Well Number: 154H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC0068431

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001553254

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2784390

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/10/2024

Time Sundry Submitted: 02:45

Date proposed operation will begin: 04/30/2024

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: 1557' FNL & 1455' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1456' FEL OF SECTION 21-T24S-R30E FTP: 383' FNL & 2396' FWL OF SECTION 21-T24S-R30E 100' FNL & 2211' FEL OF SECTION 21-T24S-R30E LTP: 330' FNL & 2391' FWL OF SECTION 33-T23S-R30E 2539' FNL & 2207' FEL OF SECTION 33-T24S-R30E BHL: 200' FNL & 2391' FWL OF SECTION 33-T23S-R30E 2629' FNL & 2208' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33784' MD; 11986' TVD (Wolfcamp) to 22424' MD; 9324' TVD (Bone Spring 2 Sand). A saturated salt brine will be utilized while drilling through the salt formations. Previous Approved pool: 98220 / PURPLE SAGE;WOLFCAMP Proposed Pool: 97798 / WILDCAT G-06 S243026M;BONE SPRING See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments

Procedure Description

PLU_21_DTD_154H_Sundry_Attachments_20240905123521.pdf

CONFIDENTIAL

US Well Number: 3001553254 **Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Poker_Lake_Unit_21_DTD_154H_COA_20240921112824.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 12:35 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:** 10/02/2024

Signature: Chris Walls

CONFIDENTIAL

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. NMLC068431

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
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No. POKER LAKE UNIT 21 DTD/154H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001553254

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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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: 1557' FNL & 1455' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1456' FEL OF SECTION 21-T24S-R30E
FTP: 383' FNL & 2396' FWL OF SECTION 21-T24S-R30E 100' FNL & 2211' FEL OF SECTION 21-T24S-R30E
LTP: 330' FNL & 2391' FWL OF SECTION 33-T23S-R30E 2539' FNL & 2207' FEL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 2391' FWL OF SECTION 33-T23S-R30E 2629' FNL & 2208' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 33784 MD; 11986 TVD (Wolfcamp) to 22424 MD; 9324 TVD (Bone Spring 2 Sand).

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

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 OFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 10/02/2024

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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

Previous Approved pool: 98220 / PURPLE SAGE;WOLFCAMP Proposed Pool: 97798 / WILDCAT G-06 S243026M;BONE SPRING

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: SWNE / 1557 FNL / 1455 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.206206 / LONG: -103.882294 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 383 FNL / 2396 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.20942 / LONG: -103.887137 (TVD: 11986 feet, MD: 12500 feet)

BHL: NENW / 200 FNL / 2391 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268079 / LONG: -103.887148 (TVD: 11986 feet, MD: 33784 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC068431**
LOCATION:	Sec. 21, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 21 DTD 154H
SURFACE HOLE FOOTAGE:	1367'/N & 1456'/E
BOTTOM HOLE FOOTAGE:	2629'/N & 2208'/E

*Changes approved through engineering via **Sundry 27843920**_ on 9-21-2024_. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	◉ No		○ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
	Choose an option (including blank option.)			
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☑ Casing Clearance ☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☑ Break Testing

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 **13-3/8** inch surface casing shall be set at approximately **1104** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be

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

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

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6340.'**

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.

- In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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

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

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (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 9/21/2024
575-234-5998 / zstevens@blm.gov

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

XTO Energy Inc.
POKER LAKE UNIT 21 DTD 154H
Projected TD: 22714' MD / 9725' TVD
SHL: 1367' FNL & 1456' FEL , Section 21, T24S, R30E
BHL: 2629' FNL & 2208' FEL , 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	1004'	Water
Top of Salt	1407'	Water
Base of Salt	3600'	Water
Delaware	3794'	Water
Brushy Canyon	6340'	Water/Oil/Gas
Bone Spring	7664'	Water
Avalon	8357'	Water/Oil/Gas
1st Bone Spring	8373'	Water/Oil/Gas
2nd Bone Spring	8958'	Water/Oil/Gas
Target/Land Curve	9725'	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 @ 1104' (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 9019' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22714 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8719 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1104'	9.625	40	J-55	BTC	New	1.84	5.70	14.27
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.98	2.92	2.08
8.75	4000' – 9019'	7.625	29.7	HC L-80	Flush Joint	New	2.17	2.65	2.72
6.75	0' – 8919'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.28	2.18
6.75	8919' - 22714'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.09	7.40

· 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
· Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 11” 10M top flange x 9-5/8” bottom

B. Tubing Head: 11” 10M bottom flange x 7-1/16” 15M top flange

- Wellhead will be installed by manufacturer’s representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1104'

Lead: 260 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 +/- 9019'
1st Stage
Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 240 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6340
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: 710 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 (6340') 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 +/- 22714'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8719 feet
Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9219 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 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 3170 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling 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. Based on discussions with the BLM on February 27th 2020, 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)
0' - 1104'	12.25	FW/Native	8.4-8.9	35-40	NC
1104' - 9019'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9019' - 22714'	6.75	OBM	10.5-11	50-60	NC - 20

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 9-5/8" surface casing with brine solution. Cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

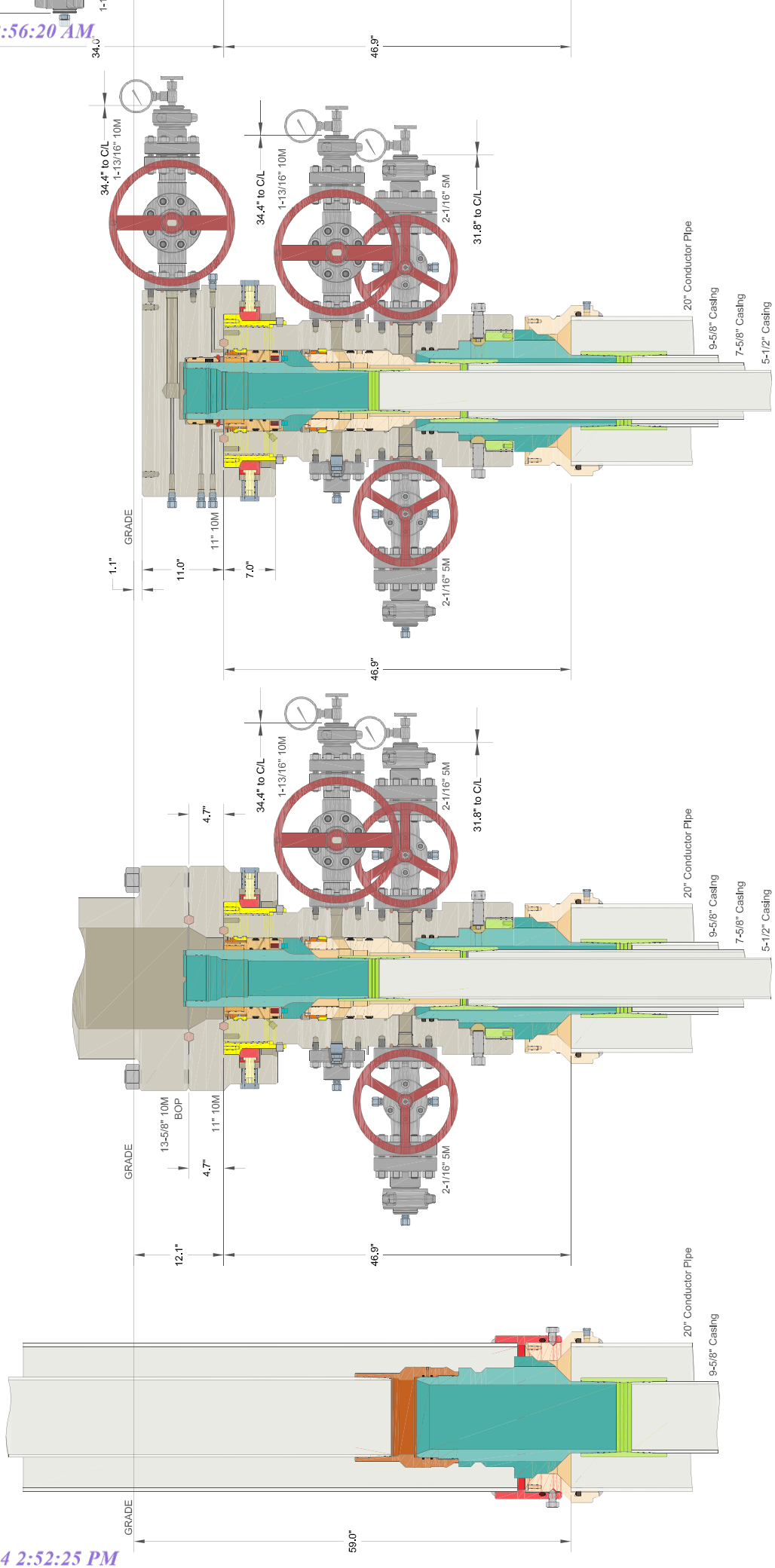
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5310 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.


