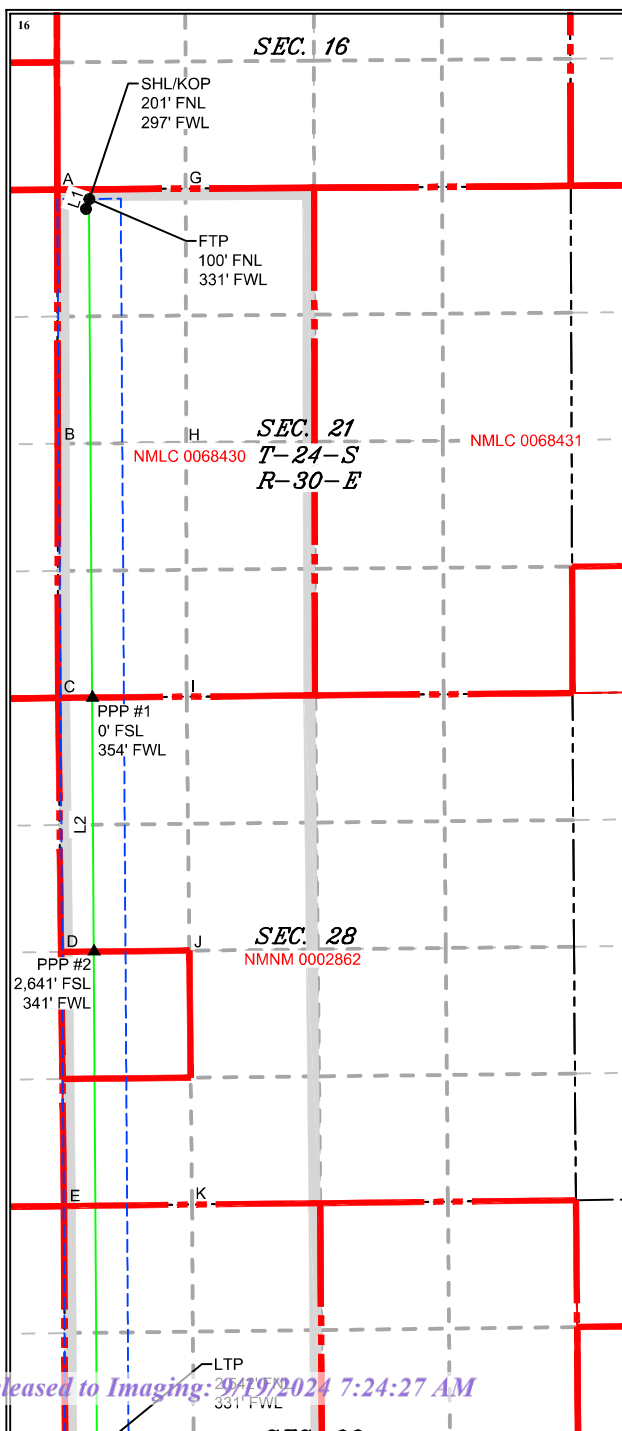
UL or lot no. D	Section 21	Township 24S	Range 30E	Lot Idn	Feet from the 201	North/South line NORTH	Feet from the 297	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. E	Section 33	Township 24S	Range 30E	Lot Idn	Feet from the 2,632	North/South line NORTH	Feet from the 331	East/West line WEST	County EDDY
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¹² Dedicated Acres 800.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



LEGEND

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

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	018°19'15"	106.25'
L2	179°38'23"	13,100.79'

COORDINATE TABLE

SHL/KOP (NAD 83 NME)	SHL/KOP (NAD 27 NME)
Y = 440,375.5 N	Y = 440,316.2 N
X = 677,238.9 E	X = 636,055.2 E
LAT. = 32.209905° N	LAT. = 32.209781° N
LONG. = 103.893923° W	LONG. = 103.893435° W
FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y = 440,476.3 N	Y = 440,417.0 N
X = 677,272.3 E	X = 636,088.6 E
LAT. = 32.210182° N	LAT. = 32.210058° N
LONG. = 103.893813° W	LONG. = 103.893326° W
PPP #1 (NAD 83 NME)	PPP #1 (NAD 27 NME)
Y = 435,291.2 N	Y = 435,232.1 N
X = 677,305.0 E	X = 636,121.1 E
LAT. = 32.195929° N	LAT. = 32.195804° N
LONG. = 103.893776° W	LONG. = 103.893290° W
PPP #2 (NAD 83 NME)	PPP #2 (NAD 27 NME)
Y = 432,648.9 N	Y = 432,588.8 N
X = 677,321.6 E	X = 636,137.6 E
LAT. = 32.188065° N	LAT. = 32.188541° N
LONG. = 103.893757° W	LONG. = 103.893271° W
LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 427,465.8 N	Y = 427,406.9 N
X = 677,354.2 E	X = 636,170.1 E
LAT. = 32.174418° N	LAT. = 32.174293° N
LONG. = 103.893720° W	LONG. = 103.893235° W
BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 427,375.8 N	Y = 427,316.9 N
X = 677,354.7 E	X = 636,170.5 E
LAT. = 32.174170° N	LAT. = 32.174045° N
LONG. = 103.893720° W	LONG. = 103.893235° W
CORNER COORDINATES (NAD 83 NME)	
A - Y = 440,574.0 N	A - X = 676,941.2 E
B - Y = 437,930.7 N	B - X = 676,946.1 E
C - Y = 435,287.9 N	C - X = 676,950.7 E
D - Y = 432,645.4 N	D - X = 676,980.5 E
E - Y = 430,004.1 N	E - X = 677,010.5 E
F - Y = 427,361.7 N	F - X = 677,023.8 E
G - Y = 440,583.3 N	G - X = 678,278.3 E
H - Y = 437,940.9 N	H - X = 678,283.6 E
I - Y = 435,300.4 N	I - X = 678,288.8 E
J - Y = 432,659.0 N	J - X = 678,316.8 E
K - Y = 430,019.0 N	K - X = 678,344.9 E
L - Y = 427,374.3 N	L - X = 678,361.6 E
CORNER COORDINATES (NAD 27 NME)	
A - Y = 440,514.7 N	A - X = 635,757.5 E
B - Y = 437,971.5 N	B - X = 635,762.2 E

¹⁷ OPERATOR CERTIFICATION

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.

Terra Sebastian 8/8/2024
Signature Date

Terra Sebastian
Printed Name

terra.b.sebastian@exxonmobil.com
E-mail Address

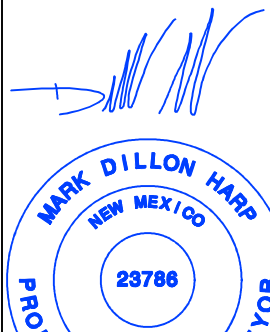
¹⁸ SURVEYOR CERTIFICATION

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.