34.0"
46.9"
34.4" to C/L
1-13/16" 10M
31.8" to C/L
2-1/16" 5M
20" Conductor Pipe
9-5/8" Casing
7-5/8" Casing
5-1/2" Casing
GRADE
1.1"
11.0"
11" 10M
7.0"
4.7"
13-5/8" 10M
BOP
12.1"
59.0"

U. S. Steel Tubular Products

11/8/2023 1:08:50 PM

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.

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

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

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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]

UNCONTROLLED

Notes

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

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

1-877-893-9461
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WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015- 53254	97798	WILDCAT G-06 S243026M;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
333571	POKER LAKE UNIT 21 DTD	154H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,377'

[10] Surface Location

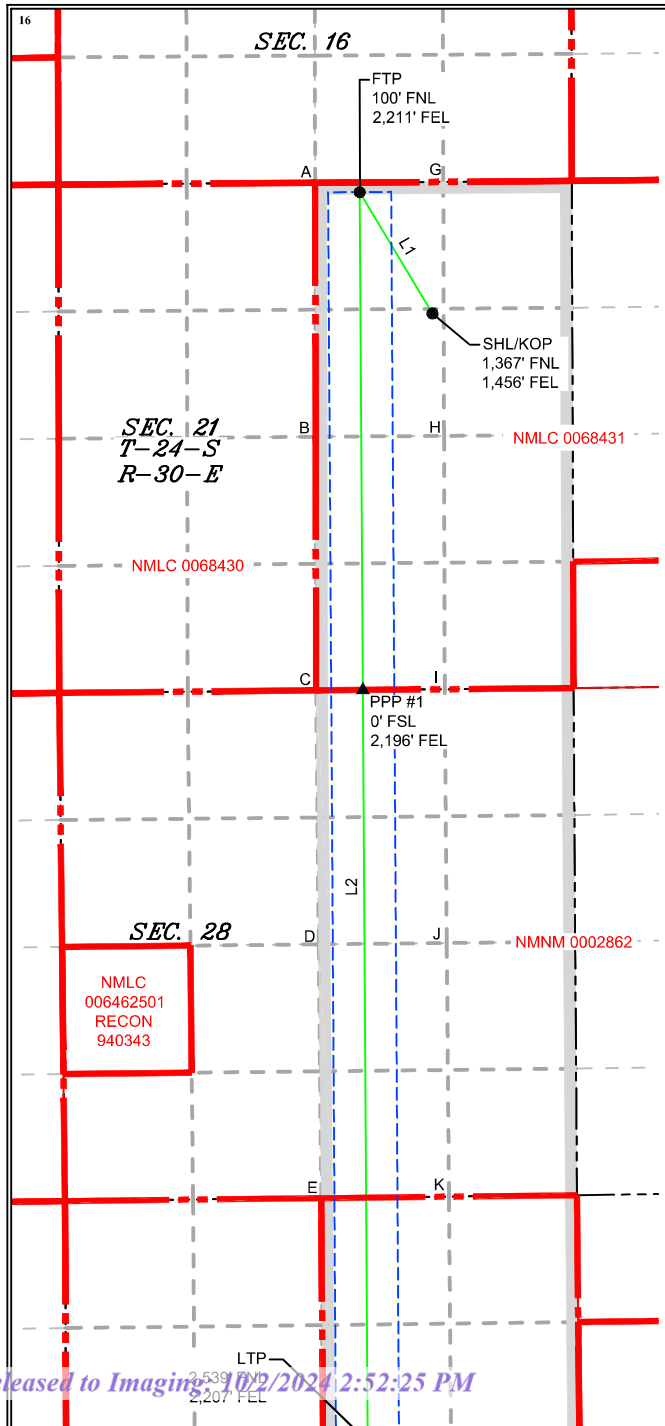
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	24S	30E		1,367	NORTH	1,456	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	33	24S	30E		2,629	NORTH	2,208	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
800.00			

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	328°56'42"	1,472.26'
L2	179°38'24"	13,085.93'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			SHL/KOP (NAD 27 NME)		
Y =	439,234.6	N	Y =	439,175.4	N
X =	680,839.8	E	X =	639,656.0	E
LAT. =	32.206728	°N	LAT. =	32.206604	°N
LONG. =	103.882296	°W	LONG. =	103.881809	°W
FTP (NAD 83 NME)			FTP (NAD 27 NME)		
Y =	440,495.9	N	Y =	440,436.6	N
X =	680,080.3	E	X =	638,896.6	E
LAT. =	32.210204	°N	LAT. =	32.210080	°N
LONG. =	103.884734	°W	LONG. =	103.884247	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	435,317.3	N	Y =	435,258.2	N
X =	680,112.9	E	X =	638,929.0	E
LAT. =	32.195969	°N	LAT. =	32.195844	°N
LONG. =	103.884699	°W	LONG. =	103.884212	°W
LTP (NAD 83 NME)			LTP (NAD 27 NME)		
Y =	427,500.2	N	Y =	427,441.3	N
X =	680,162.1	E	X =	638,977.9	E
LAT. =	32.174480	°N	LAT. =	32.174356	°N
LONG. =	103.884645	°W	LONG. =	103.884160	°W
BHL (NAD 83 NME)			BHL (NAD 27 NME)		
Y =	427,410.2	N	Y =	427,351.3	N
X =	680,162.6	E	X =	638,978.4	E
LAT. =	32.174233	°N	LAT. =	32.174108	°N
LONG. =	103.884645	°W	LONG. =	103.884159	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,592.6	N	A - X =	679,615.4	E
B - Y =	437,951.0	N	B - X =	679,621.2	E
C - Y =	435,312.8	N	C - X =	679,626.9	E
D - Y =	432,672.7	N	D - X =	679,653.1	E
E - Y =	430,034.0	N	E - X =	679,679.3	E
F - Y =	427,394.5	N	F - X =	679,699.4	E
G - Y =	440,602.1	N	G - X =	680,953.0	E
H - Y =	437,961.2	N	H - X =	680,960.4	E
I - Y =	435,325.2	N	I - X =	680,967.9	E
J - Y =	432,686.4	N	J - X =	680,989.1	E
K - Y =	430,048.8	N	K - X =	681,012.1	E
L - Y =	427,410.9	N	L - X =	681,034.8	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,533.3	N	A - X =	638,431.7	E
B - Y =	437,891.8	N	B - X =	638,437.3	E
C - Y =	435,253.7	N	C - X =	638,443.0	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.

Emily Rivera 7/15/2024
Signature Date

Emily Rivera
Printed Name

emily.a.rivera@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:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

Released to Imaging: 10/2/2024 2:52:25 PM

M\003 Poker Lake Unit\.07 - PLU 21 DTD - EDDY\Wells\-02- 154H\DWG\154H C-102.dwg

Intent [X] As Drilled [ ]

API #
30-15-

Operator Name:	Property Name:	Well Number
XTO PERMAIN OPERATING, LLC.	POKER LAKE UNIT 21 DTD	154H

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	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	21	24S	30E		100	NORTH	2,211	EAST	EDDY

Latitude	Longitude	NAD
32.210204	-103.884734	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
G	33	24S	30E		2,539	NORTH	2,207	EAST	EDDY

Latitude	Longitude	NAD
32.174480	-103.884645	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 154H
Projected TD: 22714' MD / 9725' TVD
SHL: 1367' FNL & 1456' FEL , Section 21, T24S, R30E
BHL: 2629' FNL & 2208' FEL , 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	1004'	Water
Top of Salt	1407'	Water
Base of Salt	3600'	Water
Delaware	3794'	Water
Brushy Canyon	6340'	Water/Oil/Gas
Bone Spring	7664'	Water
Avalon	8357'	Water/Oil/Gas
1st Bone Spring	8373'	Water/Oil/Gas
2nd Bone Spring	8958'	Water/Oil/Gas
Target/Land Curve	9725'	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 13.375 inch casing @ 1382' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3700' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 8809' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22714 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 8509 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1382'	13.375	54.5	J-55	BTC	New	3.12	1.87	12.07
12.25	0' – 3700'	9.625	40	J-55	BTC	New	1.89	3.07	4.26
8.75	0' – 3800'	7.625	29.7	RY P-110	Flush Joint	New	2.98	3.08	2.13
8.75	3800' – 8809'	7.625	29.7	HC L-80	Flush Joint	New	2.17	3.86	2.73
6.75	0' – 8709'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.33	2.18
6.75	8709' - 22714'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.09	5.37

· Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1
· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry

· 9.625 Collapse analyzed using 50% evacuation based on regional experience.
· 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 Multibowl system which is attached.

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 1382'

Optional Lead: 1130 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.33 ft3/sx, 10.13 gal/sx water)
Tail: 310 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3700'

Lead: 770 sxs Class C (mixed at 14.8 ppg, 2.06 ft3/sx, 10.13 gal/sx water)
Tail: 60 sxs Class C + 2% CaCl (mixed at 15.6 ppg, 2.06 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 +/- 8809'
1st Stage
Optional Lead: 140 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: 3400
Tail: 260 sxs Class C (mixed at 14.8 ppg, 1.27 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6340
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage - bradenhead contingency
Tail: 140 sxs Class C (mixed at 14.8 ppg, 2.77 ft3/sx, 6.39 gal/sx water)
Top of Cement: 3400
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 (6340') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. 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 wellhead provider 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 +/- 22714'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8509 feet
Tail: 850 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9219 feet
Compressives: 12-hr = 1375 psi 24 hr = 2285 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

All BOP testing will be done by an independent service company. Annular pressure tests will be conducted to at least 50% of the rated working pressure. When nippling up on the 13.375, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling 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)
0' - 1382'	17.5	FW/Native	8.4-8.9	35-40	NC
1382' - 3700'	12.25	Saturated brine for salt interval / Direct Emulsion	10 - 10.5	30-32	NC
3700' to 8809'	8.75	BDE/OBM or Brine	9- 9.5	30-32	NC
8809' to 22714'	6.75	OBM	10.5-11	50-60	NC - 20

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 13.375 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 5310 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.

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Well Plan Report - Poker Lake Unit 21 DTD South 154H

Measured Depth:	22713.77 ft
TVD RKB:	9725.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439175.40 ft
Easting:	639656.00 ft
RKB:	3409.00 ft
Ground Level:	3377.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 154H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (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	
1964.64	17.29	328.95	1951.57	110.93	-66.80	2.00	0.00	2.00	
6045.98	17.29	328.95	5848.43	1150.27	-692.60	0.00	0.00	0.00	
6910.62	0.00	0.00	6700.00	1261.20	-759.40	-2.00	0.00	2.00	
9219.42	0.00	0.00	9008.80	1261.20	-759.40	0.00	0.00	0.00	
10344.42	90.00	179.64	9725.00	545.02	-754.93	8.00	0.00	8.00	
22623.91	90.00	179.64	9725.00	-11734.24	-678.20	0.00	0.00	0.00	LTP 17
22713.77	90.00	179.64	9725.00	-11824.10	-677.64	0.00	0.00	0.00	BHL 17

Position Uncertainty Poker Lake Unit 21 DTD South 154H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	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	2.310	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	2.407	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	2.444	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	2.486	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	2.532	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	2.581	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	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	328.947	1199.980	4.498	0.000	5.002	0.000	2.691	0.000	0.000	5.181	4.293	121.210	MWD+IFR1+MS
1300.000	4.000	328.947	1299.838	5.363	0.000	5.336	0.000	2.751	0.000	0.000	5.796	4.871	102.872	MWD+IFR1+MS
1400.000	6.000	328.947	1399.452	6.121	0.000	5.672	0.000	2.817	0.000	0.000	6.471	5.288	92.320	MWD+IFR1+MS
1500.000	8.000	328.947	1498.702	6.806	0.000	6.010	0.000	2.890	0.000	0.000	7.134	5.652	86.966	MWD+IFR1+MS
1600.000	10.000	328.947	1597.465	7.438	0.000	6.351	0.000	2.973	0.000	0.000	7.766	5.999	83.965	MWD+IFR1+MS
1700.000	12.000	328.947	1695.623	8.028	0.000	6.695	0.000	3.067	0.000	0.000	8.368	6.341	82.111	MWD+IFR1+MS
1800.000	14.000	328.947	1793.055	8.583	0.000	7.041	0.000	3.175	0.000	0.000	8.943	6.682	80.885	MWD+IFR1+MS
1900.000	16.000	328.947	1889.643	9.109	0.000	7.392	0.000	3.299	0.000	0.000	9.495	7.025	80.042	MWD+IFR1+MS
1964.636	17.293	328.947	1951.569	9.331	0.000	7.611	0.000	3.360	0.000	0.000	9.743	7.247	79.881	MWD+IFR1+MS
2000.000	17.293	328.947	1985.334	9.432	0.000	7.729	0.000	3.388	0.000	0.000	9.841	7.368	79.917	MWD+IFR1+MS
2100.000	17.293	328.947	2080.814	9.721	0.000	8.077	0.000	3.481	0.000	0.000	10.121	7.719	80.243	MWD+IFR1+MS
2200.000	17.293	328.947	2176.294	10.028	0.000	8.442	0.000	3.582	0.000	0.000	10.423	8.079	80.762	MWD+IFR1+MS
2300.000	17.293	328.947	2271.774	10.343	0.000	8.810	0.000	3.686	0.000	0.000	10.733	8.442	81.277	MWD+IFR1+MS
2400.000	17.293	328.947	2367.254	10.665	0.000	9.181	0.000	3.795	0.000	0.000	11.048	8.808	81.787	MWD+IFR1+MS
2500.000	17.293	328.947	2462.733	10.993	0.000	9.554	0.000	3.908	0.000	0.000	11.369	9.177	82.294	MWD+IFR1+MS
2600.000	17.293	328.947	2558.213	11.327	0.000	9.930	0.000	4.023	0.000	0.000	11.696	9.547	82.795	MWD+IFR1+MS
2700.000	17.293	328.947	2653.693	11.667	0.000	10.309	0.000	4.142	0.000	0.000	12.027	9.920	83.292	MWD+IFR1+MS
2800.000	17.293	328.947	2749.173	12.011	0.000	10.689	0.000	4.264	0.000	0.000	12.363	10.295	83.784	MWD+IFR1+MS
2900.000	17.293	328.947	2844.653	12.359	0.000	11.071	0.000	4.388	0.000	0.000	12.703	10.671	84.271	MWD+IFR1+MS