7/11/2024

Date of Survey

Signature and Seal of
Professional Surveyor:



Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 101H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL D	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 331	From E/W WEST	County EDDY
Latitude 32.210182					Longitude -103.893813				NAD 83

Last Take Point (LTP)

UL E	Section 33	Township 24S	Range 30E	Lot	Feet 2,542	From N/S NORTH	Feet 331	From E/W WEST	County EDDY
Latitude 32.174418					Longitude -103.893720				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 101H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL D	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 331	From E/W WEST	County EDDY
Latitude 32.210182					Longitude -103.893813				NAD 83

Last Take Point (LTP)

UL E	Section 33	Township 24S	Range 30E	Lot	Feet 2,542	From N/S NORTH	Feet 331	From E/W WEST	County EDDY
Latitude 32.174418					Longitude -103.893720				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
POKER LAKE UNIT 21 DTD 101H
Projected TD: 22990' MD / 10194' TVD
SHL: 201' FNL & 297' FWL , Section 21, T24S, R30E
BHL: 2632' FNL & 331' FWL , Section 33, T23S, 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	877'	Water
Top of Salt	1280'	Water
Base of Salt	3473'	Water
Delaware	3667'	Water
Brushy Canyon	6213'	Water/Oil/Gas
Bone Spring	7537'	Water
Avalon	8230'	Water/Oil/Gas
1st Bone Spring	8246'	Water/Oil/Gas
2nd Bone Spring	8831'	Water/Oil/Gas
3rd Bone Spring	9657'	Water/Oil/Gas
Target/Land Curve	10194'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 977' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9280' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22990 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8980 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 977'	9.625	40	J-55	BTC	New	1.79	6.44	16.12
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.99	2.92	2.02
8.75	4000' – 9280'	7.625	29.7	HC L-80	Flush Joint	New	2.17	2.58	2.59
6.75	0' – 9180'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.28	2.15
6.75	9180' - 22990'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.05	2.15

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

· 7.625 Collapse analyzed using 50% evacuation based on regional experience.

· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Wellhead:

XTO will use a Multi-Bowl system which is attached.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 977'

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

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

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9280'

1st Stage

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

TOC: Surface

Tail: 280 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6213

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

2nd Stage

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

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

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6213') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22990'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8980 feet

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9480 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

5. Pressure Control Equipment

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

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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

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

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 977'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
977' - 3667'		Salt Saturated	10.5-11			Fully Saturated salt across salado / salt
3667' - 9280'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
9280' - 22990'	6.75	OBM	11.5-12	50-60	NC - 20	N/A

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

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

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5407 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 21 DTD South 101H

Measured Depth: 22989.51 ft
TVD RKB: 10194.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440316.20 ft
Easting: 636055.20 ft
RKB: 3347.00 ft
Ground Level: 3315.00 ft
North Reference: Grid
Convergence Angle: 0.23 Deg

Plan Sections Poker Lake Unit 21 DTD South 101H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg	
				RKB (ft)						Semi-minor	Tool
	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00		0.00	0.00	0.00	0.00	0.00	0.00
	1240.78	2.82	18.33	1240.72		3.28	1.09	2.00	0.00	2.00	2.00
	3261.78	2.82	18.33	3259.28		97.52	32.31	0.00	0.00	0.00	0.00
	3402.55	0.00	0.00	3400.00		100.80	33.40	-2.00	0.00	2.00	2.00
	9480.35	0.00	0.00	9477.80		100.80	33.40	0.00	0.00	0.00	0.00
	10605.35	90.00	179.64	10194.00		-615.38	37.89	8.00	0.00	8.00	8.00
	22899.51	90.00	179.64	10194.00		-12909.30	114.92	0.00	0.00	0.00	LTP 8
	22989.51	90.00	179.64	10194.00		-12999.30	115.48	0.00	0.00	0.00	BHL 8

Position Uncertainty Poker Lake Unit 21 DTD South 101H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.530	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.580	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.633	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	18.333	1199.980	5.190	0.000	4.341	0.000	2.689	0.000	0.000	5.302	4.206	127.773	MWD+IFR1+MS
1240.777	2.816	18.333	1240.721	5.350	0.000	4.483	0.000	2.712	0.000	0.000	5.463	4.351	127.397	MWD+IFR1+MS
1300.000	2.816	18.333	1299.872	5.540	0.000	4.688	0.000	2.748	0.000	0.000	5.650	4.561	127.279	MWD+IFR1+MS
1400.000	2.816	18.333	1399.751	5.862	0.000	5.054	0.000	2.810	0.000	0.000	5.975	4.926	127.847	MWD+IFR1+MS
1500.000	2.816	18.333	1499.630	6.200	0.000	5.431	0.000	2.875	0.000	0.000	6.322	5.294	128.865	MWD+IFR1+MS
1600.000	2.816	18.333	1599.510	6.539	0.000	5.805	0.000	2.943	0.000	0.000	6.670	5.659	129.796	MWD+IFR1+MS
1700.000	2.816	18.333	1699.389	6.881	0.000	6.178	0.000	3.013	0.000	0.000	7.020	6.024	130.649	MWD+IFR1+MS
1800.000	2.816	18.333	1799.268	7.225	0.000	6.548	0.000	3.086	0.000	0.000	7.371	6.388	131.431	MWD+IFR1+MS
1900.000	2.816	18.333	1899.148	7.570	0.000	6.918	0.000	3.160	0.000	0.000	7.723	6.750	132.149	MWD+IFR1+MS
2000.000	2.816	18.333	1999.027	7.916	0.000	7.287	0.000	3.236	0.000	0.000	8.076	7.112	132.809	MWD+IFR1+MS
2100.000	2.816	18.333	2098.906	8.264	0.000	7.654	0.000	3.314	0.000	0.000	8.429	7.474	133.417	MWD+IFR1+MS
2200.000	2.816	18.333	2198.785	8.612	0.000	8.021	0.000	3.394	0.000	0.000	8.784	7.835	133.977	MWD+IFR1+MS
2300.000	2.816	18.333	2298.665	8.962	0.000	8.387	0.000	3.475	0.000	0.000	9.139	8.195	134.494	MWD+IFR1+MS
2400.000	2.816	18.333	2398.544	9.312	0.000	8.752	0.000	3.558	0.000	0.000	9.494	8.556	134.973	MWD+IFR1+MS
2500.000	2.816	18.333	2498.423	9.663	0.000	9.117	0.000	3.642	0.000	0.000	9.850	8.916	-44.584	MWD+IFR1+MS
2600.000	2.816	18.333	2598.303	10.015	0.000	9.481	0.000	3.728	0.000	0.000	10.206	9.275	-44.172	MWD+IFR1+MS
2700.000	2.816	18.333	2698.182	10.368	0.000	9.845	0.000	3.815	0.000	0.000	10.562	9.635	-43.790	MWD+IFR1+MS
2800.000	2.816	18.333	2798.061	10.720	0.000	10.209	0.000	3.903	0.000	0.000	10.919	9.995	-43.434	MWD+IFR1+MS
2900.000	2.816	18.333	2897.940	11.074	0.000	10.572	0.000	3.993	0.000	0.000	11.276	10.354	-43.103	MWD+IFR1+MS