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3000.000	17.293	328.947	2940.133	12.712	0.000	11.454	0.000	4.515	0.000	0.000	13.047	11.049	84.753	MWD+IFR1+MS
3100.000	17.293	328.947	3035.613	13.068	0.000	11.839	0.000	4.645	0.000	0.000	13.394	11.428	85.230	MWD+IFR1+MS
3200.000	17.293	328.947	3131.092	13.428	0.000	12.225	0.000	4.776	0.000	0.000	13.744	11.808	85.701	MWD+IFR1+MS
3300.000	17.293	328.947	3226.572	13.791	0.000	12.612	0.000	4.910	0.000	0.000	14.098	12.189	86.166	MWD+IFR1+MS
3400.000	17.293	328.947	3322.052	14.156	0.000	13.000	0.000	5.046	0.000	0.000	14.454	12.571	86.626	MWD+IFR1+MS
3500.000	17.293	328.947	3417.532	14.525	0.000	13.390	0.000	5.184	0.000	0.000	14.813	12.954	87.080	MWD+IFR1+MS
3600.000	17.293	328.947	3513.012	14.896	0.000	13.780	0.000	5.324	0.000	0.000	15.174	13.338	87.528	MWD+IFR1+MS
3700.000	17.293	328.947	3608.492	15.269	0.000	14.171	0.000	5.466	0.000	0.000	15.538	13.722	87.970	MWD+IFR1+MS
3800.000	17.293	328.947	3703.972	15.644	0.000	14.562	0.000	5.609	0.000	0.000	15.903	14.108	88.406	MWD+IFR1+MS
3900.000	17.293	328.947	3799.451	16.022	0.000	14.955	0.000	5.754	0.000	0.000	16.271	14.494	88.836	MWD+IFR1+MS
4000.000	17.293	328.947	3894.931	16.401	0.000	15.347	0.000	5.901	0.000	0.000	16.640	14.880	89.260	MWD+IFR1+MS
4100.000	17.293	328.947	3990.411	16.782	0.000	15.741	0.000	6.049	0.000	0.000	17.011	15.267	89.678	MWD+IFR1+MS
4200.000	17.293	328.947	4085.891	17.165	0.000	16.135	0.000	6.199	0.000	0.000	17.384	15.654	90.089	MWD+IFR1+MS
4300.000	17.293	328.947	4181.371	17.549	0.000	16.530	0.000	6.351	0.000	0.000	17.758	16.042	90.494	MWD+IFR1+MS
4400.000	17.293	328.947	4276.851	17.935	0.000	16.925	0.000	6.504	0.000	0.000	18.133	16.430	90.893	MWD+IFR1+MS
4500.000	17.293	328.947	4372.331	18.322	0.000	17.320	0.000	6.658	0.000	0.000	18.510	16.819	91.285	MWD+IFR1+MS
4600.000	17.293	328.947	4467.810	18.710	0.000	17.716	0.000	6.814	0.000	0.000	18.888	17.208	91.671	MWD+IFR1+MS
4700.000	17.293	328.947	4563.290	19.099	0.000	18.112	0.000	6.972	0.000	0.000	19.268	17.598	92.050	MWD+IFR1+MS
4800.000	17.293	328.947	4658.770	19.489	0.000	18.509	0.000	7.131	0.000	0.000	19.648	17.987	92.424	MWD+IFR1+MS
4900.000	17.293	328.947	4754.250	19.881	0.000	18.905	0.000	7.292	0.000	0.000	20.030	18.377	92.790	MWD+IFR1+MS
5000.000	17.293	328.947	4849.730	20.273	0.000	19.303	0.000	7.454	0.000	0.000	20.412	18.768	93.151	MWD+IFR1+MS
5100.000	17.293	328.947	4945.210	20.667	0.000	19.700	0.000	7.618	0.000	0.000	20.796	19.158	93.505	MWD+IFR1+MS
5200.000	17.293	328.947	5040.690	21.061	0.000	20.098	0.000	7.783	0.000	0.000	21.180	19.549	93.852	MWD+IFR1+MS
5300.000	17.293	328.947	5136.169	21.456	0.000	20.496	0.000	7.950	0.000	0.000	21.565	19.941	94.194	MWD+IFR1+MS
5400.000	17.293	328.947	5231.649	21.852	0.000	20.894	0.000	8.118	0.000	0.000	21.951	20.332	94.529	MWD+IFR1+MS
5500.000	17.293	328.947	5327.129	22.248	0.000	21.293	0.000	8.288	0.000	0.000	22.338	20.724	94.857	MWD+IFR1+MS
5600.000	17.293	328.947	5422.609	22.645	0.000	21.691	0.000	8.459	0.000	0.000	22.725	21.115	95.180	MWD+IFR1+MS
5700.000	17.293	328.947	5518.089	23.043	0.000	22.090	0.000	8.632	0.000	0.000	23.113	21.507	95.496	MWD+IFR1+MS
5800.000	17.293	328.947	5613.569	23.442	0.000	22.489	0.000	8.806	0.000	0.000	23.502	21.900	95.806	MWD+IFR1+MS
5900.000	17.293	328.947	5709.049	23.841	0.000	22.889	0.000	8.982	0.000	0.000	23.891	22.292	96.110	MWD+IFR1+MS
6000.000	17.293	328.947	5804.528	24.241	0.000	23.288	0.000	9.159	0.000	0.000	24.281	22.685	96.408	MWD+IFR1+MS
6045.981	17.293	328.947	5848.431	24.422	0.000	23.469	0.000	9.241	0.000	0.000	24.456	22.865	96.513	MWD+IFR1+MS
6100.000	16.212	328.947	5900.156	24.661	0.000	23.680	0.000	9.338	0.000	0.000	24.662	23.076	96.591	MWD+IFR1+MS

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6200.000	14.212	328.947	5996.648	25.135	0.000	24.068	0.000	9.523	0.000	0.000	25.087	23.471	95.927	MWD+IFR1+MS
6300.000	12.212	328.947	6093.996	25.612	0.000	24.452	0.000	9.705	0.000	0.000	25.544	23.865	94.726	MWD+IFR1+MS
6400.000	10.212	328.947	6192.082	26.049	0.000	24.826	0.000	9.875	0.000	0.000	25.993	24.249	93.594	MWD+IFR1+MS
6500.000	8.212	328.947	6290.787	26.445	0.000	25.192	0.000	10.034	0.000	0.000	26.434	24.623	92.537	MWD+IFR1+MS
6600.000	6.212	328.947	6389.991	26.799	0.000	25.548	0.000	10.184	0.000	0.000	26.867	24.988	91.561	MWD+IFR1+MS
6700.000	4.212	328.947	6489.572	27.111	0.000	25.895	0.000	10.327	0.000	0.000	27.289	25.342	90.668	MWD+IFR1+MS
6800.000	2.212	328.947	6589.410	27.382	0.000	26.233	0.000	10.463	0.000	0.000	27.701	25.686	89.856	MWD+IFR1+MS
6900.000	0.212	328.947	6689.383	27.612	0.000	26.562	0.000	10.594	0.000	0.000	28.103	26.020	89.126	MWD+IFR1+MS
6910.617	0.000	0.000	6700.000	28.134	0.000	26.055	0.000	10.607	0.000	0.000	28.135	26.054	89.135	MWD+IFR1+MS
7000.000	0.000	0.000	6789.383	28.404	0.000	26.342	0.000	10.723	0.000	0.000	28.405	26.341	89.292	MWD+IFR1+MS
7100.000	0.000	0.000	6889.383	28.711	0.000	26.668	0.000	10.855	0.000	0.000	28.711	26.668	89.578	MWD+IFR1+MS
7200.000	0.000	0.000	6989.383	29.019	0.000	26.996	0.000	10.990	0.000	0.000	29.019	26.996	89.883	MWD+IFR1+MS
7300.000	0.000	0.000	7089.383	29.329	0.000	27.325	0.000	11.128	0.000	0.000	29.329	27.325	90.185	MWD+IFR1+MS
7400.000	0.000	0.000	7189.383	29.640	0.000	27.654	0.000	11.269	0.000	0.000	29.640	27.654	90.487	MWD+IFR1+MS
7500.000	0.000	0.000	7289.383	29.951	0.000	27.985	0.000	11.413	0.000	0.000	29.952	27.984	90.788	MWD+IFR1+MS
7600.000	0.000	0.000	7389.383	30.264	0.000	28.315	0.000	11.560	0.000	0.000	30.265	28.315	91.087	MWD+IFR1+MS
7700.000	0.000	0.000	7489.383	30.578	0.000	28.647	0.000	11.709	0.000	0.000	30.579	28.646	91.385	MWD+IFR1+MS
7800.000	0.000	0.000	7589.383	30.893	0.000	28.979	0.000	11.863	0.000	0.000	30.894	28.977	91.682	MWD+IFR1+MS
7900.000	0.000	0.000	7689.383	31.208	0.000	29.312	0.000	12.019	0.000	0.000	31.211	29.310	91.977	MWD+IFR1+MS
8000.000	0.000	0.000	7789.383	31.525	0.000	29.645	0.000	12.178	0.000	0.000	31.528	29.642	92.271	MWD+IFR1+MS
8100.000	0.000	0.000	7889.383	31.842	0.000	29.979	0.000	12.340	0.000	0.000	31.846	29.975	92.563	MWD+IFR1+MS
8200.000	0.000	0.000	7989.383	32.161	0.000	30.314	0.000	12.506	0.000	0.000	32.165	30.309	92.854	MWD+IFR1+MS
8300.000	0.000	0.000	8089.383	32.480	0.000	30.649	0.000	12.675	0.000	0.000	32.485	30.643	93.143	MWD+IFR1+MS
8400.000	0.000	0.000	8189.383	32.800	0.000	30.985	0.000	12.846	0.000	0.000	32.806	30.978	93.431	MWD+IFR1+MS
8500.000	0.000	0.000	8289.383	33.121	0.000	31.321	0.000	13.022	0.000	0.000	33.128	31.313	93.716	MWD+IFR1+MS
8600.000	0.000	0.000	8389.383	33.442	0.000	31.657	0.000	13.200	0.000	0.000	33.451	31.648	94.000	MWD+IFR1+MS
8700.000	0.000	0.000	8489.383	33.765	0.000	31.994	0.000	13.381	0.000	0.000	33.774	31.984	94.282	MWD+IFR1+MS
8800.000	0.000	0.000	8589.383	34.088	0.000	32.332	0.000	13.566	0.000	0.000	34.099	32.320	94.563	MWD+IFR1+MS
8900.000	0.000	0.000	8689.383	34.411	0.000	32.670	0.000	13.754	0.000	0.000	34.424	32.657	94.841	MWD+IFR1+MS
9000.000	0.000	0.000	8789.383	34.736	0.000	33.008	0.000	13.945	0.000	0.000	34.750	32.994	95.118	MWD+IFR1+MS
9100.000	0.000	0.000	8889.383	35.061	0.000	33.347	0.000	14.140	0.000	0.000	35.076	33.331	95.393	MWD+IFR1+MS
9200.000	0.000	0.000	8989.383	35.387	0.000	33.686	0.000	14.338	0.000	0.000	35.403	33.669	95.665	MWD+IFR1+MS
9219.417	0.000	0.000	9008.800	35.449	0.000	33.751	0.000	14.376	0.000	0.000	35.466	33.734	95.687	MWD+IFR1+MS

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9300.000	6.447	179.642	9089.213	35.089	0.000	34.005	-0.000	14.537	0.000	0.000	35.824	33.985	95.597	MWD+IFR1+MS
9400.000	14.447	179.642	9187.475	34.951	0.000	34.286	-0.000	14.806	0.000	0.000	37.001	34.261	95.018	MWD+IFR1+MS
9500.000	22.447	179.642	9282.260	34.514	0.000	34.538	-0.000	15.265	0.000	0.000	38.237	34.507	94.779	MWD+IFR1+MS
9600.000	30.447	179.642	9371.722	33.626	0.000	34.761	-0.000	15.975	0.000	0.000	39.287	34.722	94.749	MWD+IFR1+MS
9700.000	38.447	179.642	9454.121	32.393	0.000	34.951	-0.000	16.970	0.000	0.000	40.142	34.906	94.814	MWD+IFR1+MS
9800.000	46.447	179.642	9527.851	30.952	0.000	35.110	-0.000	18.243	0.000	0.000	40.800	35.057	94.925	MWD+IFR1+MS
9900.000	54.447	179.642	9591.479	29.473	0.000	35.237	-0.000	19.756	0.000	0.000	41.272	35.178	95.050	MWD+IFR1+MS
10000.000	62.447	179.642	9643.766	28.164	0.000	35.332	-0.000	21.450	0.000	0.000	41.576	35.269	95.159	MWD+IFR1+MS
10100.000	70.447	179.642	9683.694	27.246	0.000	35.397	-0.000	23.259	0.000	0.000	41.742	35.331	95.220	MWD+IFR1+MS
10200.000	78.447	179.642	9710.486	26.925	0.000	35.432	-0.000	25.116	0.000	0.000	41.807	35.367	95.192	MWD+IFR1+MS
10300.000	86.447	179.642	9723.620	27.332	0.000	35.438	-0.000	26.957	0.000	0.000	41.813	35.376	95.029	MWD+IFR1+MS
10344.417	90.000	179.642	9724.997	27.218	0.000	35.429	-0.000	27.218	0.000	0.000	41.810	35.370	94.893	MWD+IFR1+MS
10400.000	90.000	179.642	9724.997	27.372	0.000	35.416	-0.000	27.372	0.000	0.000	41.806	35.361	94.709	MWD+IFR1+MS
10500.000	90.000	179.642	9724.997	27.618	0.000	35.410	-0.000	27.618	0.000	0.000	41.800	35.362	94.390	MWD+IFR1+MS
10600.000	90.000	179.642	9724.997	27.887	0.000	35.423	-0.000	27.887	0.000	0.000	41.795	35.381	94.081	MWD+IFR1+MS
10700.000	90.000	179.642	9724.997	28.175	0.000	35.452	-0.000	28.175	0.000	0.000	41.791	35.416	93.779	MWD+IFR1+MS
10800.000	90.000	179.642	9724.997	28.481	0.000	35.498	-0.000	28.481	0.000	0.000	41.788	35.467	93.483	MWD+IFR1+MS
10900.000	90.000	179.642	9724.997	28.806	0.000	35.560	-0.000	28.806	0.000	0.000	41.786	35.534	93.191	MWD+IFR1+MS
11000.000	90.000	179.642	9724.997	29.148	0.000	35.639	-0.000	29.148	0.000	0.000	41.784	35.617	92.900	MWD+IFR1+MS
11100.000	90.000	179.642	9724.997	29.507	0.000	35.734	-0.000	29.507	0.000	0.000	41.784	35.716	92.609	MWD+IFR1+MS
11200.000	90.000	179.642	9724.997	29.883	0.000	35.845	-0.000	29.883	0.000	0.000	41.784	35.831	92.315	MWD+IFR1+MS
11300.000	90.000	179.642	9724.997	30.274	0.000	35.971	-0.000	30.274	0.000	0.000	41.785	35.961	92.017	MWD+IFR1+MS
11400.000	90.000	179.642	9724.997	30.680	0.000	36.114	-0.000	30.680	0.000	0.000	41.787	36.106	91.712	MWD+IFR1+MS
11500.000	90.000	179.642	9724.997	31.101	0.000	36.272	-0.000	31.101	0.000	0.000	41.790	36.267	91.397	MWD+IFR1+MS
11600.000	90.000	179.642	9724.997	31.535	0.000	36.446	-0.000	31.535	0.000	0.000	41.794	36.443	91.068	MWD+IFR1+MS
11700.000	90.000	179.642	9724.997	31.983	0.000	36.635	-0.000	31.983	0.000	0.000	41.799	36.633	90.723	MWD+IFR1+MS
11800.000	90.000	179.642	9724.997	32.444	0.000	36.839	-0.000	32.444	0.000	0.000	41.804	36.838	90.355	MWD+IFR1+MS
11900.000	90.000	179.642	9724.997	32.917	0.000	37.057	-0.000	32.917	0.000	0.000	41.811	37.057	89.960	MWD+IFR1+MS
12000.000	90.000	179.642	9724.997	33.402	0.000	37.290	-0.000	33.402	0.000	0.000	41.818	37.290	89.531	MWD+IFR1+MS
12100.000	90.000	179.642	9724.997	33.898	0.000	37.537	-0.000	33.898	0.000	0.000	41.827	37.537	89.058	MWD+IFR1+MS
12200.000	90.000	179.642	9724.997	34.404	0.000	37.798	-0.000	34.404	0.000	0.000	41.836	37.797	88.528	MWD+IFR1+MS
12300.000	90.000	179.642	9724.997	34.921	0.000	38.073	-0.000	34.921	0.000	0.000	41.847	38.069	87.928	MWD+IFR1+MS
12400.000	90.000	179.642	9724.997	35.448	0.000	38.361	-0.000	35.448	0.000	0.000	41.860	38.354	87.233	MWD+IFR1+MS