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3000.000	2.816	18.333	2997.820	11.427	0.000	10.935	0.000	4.084	0.000	0.000	11.633	10.714	-42.794	MWD+IFR1+MS
3100.000	2.816	18.333	3097.699	11.782	0.000	11.297	0.000	4.177	0.000	0.000	11.991	11.073	-42.506	MWD+IFR1+MS
3200.000	2.816	18.333	3197.578	12.136	0.000	11.660	0.000	4.271	0.000	0.000	12.348	11.432	-42.237	MWD+IFR1+MS
3261.776	2.816	18.333	3259.279	12.350	0.000	11.878	0.000	4.330	0.000	0.000	12.559	11.653	-42.257	MWD+IFR1+MS
3300.000	2.051	18.333	3297.469	12.484	0.000	12.011	0.000	4.366	0.000	0.000	12.688	11.789	-42.354	MWD+IFR1+MS
3402.553	0.000	0.000	3400.000	12.666	0.000	12.649	0.000	4.465	0.000	0.000	13.119	12.179	134.476	MWD+IFR1+MS
3500.000	0.000	0.000	3497.447	13.083	0.000	12.993	0.000	4.560	0.000	0.000	13.520	12.538	132.376	MWD+IFR1+MS
3600.000	0.000	0.000	3597.447	13.439	0.000	13.346	0.000	4.658	0.000	0.000	13.875	12.893	132.286	MWD+IFR1+MS
3700.000	0.000	0.000	3697.447	13.796	0.000	13.700	0.000	4.757	0.000	0.000	14.231	13.247	132.203	MWD+IFR1+MS
3800.000	0.000	0.000	3797.447	14.153	0.000	14.054	0.000	4.858	0.000	0.000	14.587	13.602	132.125	MWD+IFR1+MS
3900.000	0.000	0.000	3897.447	14.510	0.000	14.408	0.000	4.960	0.000	0.000	14.944	13.958	132.050	MWD+IFR1+MS
4000.000	0.000	0.000	3997.447	14.867	0.000	14.763	0.000	5.064	0.000	0.000	15.300	14.313	131.979	MWD+IFR1+MS
4100.000	0.000	0.000	4097.447	15.224	0.000	15.117	0.000	5.169	0.000	0.000	15.657	14.669	131.912	MWD+IFR1+MS
4200.000	0.000	0.000	4197.447	15.581	0.000	15.472	0.000	5.276	0.000	0.000	16.013	15.024	131.848	MWD+IFR1+MS
4300.000	0.000	0.000	4297.447	15.938	0.000	15.827	0.000	5.385	0.000	0.000	16.370	15.380	131.787	MWD+IFR1+MS
4400.000	0.000	0.000	4397.447	16.295	0.000	16.182	0.000	5.495	0.000	0.000	16.727	15.736	131.728	MWD+IFR1+MS
4500.000	0.000	0.000	4497.447	16.653	0.000	16.538	0.000	5.607	0.000	0.000	17.084	16.092	131.672	MWD+IFR1+MS
4600.000	0.000	0.000	4597.447	17.010	0.000	16.893	0.000	5.720	0.000	0.000	17.440	16.448	131.619	MWD+IFR1+MS
4700.000	0.000	0.000	4697.447	17.367	0.000	17.249	0.000	5.836	0.000	0.000	17.797	16.804	131.568	MWD+IFR1+MS
4800.000	0.000	0.000	4797.447	17.725	0.000	17.604	0.000	5.953	0.000	0.000	18.154	17.161	131.519	MWD+IFR1+MS
4900.000	0.000	0.000	4897.447	18.082	0.000	17.960	0.000	6.072	0.000	0.000	18.512	17.517	131.472	MWD+IFR1+MS
5000.000	0.000	0.000	4997.447	18.440	0.000	18.316	0.000	6.193	0.000	0.000	18.869	17.874	131.427	MWD+IFR1+MS
5100.000	0.000	0.000	5097.447	18.797	0.000	18.672	0.000	6.315	0.000	0.000	19.226	18.230	131.384	MWD+IFR1+MS
5200.000	0.000	0.000	5197.447	19.155	0.000	19.028	0.000	6.440	0.000	0.000	19.583	18.587	131.342	MWD+IFR1+MS
5300.000	0.000	0.000	5297.447	19.512	0.000	19.384	0.000	6.567	0.000	0.000	19.941	18.944	131.302	MWD+IFR1+MS
5400.000	0.000	0.000	5397.447	19.870	0.000	19.740	0.000	6.695	0.000	0.000	20.298	19.300	131.264	MWD+IFR1+MS
5500.000	0.000	0.000	5497.447	20.228	0.000	20.097	0.000	6.826	0.000	0.000	20.655	19.657	131.226	MWD+IFR1+MS
5600.000	0.000	0.000	5597.447	20.586	0.000	20.453	0.000	6.959	0.000	0.000	21.013	20.014	131.191	MWD+IFR1+MS
5700.000	0.000	0.000	5697.447	20.943	0.000	20.810	0.000	7.094	0.000	0.000	21.370	20.371	131.156	MWD+IFR1+MS
5800.000	0.000	0.000	5797.447	21.301	0.000	21.166	0.000	7.231	0.000	0.000	21.728	20.728	131.123	MWD+IFR1+MS
5900.000	0.000	0.000	5897.447	21.659	0.000	21.523	0.000	7.371	0.000	0.000	22.085	21.085	131.091	MWD+IFR1+MS
6000.000	0.000	0.000	5997.447	22.017	0.000	21.879	0.000	7.512	0.000	0.000	22.443	21.442	131.059	MWD+IFR1+MS
6100.000	0.000	0.000	6097.447	22.374	0.000	22.236	0.000	7.656	0.000	0.000	22.800	21.799	131.029	MWD+IFR1+MS