12500.000	90.000	179.642	9724.997	35.985	0.000	38.662	-0.000	35.985	0.000	0.000	41.874	38.651	86.415	MWD+IFR1+MS
12600.000	90.000	179.642	9724.997	36.530	0.000	38.975	-0.000	36.530	0.000	0.000	41.890	38.959	85.429	MWD+IFR1+MS
12700.000	90.000	179.642	9724.997	37.084	0.000	39.302	-0.000	37.084	0.000	0.000	41.909	39.277	84.208	MWD+IFR1+MS
12800.000	90.000	179.642	9724.997	37.646	0.000	39.640	-0.000	37.646	0.000	0.000	41.931	39.604	82.651	MWD+IFR1+MS
12900.000	90.000	179.642	9724.997	38.216	0.000	39.990	-0.000	38.216	0.000	0.000	41.958	39.939	80.593	MWD+IFR1+MS
13000.000	90.000	179.642	9724.997	38.793	0.000	40.351	-0.000	38.793	0.000	0.000	41.994	40.277	77.755	MWD+IFR1+MS
13100.000	90.000	179.642	9724.997	39.378	0.000	40.724	-0.000	39.378	0.000	0.000	42.042	40.614	73.661	MWD+IFR1+MS
13200.000	90.000	179.642	9724.997	39.969	0.000	41.107	-0.000	39.969	0.000	0.000	42.114	40.939	67.533	MWD+IFR1+MS
13300.000	90.000	179.642	9724.997	40.567	0.000	41.502	-0.000	40.567	0.000	0.000	42.228	41.232	58.472	MWD+IFR1+MS
13400.000	90.000	179.642	9724.997	41.171	0.000	41.906	-0.000	41.171	0.000	0.000	42.413	41.466	46.843	MWD+IFR1+MS
13500.000	90.000	179.642	9724.997	41.782	0.000	42.320	-0.000	41.782	0.000	0.000	42.683	41.626	35.644	MWD+IFR1+MS
13600.000	90.000	179.642	9724.997	42.398	0.000	42.744	-0.000	42.398	0.000	0.000	43.021	41.727	27.345	MWD+IFR1+MS
13700.000	90.000	179.642	9724.997	43.019	0.000	43.178	-0.000	43.019	0.000	0.000	43.403	41.793	21.802	MWD+IFR1+MS
13800.000	90.000	179.642	9724.997	43.646	0.000	43.621	-0.000	43.646	0.000	0.000	43.814	41.842	18.082	MWD+IFR1+MS
13900.000	90.000	179.642	9724.997	44.278	0.000	44.072	-0.000	44.278	0.000	0.000	44.244	41.880	15.484	MWD+IFR1+MS
14000.000	90.000	179.642	9724.997	44.915	0.000	44.532	-0.000	44.915	0.000	0.000	44.689	41.912	13.589	MWD+IFR1+MS
14100.000	90.000	179.642	9724.997	45.556	0.000	45.001	-0.000	45.556	0.000	0.000	45.146	41.941	12.153	MWD+IFR1+MS
14200.000	90.000	179.642	9724.997	46.202	0.000	45.477	-0.000	46.202	0.000	0.000	45.614	41.968	11.029	MWD+IFR1+MS
14300.000	90.000	179.642	9724.997	46.852	0.000	45.961	-0.000	46.852	0.000	0.000	46.091	41.993	10.125	MWD+IFR1+MS
14400.000	90.000	179.642	9724.997	47.506	0.000	46.453	-0.000	47.506	0.000	0.000	46.578	42.018	9.382	MWD+IFR1+MS
14500.000	90.000	179.642	9724.997	48.163	0.000	46.952	-0.000	48.163	0.000	0.000	47.072	42.042	8.760	MWD+IFR1+MS
14600.000	90.000	179.642	9724.997	48.825	0.000	47.459	-0.000	48.825	0.000	0.000	47.575	42.066	8.230	MWD+IFR1+MS
14700.000	90.000	179.642	9724.997	49.490	0.000	47.972	-0.000	49.490	0.000	0.000	48.085	42.090	7.774	MWD+IFR1+MS
14800.000	90.000	179.642	9724.997	50.159	0.000	48.492	-0.000	50.159	0.000	0.000	48.602	42.113	7.375	MWD+IFR1+MS
14900.000	90.000	179.642	9724.997	50.831	0.000	49.018	-0.000	50.831	0.000	0.000	49.125	42.138	7.024	MWD+IFR1+MS
15000.000	90.000	179.642	9724.997	51.506	0.000	49.551	-0.000	51.506	0.000	0.000	49.656	42.162	6.711	MWD+IFR1+MS
15100.000	90.000	179.642	9724.997	52.185	0.000	50.089	-0.000	52.185	0.000	0.000	50.192	42.186	6.431	MWD+IFR1+MS
15200.000	90.000	179.642	9724.997	52.866	0.000	50.634	-0.000	52.866	0.000	0.000	50.735	42.211	6.178	MWD+IFR1+MS
15300.000	90.000	179.642	9724.997	53.550	0.000	51.184	-0.000	53.550	0.000	0.000	51.283	42.237	5.948	MWD+IFR1+MS
15400.000	90.000	179.642	9724.997	54.237	0.000	51.739	-0.000	54.237	0.000	0.000	51.837	42.262	5.738	MWD+IFR1+MS
15500.000	90.000	179.642	9724.997	54.926	0.000	52.300	-0.000	54.926	0.000	0.000	52.397	42.288	5.545	MWD+IFR1+MS
15600.000	90.000	179.642	9724.997	55.618	0.000	52.866	-0.000	55.618	0.000	0.000	52.961	42.314	5.368	MWD+IFR1+MS
15700.000	90.000	179.642	9724.997	56.313	0.000	53.437	-0.000	56.313	0.000	0.000	53.531	42.341	5.203	MWD+IFR1+MS

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15800.000	90.000	179.642	9724.997	57.009	0.000	54.013	-0.000	57.009	0.000	0.000	54.106	42.368	5.050	MWD+IFR1+MS
15900.000	90.000	179.642	9724.997	57.708	0.000	54.593	-0.000	57.708	0.000	0.000	54.685	42.396	4.908	MWD+IFR1+MS
16000.000	90.000	179.642	9724.997	58.410	0.000	55.178	-0.000	58.410	0.000	0.000	55.269	42.424	4.775	MWD+IFR1+MS
16100.000	90.000	179.642	9724.997	59.113	0.000	55.768	-0.000	59.113	0.000	0.000	55.858	42.453	4.649	MWD+IFR1+MS
16200.000	90.000	179.642	9724.997	59.818	0.000	56.361	-0.000	59.818	0.000	0.000	56.450	42.482	4.532	MWD+IFR1+MS
16300.000	90.000	179.642	9724.997	60.525	0.000	56.959	-0.000	60.525	0.000	0.000	57.047	42.511	4.421	MWD+IFR1+MS
16400.000	90.000	179.642	9724.997	61.235	0.000	57.561	-0.000	61.235	0.000	0.000	57.648	42.541	4.316	MWD+IFR1+MS
16500.000	90.000	179.642	9724.997	61.946	0.000	58.166	-0.000	61.946	0.000	0.000	58.253	42.572	4.217	MWD+IFR1+MS
16600.000	90.000	179.642	9724.997	62.658	0.000	58.775	-0.000	62.658	0.000	0.000	58.861	42.603	4.123	MWD+IFR1+MS
16700.000	90.000	179.642	9724.997	63.373	0.000	59.388	-0.000	63.373	0.000	0.000	59.473	42.634	4.033	MWD+IFR1+MS
16800.000	90.000	179.642	9724.997	64.089	0.000	60.005	-0.000	64.089	0.000	0.000	60.089	42.666	3.948	MWD+IFR1+MS
16900.000	90.000	179.642	9724.997	64.807	0.000	60.624	-0.000	64.807	0.000	0.000	60.708	42.698	3.866	MWD+IFR1+MS
17000.000	90.000	179.642	9724.997	65.526	0.000	61.248	-0.000	65.526	0.000	0.000	61.330	42.731	3.789	MWD+IFR1+MS
17100.000	90.000	179.642	9724.997	66.247	0.000	61.874	-0.000	66.247	0.000	0.000	61.956	42.764	3.714	MWD+IFR1+MS
17200.000	90.000	179.642	9724.997	66.969	0.000	62.503	-0.000	66.969	0.000	0.000	62.584	42.798	3.643	MWD+IFR1+MS
17300.000	90.000	179.642	9724.997	67.692	0.000	63.136	-0.000	67.692	0.000	0.000	63.216	42.832	3.575	MWD+IFR1+MS
17400.000	90.000	179.642	9724.997	68.417	0.000	63.771	-0.000	68.417	0.000	0.000	63.851	42.867	3.509	MWD+IFR1+MS
17500.000	90.000	179.642	9724.997	69.143	0.000	64.409	-0.000	69.143	0.000	0.000	64.488	42.902	3.447	MWD+IFR1+MS
17600.000	90.000	179.642	9724.997	69.871	0.000	65.050	-0.000	69.871	0.000	0.000	65.129	42.937	3.386	MWD+IFR1+MS
17700.000	90.000	179.642	9724.997	70.599	0.000	65.694	-0.000	70.599	0.000	0.000	65.772	42.973	3.328	MWD+IFR1+MS
17800.000	90.000	179.642	9724.997	71.329	0.000	66.340	-0.000	71.329	0.000	0.000	66.417	43.010	3.271	MWD+IFR1+MS
17900.000	90.000	179.642	9724.997	72.060	0.000	66.988	-0.000	72.060	0.000	0.000	67.065	43.047	3.217	MWD+IFR1+MS
18000.000	90.000	179.642	9724.997	72.793	0.000	67.640	-0.000	72.793	0.000	0.000	67.716	43.085	3.165	MWD+IFR1+MS
18100.000	90.000	179.642	9724.997	73.526	0.000	68.293	-0.000	73.526	0.000	0.000	68.369	43.123	3.114	MWD+IFR1+MS
18200.000	90.000	179.642	9724.997	74.260	0.000	68.949	-0.000	74.260	0.000	0.000	69.024	43.161	3.065	MWD+IFR1+MS
18300.000	90.000	179.642	9724.997	74.995	0.000	69.607	-0.000	74.995	0.000	0.000	69.681	43.200	3.017	MWD+IFR1+MS
18400.000	90.000	179.642	9724.997	75.732	0.000	70.267	-0.000	75.732	0.000	0.000	70.341	43.239	2.972	MWD+IFR1+MS
18500.000	90.000	179.642	9724.997	76.469	0.000	70.930	-0.000	76.469	0.000	0.000	71.003	43.279	2.927	MWD+IFR1+MS
18600.000	90.000	179.642	9724.997	77.207	0.000	71.594	-0.000	77.207	0.000	0.000	71.667	43.319	2.884	MWD+IFR1+MS
18700.000	90.000	179.642	9724.997	77.946	0.000	72.260	-0.000	77.946	0.000	0.000	72.333	43.360	2.842	MWD+IFR1+MS
18800.000	90.000	179.642	9724.997	78.686	0.000	72.929	-0.000	78.686	0.000	0.000	73.001	43.401	2.801	MWD+IFR1+MS
18900.000	90.000	179.642	9724.997	79.427	0.000	73.599	-0.000	79.427	0.000	0.000	73.670	43.443	2.762	MWD+IFR1+MS
19000.000	90.000	179.642	9724.997	80.169	0.000	74.271	-0.000	80.169	0.000	0.000	74.342	43.485	2.723	MWD+IFR1+MS

19100.000	90.000	179.642	9724.997	80.911	0.000	74.945	-0.000	80.911	0.000	0.000	75.015	43.528	2.686	MWD+IFR1+MS
19200.000	90.000	179.642	9724.997	81.655	0.000	75.621	-0.000	81.655	0.000	0.000	75.690	43.571	2.649	MWD+IFR1+MS
19300.000	90.000	179.642	9724.997	82.399	0.000	76.298	-0.000	82.399	0.000	0.000	76.367	43.615	2.614	MWD+IFR1+MS
19400.000	90.000	179.642	9724.997	83.144	0.000	76.977	-0.000	83.144	0.000	0.000	77.046	43.659	2.580	MWD+IFR1+MS
19500.000	90.000	179.642	9724.997	83.889	0.000	77.658	-0.000	83.889	0.000	0.000	77.726	43.703	2.546	MWD+IFR1+MS
19600.000	90.000	179.642	9724.997	84.636	0.000	78.340	-0.000	84.636	0.000	0.000	78.408	43.748	2.513	MWD+IFR1+MS
19700.000	90.000	179.642	9724.997	85.382	0.000	79.024	-0.000	85.382	0.000	0.000	79.091	43.793	2.481	MWD+IFR1+MS
19800.000	90.000	179.642	9724.997	86.130	0.000	79.709	-0.000	86.130	0.000	0.000	79.776	43.839	2.450	MWD+IFR1+MS
19900.000	90.000	179.642	9724.997	86.878	0.000	80.396	-0.000	86.878	0.000	0.000	80.462	43.886	2.420	MWD+IFR1+MS
20000.000	90.000	179.642	9724.997	87.627	0.000	81.084	-0.000	87.627	0.000	0.000	81.150	43.932	2.390	MWD+IFR1+MS
20100.000	90.000	179.642	9724.997	88.377	0.000	81.773	-0.000	88.377	0.000	0.000	81.839	43.979	2.361	MWD+IFR1+MS
20200.000	90.000	179.642	9724.997	89.127	0.000	82.464	-0.000	89.127	0.000	0.000	82.529	44.027	2.333	MWD+IFR1+MS
20300.000	90.000	179.642	9724.997	89.878	0.000	83.156	-0.000	89.878	0.000	0.000	83.221	44.075	2.305	MWD+IFR1+MS
20400.000	90.000	179.642	9724.997	90.629	0.000	83.849	-0.000	90.629	0.000	0.000	83.914	44.124	2.278	MWD+IFR1+MS
20500.000	90.000	179.642	9724.997	91.381	0.000	84.544	-0.000	91.381	0.000	0.000	84.608	44.173	2.251	MWD+IFR1+MS
20600.000	90.000	179.642	9724.997	92.133	0.000	85.240	-0.000	92.133	0.000	0.000	85.303	44.222	2.225	MWD+IFR1+MS
20700.000	90.000	179.642	9724.997	92.886	0.000	85.937	-0.000	92.886	0.000	0.000	86.000	44.272	2.200	MWD+IFR1+MS
20800.000	90.000	179.642	9724.997	93.640	0.000	86.635	-0.000	93.640	0.000	0.000	86.698	44.322	2.175	MWD+IFR1+MS
20900.000	90.000	179.642	9724.997	94.394	0.000	87.334	-0.000	94.394	0.000	0.000	87.397	44.373	2.151	MWD+IFR1+MS
21000.000	90.000	179.642	9724.997	95.148	0.000	88.035	-0.000	95.148	0.000	0.000	88.097	44.424	2.127	MWD+IFR1+MS
21100.000	90.000	179.642	9724.997	95.903	0.000	88.736	-0.000	95.903	0.000	0.000	88.798	44.476	2.104	MWD+IFR1+MS
21200.000	90.000	179.642	9724.997	96.659	0.000	89.439	-0.000	96.659	0.000	0.000	89.500	44.528	2.081	MWD+IFR1+MS
21300.000	90.000	179.642	9724.997	97.415	0.000	90.142	-0.000	97.415	0.000	0.000	90.203	44.580	2.058	MWD+IFR1+MS
21400.000	90.000	179.642	9724.997	98.171	0.000	90.847	-0.000	98.171	0.000	0.000	90.907	44.633	2.037	MWD+IFR1+MS
21500.000	90.000	179.642	9724.997	98.928	0.000	91.553	-0.000	98.928	0.000	0.000	91.612	44.686	2.015	MWD+IFR1+MS
21600.000	90.000	179.642	9724.997	99.685	0.000	92.259	-0.000	99.685	0.000	0.000	92.319	44.740	1.994	MWD+IFR1+MS
21700.000	90.000	179.642	9724.997	100.443	0.000	92.967	-0.000	100.443	0.000	0.000	93.026	44.794	1.973	MWD+IFR1+MS
21800.000	90.000	179.642	9724.997	101.201	0.000	93.675	-0.000	101.201	0.000	0.000	93.734	44.849	1.953	MWD+IFR1+MS
21900.000	90.000	179.642	9724.997	101.959	0.000	94.384	-0.000	101.959	0.000	0.000	94.443	44.904	1.933	MWD+IFR1+MS
22000.000	90.000	179.642	9724.997	102.718	0.000	95.094	-0.000	102.718	0.000	0.000	95.152	44.959	1.913	MWD+IFR1+MS
22100.000	90.000	179.642	9724.997	103.478	0.000	95.805	-0.000	103.478	0.000	0.000	95.863	45.015	1.894	MWD+IFR1+MS
22200.000	90.000	179.642	9724.997	104.237	0.000	96.517	-0.000	104.237	0.000	0.000	96.575	45.071	1.875	MWD+IFR1+MS
22300.000	90.000	179.642	9724.997	104.997	0.000	97.230	-0.000	104.997	0.000	0.000	97.287	45.128	1.856	MWD+IFR1+MS

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22400.000	90.000	179.642	9724.997	105.758	0.000	97.943	-0.000	105.758	0.000	0.000	98.000	45.185	1.838	MWD+IFR1+MS
22500.000	90.000	179.642	9724.997	106.518	0.000	98.658	-0.000	106.518	0.000	0.000	98.714	45.242	1.820	MWD+IFR1+MS
22600.000	90.000	179.642	9724.997	107.279	0.000	99.373	-0.000	107.279	0.000	0.000	99.429	45.300	1.803	MWD+IFR1+MS
22623.912	90.000	179.642	9724.997	107.461	0.000	99.543	-0.000	107.461	0.000	0.000	99.599	45.314	1.799	MWD+IFR1+MS
22700.000	90.000	179.642	9724.997	108.039	0.000	100.086	-0.000	108.039	0.000	0.000	100.142	45.359	1.786	MWD+IFR1+MS
22713.773	90.000	179.642	9724.997	108.144	0.000	100.184	-0.000	108.144	0.000	0.000	100.240	45.367	1.783	MWD+IFR1+MS

Plan Targets Poker Lake Unit 21 DTD South 154H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 17	10097.44	440436.60	638896.60	6316.00	RECTANGLE
SHL 23	12532.77	439142.92	639718.93	7731.00	RECTANGLE
LTP 17	22623.77	427441.30	638977.90	6316.00	RECTANGLE
BHL 17	22713.81	427351.30	638978.40	6316.00	RECTANGLE