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6200.000	0.000	0.000	6197.447	22.732	0.000	22.593	0.000	7.802	0.000	0.000	23.158	22.156	131.000	MWD+IFR1+MS
6300.000	0.000	0.000	6297.447	23.090	0.000	22.950	0.000	7.950	0.000	0.000	23.516	22.514	130.972	MWD+IFR1+MS
6400.000	0.000	0.000	6397.447	23.448	0.000	23.307	0.000	8.101	0.000	0.000	23.873	22.871	130.945	MWD+IFR1+MS
6500.000	0.000	0.000	6497.447	23.806	0.000	23.664	0.000	8.254	0.000	0.000	24.231	23.228	130.918	MWD+IFR1+MS
6600.000	0.000	0.000	6597.447	24.164	0.000	24.021	0.000	8.410	0.000	0.000	24.589	23.586	130.893	MWD+IFR1+MS
6700.000	0.000	0.000	6697.447	24.522	0.000	24.378	0.000	8.568	0.000	0.000	24.946	23.943	130.868	MWD+IFR1+MS
6800.000	0.000	0.000	6797.447	24.880	0.000	24.735	0.000	8.728	0.000	0.000	25.304	24.300	130.844	MWD+IFR1+MS
6900.000	0.000	0.000	6897.447	25.238	0.000	25.092	0.000	8.891	0.000	0.000	25.662	24.658	130.820	MWD+IFR1+MS
7000.000	0.000	0.000	6997.447	25.596	0.000	25.449	0.000	9.057	0.000	0.000	26.020	25.015	130.797	MWD+IFR1+MS
7100.000	0.000	0.000	7097.447	25.954	0.000	25.806	0.000	9.225	0.000	0.000	26.377	25.373	130.775	MWD+IFR1+MS
7200.000	0.000	0.000	7197.447	26.312	0.000	26.163	0.000	9.395	0.000	0.000	26.735	25.730	130.754	MWD+IFR1+MS
7300.000	0.000	0.000	7297.447	26.670	0.000	26.521	0.000	9.568	0.000	0.000	27.093	26.088	130.733	MWD+IFR1+MS
7400.000	0.000	0.000	7397.447	27.028	0.000	26.878	0.000	9.744	0.000	0.000	27.451	26.445	130.712	MWD+IFR1+MS
7500.000	0.000	0.000	7497.447	27.386	0.000	27.235	0.000	9.922	0.000	0.000	27.809	26.803	130.693	MWD+IFR1+MS
7600.000	0.000	0.000	7597.447	27.744	0.000	27.592	0.000	10.103	0.000	0.000	28.167	27.161	130.673	MWD+IFR1+MS
7700.000	0.000	0.000	7697.447	28.102	0.000	27.950	0.000	10.287	0.000	0.000	28.525	27.518	130.654	MWD+IFR1+MS
7800.000	0.000	0.000	7797.447	28.460	0.000	28.307	0.000	10.473	0.000	0.000	28.883	27.876	130.636	MWD+IFR1+MS
7900.000	0.000	0.000	7897.447	28.818	0.000	28.665	0.000	10.662	0.000	0.000	29.241	28.234	130.618	MWD+IFR1+MS
8000.000	0.000	0.000	7997.447	29.176	0.000	29.022	0.000	10.854	0.000	0.000	29.599	28.591	130.601	MWD+IFR1+MS
8100.000	0.000	0.000	8097.447	29.534	0.000	29.380	0.000	11.049	0.000	0.000	29.957	28.949	130.584	MWD+IFR1+MS
8200.000	0.000	0.000	8197.447	29.892	0.000	29.737	0.000	11.246	0.000	0.000	30.314	29.307	130.567	MWD+IFR1+MS
8300.000	0.000	0.000	8297.447	30.250	0.000	30.095	0.000	11.446	0.000	0.000	30.672	29.664	130.551	MWD+IFR1+MS
8400.000	0.000	0.000	8397.447	30.609	0.000	30.452	0.000	11.649	0.000	0.000	31.030	30.022	130.536	MWD+IFR1+MS
8500.000	0.000	0.000	8497.447	30.967	0.000	30.810	0.000	11.854	0.000	0.000	31.388	30.380	130.520	MWD+IFR1+MS
8600.000	0.000	0.000	8597.447	31.325	0.000	31.167	0.000	12.063	0.000	0.000	31.747	30.738	130.505	MWD+IFR1+MS
8700.000	0.000	0.000	8697.447	31.683	0.000	31.525	0.000	12.274	0.000	0.000	32.105	31.096	130.490	MWD+IFR1+MS
8800.000	0.000	0.000	8797.447	32.041	0.000	31.883	0.000	12.488	0.000	0.000	32.463	31.453	130.476	MWD+IFR1+MS
8900.000	0.000	0.000	8897.447	32.399	0.000	32.240	0.000	12.705	0.000	0.000	32.821	31.811	130.462	MWD+IFR1+MS
9000.000	0.000	0.000	8997.447	32.758	0.000	32.598	0.000	12.925	0.000	0.000	33.179	32.169	130.448	MWD+IFR1+MS
9100.000	0.000	0.000	9097.447	33.116	0.000	32.956	0.000	13.147	0.000	0.000	33.537	32.527	130.435	MWD+IFR1+MS
9200.000	0.000	0.000	9197.447	33.474	0.000	33.313	0.000	13.373	0.000	0.000	33.895	32.885	130.422	MWD+IFR1+MS
9300.000	0.000	0.000	9297.447	33.832	0.000	33.671	0.000	13.601	0.000	0.000	34.253	33.243	130.409	MWD+IFR1+MS
9400.000	0.000	0.000	9397.447	34.190	0.000	34.029	0.000	13.833	0.000	0.000	34.611	33.601	130.396	MWD+IFR1+MS

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9480.353	0.000	0.000	9477.800	34.477	0.000	34.315	0.000	14.020	0.000	0.000	34.896	33.888	130.373	MWD+IFR1+MS
9500.000	1.572	179.641	9497.445	34.517	0.000	34.387	-0.000	14.067	0.000	0.000	34.961	33.955	130.354	MWD+IFR1+MS
9600.000	9.572	179.641	9596.891	34.841	0.000	34.700	-0.000	14.321	0.000	0.000	35.582	34.393	119.969	MWD+IFR1+MS
9700.000	17.572	179.641	9694.020	35.392	0.000	35.006	-0.000	14.704	0.000	0.000	36.886	34.821	106.791	MWD+IFR1+MS
9800.000	25.572	179.641	9786.940	35.391	0.000	35.296	-0.000	15.294	0.000	0.000	38.117	35.145	102.418	MWD+IFR1+MS
9900.000	33.572	179.641	9873.843	34.891	0.000	35.569	-0.000	16.142	0.000	0.000	39.185	35.428	100.506	MWD+IFR1+MS
10000.000	41.572	179.641	9953.038	33.966	0.000	35.821	-0.000	17.259	0.000	0.000	40.064	35.682	99.575	MWD+IFR1+MS
10100.000	49.572	179.641	10022.983	32.720	0.000	36.050	-0.000	18.624	0.000	0.000	40.749	35.910	99.144	MWD+IFR1+MS
10200.000	57.572	179.641	10082.316	31.284	0.000	36.257	-0.000	20.190	0.000	0.000	41.248	36.111	99.014	MWD+IFR1+MS
10300.000	65.572	179.641	10129.883	29.825	0.000	36.439	-0.000	21.896	0.000	0.000	41.579	36.286	99.079	MWD+IFR1+MS
10400.000	73.572	179.641	10164.758	28.540	0.000	36.595	-0.000	23.680	0.000	0.000	41.768	36.436	99.269	MWD+IFR1+MS
10500.000	81.572	179.641	10186.262	27.642	0.000	36.725	-0.000	25.479	0.000	0.000	41.854	36.559	99.516	MWD+IFR1+MS
10605.353	90.000	179.641	10193.997	27.511	0.000	36.833	-0.000	27.511	0.000	0.000	41.879	36.661	99.751	MWD+IFR1+MS
10700.000	90.000	179.641	10193.997	28.075	0.000	36.921	-0.000	28.075	0.000	0.000	41.888	36.746	99.924	MWD+IFR1+MS
10800.000	90.000	179.641	10193.997	28.237	0.000	37.030	-0.000	28.237	0.000	0.000	41.897	36.851	100.142	MWD+IFR1+MS
10900.000	90.000	179.641	10193.997	28.420	0.000	37.154	-0.000	28.420	0.000	0.000	41.908	36.971	100.398	MWD+IFR1+MS
11000.000	90.000	179.641	10193.997	28.623	0.000	37.294	-0.000	28.623	0.000	0.000	41.920	37.106	100.697	MWD+IFR1+MS
11100.000	90.000	179.641	10193.997	28.846	0.000	37.449	-0.000	28.846	0.000	0.000	41.933	37.255	101.044	MWD+IFR1+MS
11200.000	90.000	179.641	10193.997	29.089	0.000	37.618	-0.000	29.089	0.000	0.000	41.948	37.418	101.446	MWD+IFR1+MS
11300.000	90.000	179.641	10193.997	29.351	0.000	37.803	-0.000	29.351	0.000	0.000	41.964	37.595	101.911	MWD+IFR1+MS
11400.000	90.000	179.641	10193.997	29.631	0.000	38.002	-0.000	29.631	0.000	0.000	41.982	37.785	102.451	MWD+IFR1+MS
11500.000	90.000	179.641	10193.997	29.929	0.000	38.215	-0.000	29.929	0.000	0.000	42.003	37.988	103.079	MWD+IFR1+MS
11600.000	90.000	179.641	10193.997	30.245	0.000	38.443	-0.000	30.245	0.000	0.000	42.025	38.203	103.812	MWD+IFR1+MS
11700.000	90.000	179.641	10193.997	30.577	0.000	38.684	-0.000	30.577	0.000	0.000	42.050	38.430	104.672	MWD+IFR1+MS
11800.000	90.000	179.641	10193.997	30.926	0.000	38.939	-0.000	30.926	0.000	0.000	42.079	38.668	105.689	MWD+IFR1+MS
11900.000	90.000	179.641	10193.997	31.291	0.000	39.207	-0.000	31.291	0.000	0.000	42.112	38.915	106.898	MWD+IFR1+MS
12000.000	90.000	179.641	10193.997	31.670	0.000	39.488	-0.000	31.670	0.000	0.000	42.149	39.171	108.350	MWD+IFR1+MS
12100.000	90.000	179.641	10193.997	32.065	0.000	39.782	-0.000	32.065	0.000	0.000	42.193	39.434	110.107	MWD+IFR1+MS
12200.000	90.000	179.641	10193.997	32.474	0.000	40.088	-0.000	32.474	0.000	0.000	42.246	39.702	112.251	MWD+IFR1+MS
12300.000	90.000	179.641	10193.997	32.896	0.000	40.407	-0.000	32.896	0.000	0.000	42.309	39.972	114.882	MWD+IFR1+MS
12400.000	90.000	179.641	10193.997	33.332	0.000	40.737	-0.000	33.332	0.000	0.000	42.387	40.239	118.115	MWD+IFR1+MS
12500.000	90.000	179.641	10193.997	33.780	0.000	41.079	-0.000	33.780	0.000	0.000	42.485	40.499	122.056	MWD+IFR1+MS
12600.000	90.000	179.641	10193.997	34.240	0.000	41.433	-0.000	34.240	0.000	0.000	42.608	40.744	126.752	MWD+IFR1+MS