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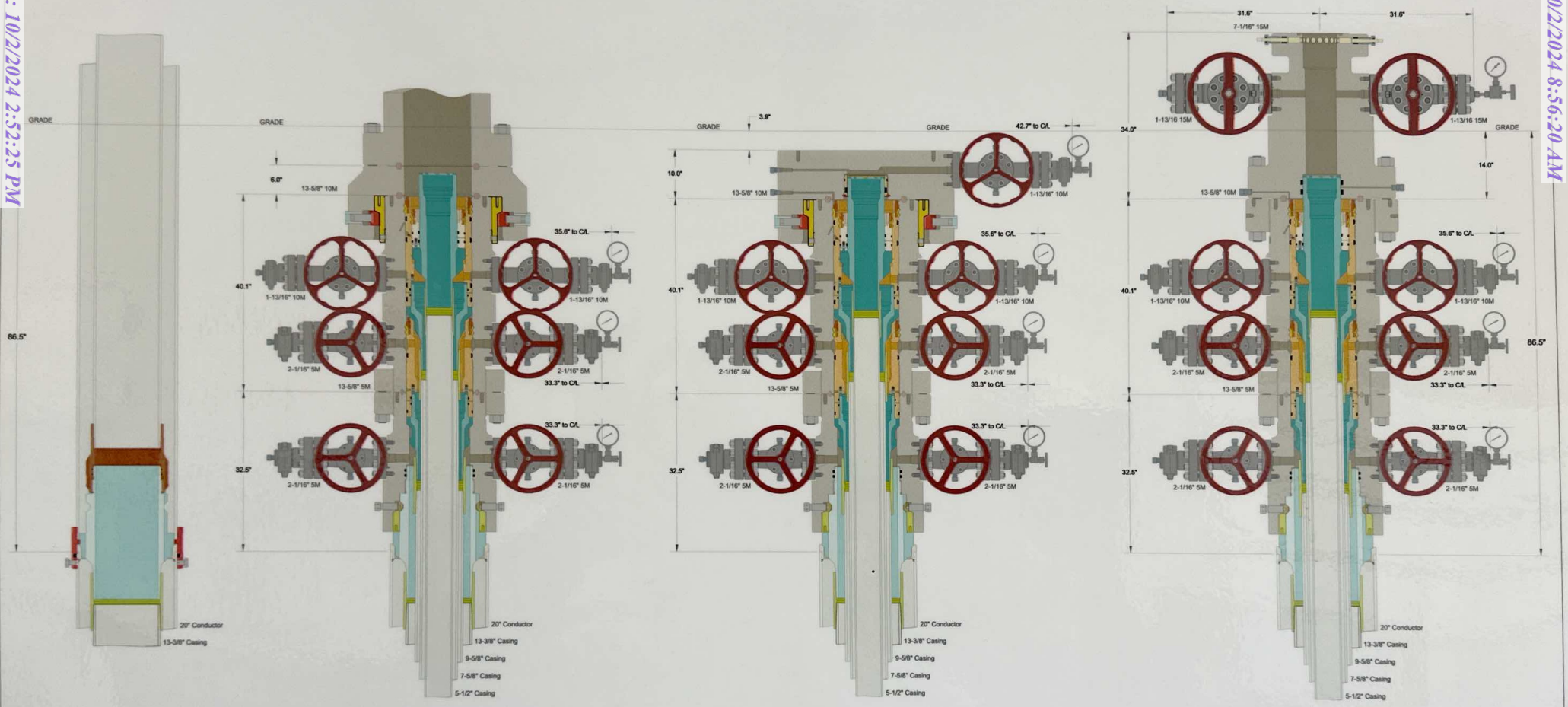

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	XTO ENERGY INC DELAWARE BASIN		
(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations	DRAWN	DLE	10SEP21
	APPRV		
	DRAWING NO.	SDT-3301	

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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 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.

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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	–

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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.

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

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

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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]

UNCONTROLLED

Notes

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

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

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

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WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. Cosmos

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

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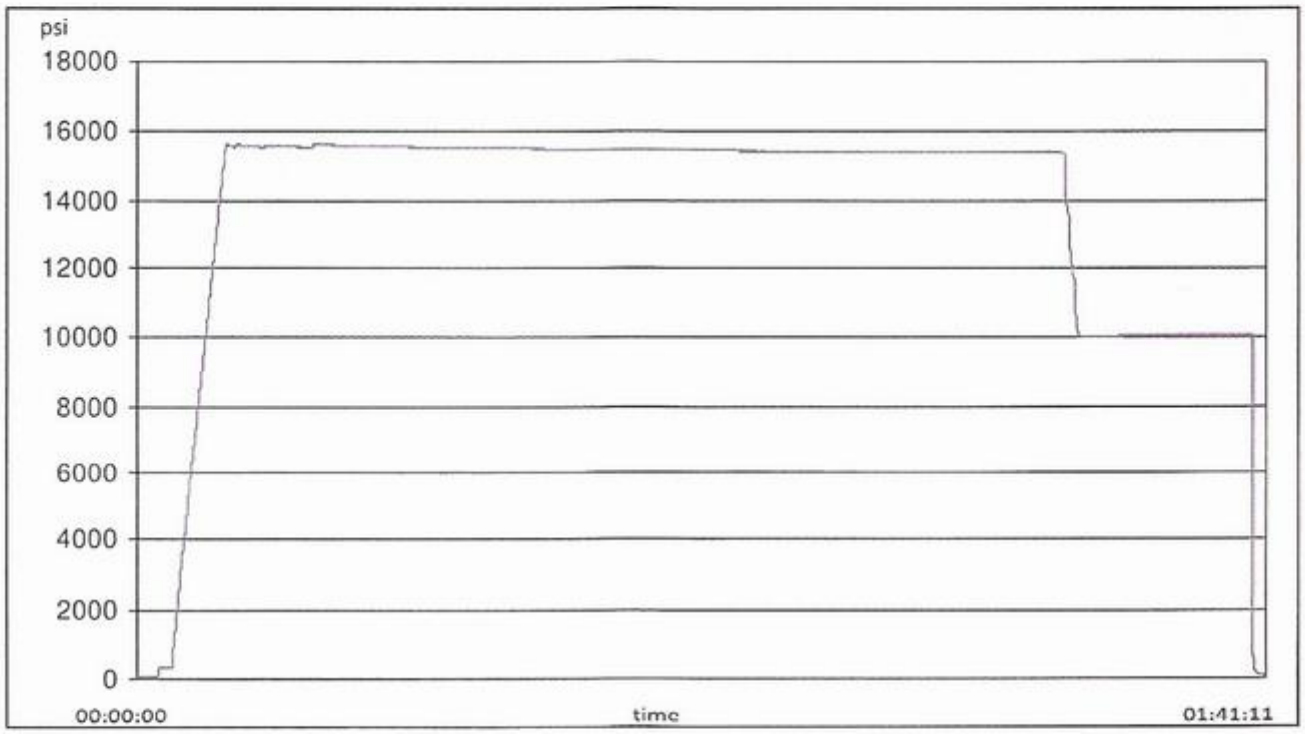
TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 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 x 4-1/16 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:					
Test operator:	Travis				



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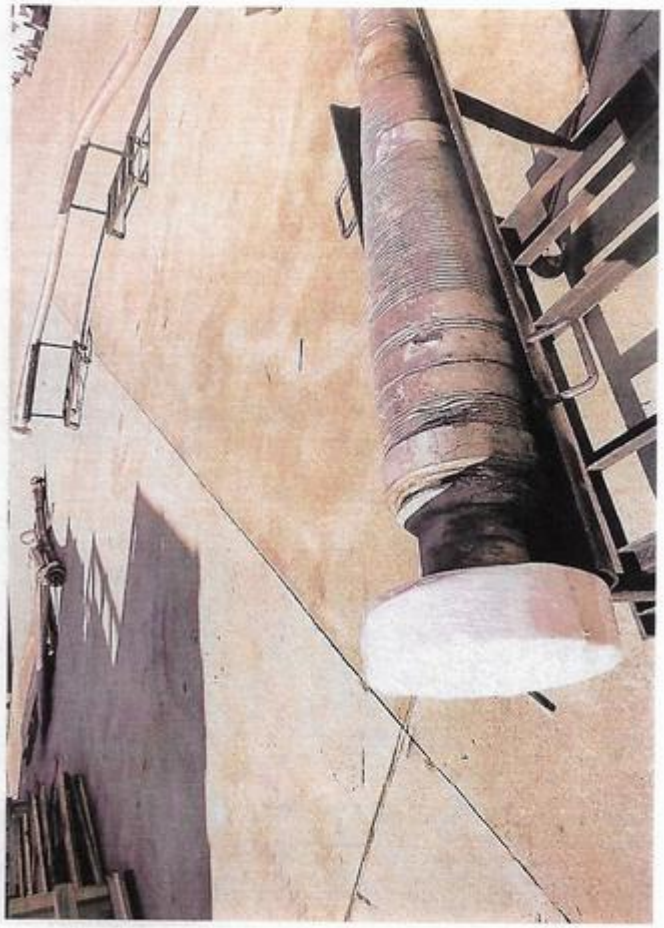
TEST REPORT

GAUGE TRACEABILITY

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

Comment



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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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 389135

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 389135
	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, if cement is not circulated to surface during cementing operations, then a CBL is required.	10/2/2024