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12700.000	90.000	179.641	10193.997	34.712	0.000	41.797	-0.000	34.712	0.000	42.766	40.968	132.107	MWD+IFR1+MS
12800.000	90.000	179.641	10193.997	35.195	0.000	42.172	-0.000	35.195	0.000	42.962	41.164	-42.173	MWD+IFR1+MS
12900.000	90.000	179.641	10193.997	35.689	0.000	42.558	-0.000	35.689	0.000	43.200	41.329	-36.528	MWD+IFR1+MS
13000.000	90.000	179.641	10193.997	36.193	0.000	42.954	-0.000	36.193	0.000	43.479	41.464	-31.363	MWD+IFR1+MS
13100.000	90.000	179.641	10193.997	36.707	0.000	43.359	-0.000	36.707	0.000	43.794	41.574	-26.906	MWD+IFR1+MS
13200.000	90.000	179.641	10193.997	37.230	0.000	43.775	-0.000	37.230	0.000	44.139	41.664	-23.197	MWD+IFR1+MS
13300.000	90.000	179.641	10193.997	37.763	0.000	44.199	-0.000	37.763	0.000	44.509	41.739	-20.161	MWD+IFR1+MS
13400.000	90.000	179.641	10193.997	38.304	0.000	44.633	-0.000	38.304	0.000	44.899	41.802	-17.685	MWD+IFR1+MS
13500.000	90.000	179.641	10193.997	38.853	0.000	45.076	-0.000	38.853	0.000	45.308	41.857	-15.658	MWD+IFR1+MS
13600.000	90.000	179.641	10193.997	39.410	0.000	45.527	-0.000	39.410	0.000	45.731	41.907	-13.986	MWD+IFR1+MS
13700.000	90.000	179.641	10193.997	39.975	0.000	45.987	-0.000	39.975	0.000	46.168	41.952	-12.593	MWD+IFR1+MS
13800.000	90.000	179.641	10193.997	40.548	0.000	46.454	-0.000	40.548	0.000	46.616	41.993	-11.420	MWD+IFR1+MS
13900.000	90.000	179.641	10193.997	41.127	0.000	46.930	-0.000	41.127	0.000	47.076	42.032	-10.424	MWD+IFR1+MS
14000.000	90.000	179.641	10193.997	41.713	0.000	47.413	-0.000	41.713	0.000	47.545	42.070	-9.570	MWD+IFR1+MS
14100.000	90.000	179.641	10193.997	42.306	0.000	47.903	-0.000	42.306	0.000	48.024	42.106	-8.831	MWD+IFR1+MS
14200.000	90.000	179.641	10193.997	42.904	0.000	48.401	-0.000	42.904	0.000	48.511	42.141	-8.187	MWD+IFR1+MS
14300.000	90.000	179.641	10193.997	43.509	0.000	48.905	-0.000	43.509	0.000	49.007	42.175	-7.622	MWD+IFR1+MS
14400.000	90.000	179.641	10193.997	44.119	0.000	49.416	-0.000	44.119	0.000	49.510	42.208	-7.122	MWD+IFR1+MS
14500.000	90.000	179.641	10193.997	44.735	0.000	49.934	-0.000	44.735	0.000	50.021	42.242	-6.678	MWD+IFR1+MS
14600.000	90.000	179.641	10193.997	45.356	0.000	50.458	-0.000	45.356	0.000	50.539	42.275	-6.281	MWD+IFR1+MS
14700.000	90.000	179.641	10193.997	45.982	0.000	50.988	-0.000	45.982	0.000	51.063	42.308	-5.924	MWD+IFR1+MS
14800.000	90.000	179.641	10193.997	46.613	0.000	51.524	-0.000	46.613	0.000	51.595	42.341	-5.603	MWD+IFR1+MS
14900.000	90.000	179.641	10193.997	47.248	0.000	52.066	-0.000	47.248	0.000	52.132	42.374	-5.311	MWD+IFR1+MS
15000.000	90.000	179.641	10193.997	47.888	0.000	52.613	-0.000	47.888	0.000	52.675	42.407	-5.046	MWD+IFR1+MS
15100.000	90.000	179.641	10193.997	48.532	0.000	53.166	-0.000	48.532	0.000	53.224	42.440	-4.803	MWD+IFR1+MS
15200.000	90.000	179.641	10193.997	49.180	0.000	53.724	-0.000	49.180	0.000	53.779	42.474	-4.581	MWD+IFR1+MS
15300.000	90.000	179.641	10193.997	49.832	0.000	54.287	-0.000	49.832	0.000	54.339	42.507	-4.377	MWD+IFR1+MS
15400.000	90.000	179.641	10193.997	50.488	0.000	54.855	-0.000	50.488	0.000	54.904	42.541	-4.189	MWD+IFR1+MS
15500.000	90.000	179.641	10193.997	51.148	0.000	55.428	-0.000	51.148	0.000	55.474	42.576	-4.016	MWD+IFR1+MS
15600.000	90.000	179.641	10193.997	51.811	0.000	56.005	-0.000	51.811	0.000	56.049	42.610	-3.855	MWD+IFR1+MS
15700.000	90.000	179.641	10193.997	52.477	0.000	56.587	-0.000	52.477	0.000	56.628	42.645	-3.705	MWD+IFR1+MS
15800.000	90.000	179.641	10193.997	53.147	0.000	57.173	-0.000	53.147	0.000	57.212	42.680	-3.566	MWD+IFR1+MS
15900.000	90.000	179.641	10193.997	53.819	0.000	57.763	-0.000	53.819	0.000	57.801	42.716	-3.436	MWD+IFR1+MS

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16000.000	90.000	179.641	10193.997	54.495	0.000	58.357	-0.000	54.495	0.000	58.393	42.752	-3.315	MWD+IFR1+MS
16100.000	90.000	179.641	10193.997	55.173	0.000	58.956	-0.000	55.173	0.000	58.990	42.789	-3.202	MWD+IFR1+MS
16200.000	90.000	179.641	10193.997	55.855	0.000	59.558	-0.000	55.855	0.000	59.591	42.826	-3.095	MWD+IFR1+MS
16300.000	90.000	179.641	10193.997	56.539	0.000	60.164	-0.000	56.539	0.000	60.195	42.863	-2.995	MWD+IFR1+MS
16400.000	90.000	179.641	10193.997	57.225	0.000	60.773	-0.000	57.225	0.000	60.803	42.901	-2.901	MWD+IFR1+MS
16500.000	90.000	179.641	10193.997	57.915	0.000	61.386	-0.000	57.915	0.000	61.415	42.939	-2.813	MWD+IFR1+MS
16600.000	90.000	179.641	10193.997	58.606	0.000	62.003	-0.000	58.606	0.000	62.030	42.977	-2.729	MWD+IFR1+MS
16700.000	90.000	179.641	10193.997	59.300	0.000	62.622	-0.000	59.300	0.000	62.649	43.016	-2.650	MWD+IFR1+MS
16800.000	90.000	179.641	10193.997	59.996	0.000	63.245	-0.000	59.996	0.000	63.270	43.056	-2.575	MWD+IFR1+MS
16900.000	90.000	179.641	10193.997	60.694	0.000	63.871	-0.000	60.694	0.000	63.895	43.096	-2.505	MWD+IFR1+MS
17000.000	90.000	179.641	10193.997	61.395	0.000	64.500	-0.000	61.395	0.000	64.523	43.136	-2.438	MWD+IFR1+MS
17100.000	90.000	179.641	10193.997	62.097	0.000	65.132	-0.000	62.097	0.000	65.154	43.177	-2.374	MWD+IFR1+MS
17200.000	90.000	179.641	10193.997	62.801	0.000	65.767	-0.000	62.801	0.000	65.788	43.218	-2.313	MWD+IFR1+MS
17300.000	90.000	179.641	10193.997	63.508	0.000	66.404	-0.000	63.508	0.000	66.425	43.260	-2.256	MWD+IFR1+MS
17400.000	90.000	179.641	10193.997	64.216	0.000	67.044	-0.000	64.216	0.000	67.065	43.302	-2.201	MWD+IFR1+MS
17500.000	90.000	179.641	10193.997	64.925	0.000	67.687	-0.000	64.925	0.000	67.707	43.345	-2.149	MWD+IFR1+MS
17600.000	90.000	179.641	10193.997	65.637	0.000	68.332	-0.000	65.637	0.000	68.351	43.388	-2.099	MWD+IFR1+MS
17700.000	90.000	179.641	10193.997	66.350	0.000	68.980	-0.000	66.350	0.000	68.998	43.432	-2.051	MWD+IFR1+MS
17800.000	90.000	179.641	10193.997	67.065	0.000	69.630	-0.000	67.065	0.000	69.648	43.476	-2.006	MWD+IFR1+MS
17900.000	90.000	179.641	10193.997	67.781	0.000	70.283	-0.000	67.781	0.000	70.300	43.520	-1.962	MWD+IFR1+MS
18000.000	90.000	179.641	10193.997	68.499	0.000	70.938	-0.000	68.499	0.000	70.954	43.565	-1.920	MWD+IFR1+MS
18100.000	90.000	179.641	10193.997	69.218	0.000	71.595	-0.000	69.218	0.000	71.611	43.610	-1.880	MWD+IFR1+MS
18200.000	90.000	179.641	10193.997	69.939	0.000	72.254	-0.000	69.939	0.000	72.269	43.656	-1.842	MWD+IFR1+MS
18300.000	90.000	179.641	10193.997	70.661	0.000	72.915	-0.000	70.661	0.000	72.930	43.703	-1.806	MWD+IFR1+MS
18400.000	90.000	179.641	10193.997	71.384	0.000	73.578	-0.000	71.384	0.000	73.593	43.750	-1.770	MWD+IFR1+MS
18500.000	90.000	179.641	10193.997	72.109	0.000	74.243	-0.000	72.109	0.000	74.257	43.797	-1.737	MWD+IFR1+MS
18600.000	90.000	179.641	10193.997	72.835	0.000	74.910	-0.000	72.835	0.000	74.924	43.845	-1.704	MWD+IFR1+MS
18700.000	90.000	179.641	10193.997	73.562	0.000	75.579	-0.000	73.562	0.000	75.593	43.893	-1.673	MWD+IFR1+MS
18800.000	90.000	179.641	10193.997	74.290	0.000	76.250	-0.000	74.290	0.000	76.263	43.941	-1.643	MWD+IFR1+MS
18900.000	90.000	179.641	10193.997	75.020	0.000	76.923	-0.000	75.020	0.000	76.935	43.991	-1.614	MWD+IFR1+MS
19000.000	90.000	179.641	10193.997	75.750	0.000	77.597	-0.000	75.750	0.000	77.609	44.040	-1.586	MWD+IFR1+MS
19100.000	90.000	179.641	10193.997	76.482	0.000	78.273	-0.000	76.482	0.000	78.285	44.090	-1.559	MWD+IFR1+MS
19200.000	90.000	179.641	10193.997	77.214	0.000	78.951	-0.000	77.214	0.000	78.962	44.141	-1.533	MWD+IFR1+MS

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19300.000	90.000	179.641	10193.997	77.948	0.000	79.630	-0.000	77.948	0.000	0.000	79.641	44.192	-1.508	MWD+IFR1+MS
19400.000	90.000	179.641	10193.997	78.683	0.000	80.311	-0.000	78.683	0.000	0.000	80.321	44.243	-1.484	MWD+IFR1+MS
19500.000	90.000	179.641	10193.997	79.418	0.000	80.993	-0.000	79.418	0.000	0.000	81.003	44.295	-1.460	MWD+IFR1+MS
19600.000	90.000	179.641	10193.997	80.155	0.000	81.677	-0.000	80.155	0.000	0.000	81.687	44.347	-1.438	MWD+IFR1+MS
19700.000	90.000	179.641	10193.997	80.892	0.000	82.362	-0.000	80.892	0.000	0.000	82.372	44.400	-1.416	MWD+IFR1+MS
19800.000	90.000	179.641	10193.997	81.630	0.000	83.048	-0.000	81.630	0.000	0.000	83.058	44.453	-1.395	MWD+IFR1+MS
19900.000	90.000	179.641	10193.997	82.370	0.000	83.736	-0.000	82.370	0.000	0.000	83.746	44.507	-1.375	MWD+IFR1+MS
20000.000	90.000	179.641	10193.997	83.110	0.000	84.426	-0.000	83.110	0.000	0.000	84.435	44.561	-1.355	MWD+IFR1+MS
20100.000	90.000	179.641	10193.997	83.851	0.000	85.116	-0.000	83.851	0.000	0.000	85.125	44.616	-1.336	MWD+IFR1+MS
20200.000	90.000	179.641	10193.997	84.592	0.000	85.808	-0.000	84.592	0.000	0.000	85.817	44.671	-1.317	MWD+IFR1+MS
20300.000	90.000	179.641	10193.997	85.335	0.000	86.501	-0.000	85.335	0.000	0.000	86.510	44.726	-1.299	MWD+IFR1+MS
20400.000	90.000	179.641	10193.997	86.078	0.000	87.196	-0.000	86.078	0.000	0.000	87.204	44.782	-1.282	MWD+IFR1+MS
20500.000	90.000	179.641	10193.997	86.822	0.000	87.891	-0.000	86.822	0.000	0.000	87.899	44.839	-1.265	MWD+IFR1+MS
20600.000	90.000	179.641	10193.997	87.566	0.000	88.588	-0.000	87.566	0.000	0.000	88.596	44.896	-1.249	MWD+IFR1+MS
20700.000	90.000	179.641	10193.997	88.311	0.000	89.286	-0.000	88.311	0.000	0.000	89.293	44.953	-1.233	MWD+IFR1+MS
20800.000	90.000	179.641	10193.997	89.057	0.000	89.984	-0.000	89.057	0.000	0.000	89.992	45.011	-1.217	MWD+IFR1+MS
20900.000	90.000	179.641	10193.997	89.804	0.000	90.684	-0.000	89.804	0.000	0.000	90.692	45.069	-1.202	MWD+IFR1+MS
21000.000	90.000	179.641	10193.997	90.551	0.000	91.386	-0.000	90.551	0.000	0.000	91.393	45.127	-1.188	MWD+IFR1+MS
21100.000	90.000	179.641	10193.997	91.299	0.000	92.088	-0.000	91.299	0.000	0.000	92.095	45.186	-1.174	MWD+IFR1+MS
21200.000	90.000	179.641	10193.997	92.048	0.000	92.791	-0.000	92.048	0.000	0.000	92.798	45.246	-1.160	MWD+IFR1+MS
21300.000	90.000	179.641	10193.997	92.797	0.000	93.495	-0.000	92.797	0.000	0.000	93.501	45.306	-1.147	MWD+IFR1+MS
21400.000	90.000	179.641	10193.997	93.547	0.000	94.200	-0.000	93.547	0.000	0.000	94.206	45.366	-1.134	MWD+IFR1+MS
21500.000	90.000	179.641	10193.997	94.297	0.000	94.906	-0.000	94.297	0.000	0.000	94.912	45.427	-1.121	MWD+IFR1+MS
21600.000	90.000	179.641	10193.997	95.048	0.000	95.613	-0.000	95.048	0.000	0.000	95.619	45.488	-1.109	MWD+IFR1+MS
21700.000	90.000	179.641	10193.997	95.799	0.000	96.320	-0.000	95.799	0.000	0.000	96.327	45.550	-1.097	MWD+IFR1+MS
21800.000	90.000	179.641	10193.997	96.551	0.000	97.029	-0.000	96.551	0.000	0.000	97.035	45.612	-1.085	MWD+IFR1+MS
21900.000	90.000	179.641	10193.997	97.303	0.000	97.739	-0.000	97.303	0.000	0.000	97.744	45.674	-1.074	MWD+IFR1+MS
22000.000	90.000	179.641	10193.997	98.056	0.000	98.449	-0.000	98.056	0.000	0.000	98.455	45.737	-1.063	MWD+IFR1+MS
22100.000	90.000	179.641	10193.997	98.810	0.000	99.160	-0.000	98.810	0.000	0.000	99.166	45.800	-1.052	MWD+IFR1+MS
22200.000	90.000	179.641	10193.997	99.564	0.000	99.872	-0.000	99.564	0.000	0.000	99.878	45.864	-1.041	MWD+IFR1+MS
22300.000	90.000	179.641	10193.997	100.318	0.000	100.585	-0.000	100.318	0.000	0.000	100.590	45.928	-1.031	MWD+IFR1+MS
22400.000	90.000	179.641	10193.997	101.073	0.000	101.298	-0.000	101.073	0.000	0.000	101.304	45.993	-1.021	MWD+IFR1+MS
22500.000	90.000	179.641	10193.997	101.828	0.000	102.013	-0.000	101.828	0.000	0.000	102.018	46.058	-1.011	MWD+IFR1+MS

22600.000	90.000	179.641	10193.997	102.584	0.000	102.728	-0.000	102.584	0.000	0.000	102.733	46.123	-1.002	MWD+IFR1+MS
22700.000	90.000	179.641	10193.997	103.340	0.000	103.443	-0.000	103.340	0.000	0.000	103.448	46.189	-0.992	MWD+IFR1+MS
22800.000	90.000	179.641	10193.997	104.097	0.000	104.160	-0.000	104.097	0.000	0.000	104.165	46.255	-0.983	MWD+IFR1+MS
22899.510	90.000	179.641	10193.997	104.850	0.000	104.874	-0.000	104.850	0.000	0.000	104.878	46.322	-0.975	MWD+IFR1+MS
22989.511	90.000	179.641	10193.997	105.531	0.000	105.519	-0.000	105.531	0.000	0.000	105.524	46.382	-0.967	MWD+IFR1+MS

Poker Lake Unit 21 DTD South 101H

Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 8	10301.00	440417.00	636088.60	6847.00	RECTANGLE
SHL 7	10235.28	440283.35	636117.64	6736.00	RECTANGLE
LTP 8	22899.53	427406.90	636170.10	6847.00	RECTANGLE
BHL 8	22989.69	427316.90	636170.50	6847.00	RECTANGLE



U. S. Steel Tubular Products

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



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

UNCONTROLLED

Notes

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


Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.



U. S. Steel Tubular Products

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

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

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Notes

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

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www.usstubular.com

**BLACK GOLD®**

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Houston, TX. 77086

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

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

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

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

SIGNATURE:*F. Cismos***TITLE:****QUALITY ASSURANCE****DATE:**

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

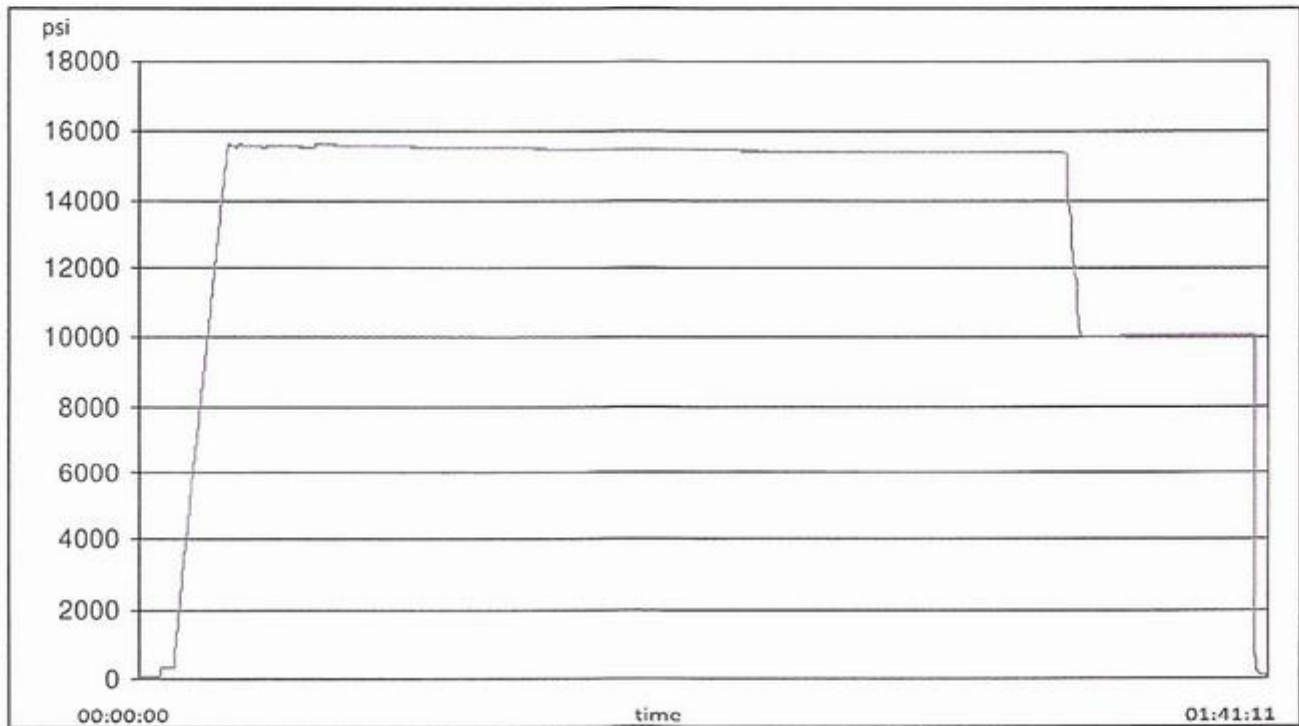
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

1/25/2024 11:48:06 AM

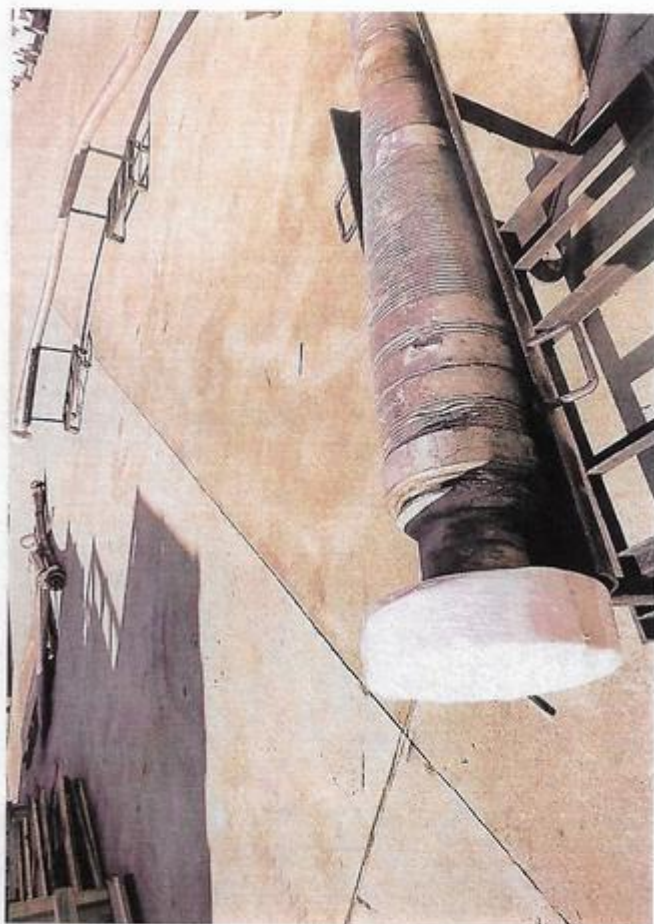
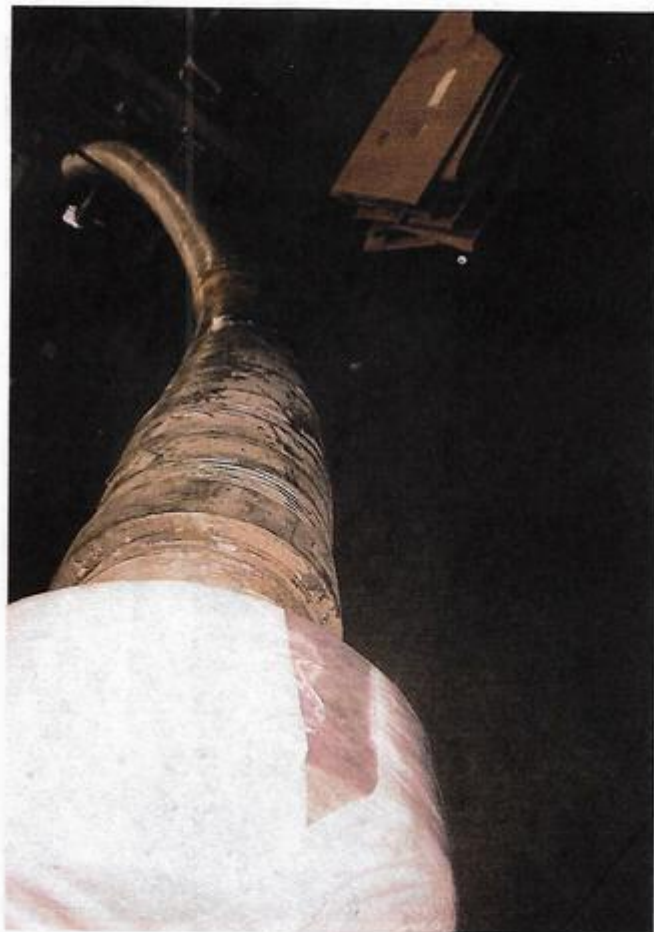
TEST REPORT

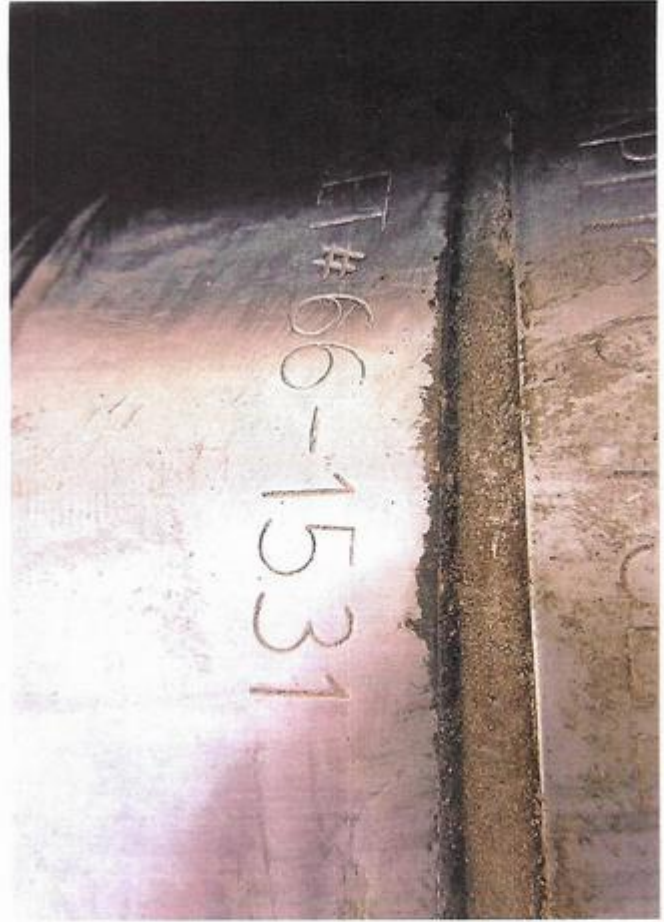
GAUGE TRACEABILITY

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

Comment

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

Description of Operations:

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

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1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 380898

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 380898
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, pilot hole will be properly plugged to ensure zonal isolation. Also, if cement is not circulated to surface during cementing operations (casing), then a CBL is required.	9/19/2024