Well Number: 101H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM068905

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549853

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2785982

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/19/2024

Time Sundry Submitted: 01:03

Date proposed operation will begin: 05/03/2024

Procedure Description: POKER LAKE UNIT 22 DTD 101H SUNDRY LANGUAGE 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: 1106' FNL & 85' FWL OF SECTION 22-T24S-R30E 916' FNL & 83' FWL OF SECTION 22-T24S-R30E FTP: 100' FSL & 257' FWL OF SECTION 15-T24S-R30E 100' FNL & 330' FWL OF SECTION 22-T24S-R30E LTP: 330' FNL & 313' FWL OF SECTION 3-T24S-R30E 2537' FNL & 330' FWL OF SECTION 34-T24S-R30E BHL: 200' FNL & 314' FWL OF SECTION 3-T24S-R30E 2627' FNL & 330' FWL OF SECTION 34-T24S-R30E The proposed total depth is changing from 26993' MD; 11093' TVD (Purple Sage; Wolfcamp (Gas)) to 23220' MD; 10385' TVD (Bone Spring 3 Shale). 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_22_DTD_101H_Sundry_Documents_20241028132350.pdf

US Well Number: 3001549853 **Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Poker_Lake_Unit_22_DTD_101H_COA_20241107053339.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: RICHARD REDUS **Signed on:** OCT 28, 2024 01:24 PM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Manager

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (720) 539-1673

Email address: RICHARD.L.REDUS@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:** 11/07/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC068905

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
POKER LAKE UNIT 22 DTD/101H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001549853

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 (GAS)

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 22/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.)

POKER LAKE UNIT 22 DTD 101H

SUNDRY LANGUAGE

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: 1106' FNL & 85' FWL OF SECTION 22-T24S-R30E 916' FNL & 83' FWL OF SECTION 22-T24S-R30E
FTP: 100' FSL & 257' FWL OF SECTION 15-T24S-R30E 100' FNL & 330' FWL OF SECTION 22-T24S-R30E
LTP: 330' FNL & 313' FWL OF SECTION 3-T24S-R30E 2537' FNL & 330' FWL OF SECTION 34-T24S-R30E
BHL: 200' FNL & 314' FWL OF SECTION 3-T24S-R30E 2627' FNL & 330' FWL OF SECTION 34-T24S-R30E

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
RICHARD REDUS / Ph: (720) 539-1673

Title Permitting Manager

Signature (Electronic Submission)

Date 10/28/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 11/07/2024

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

The proposed total depth is changing from 26993 MD; 11093 TVD (Purple Sage; Wolfcamp (Gas)) to 23220 MD; 10385 TVD (Bone Spring 3 Shale).

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: NWNW / 1106 FNL / 85 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.207458 / LONG: -103.877315 (TVD: 0 feet, MD: 0 feet)
PPP: SWNW / 100 FSL / 257 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.223256 / LONG: -103.866721 (TVD: 11093 feet, MD: 14085 feet)
PPP: LOT 4 / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253158 / LONG: -103.876545 (TVD: 11093 feet, MD: 26862 feet)
PPP: SWSW / 100 FSL / 257 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210777 / LONG: -103.876756 (TVD: 11093 feet, MD: 11445 feet)
BHL: LOT 4 / 200 FNL / 314 FWL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253515 / LONG: -103.876544 (TVD: 11093 feet, MD: 26993 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC068905**
LOCATION:	Sec. 22, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 22 DTD 101H
SURFACE HOLE FOOTAGE:	916'/N & 83'/W
BOTTOM HOLE FOOTAGE:	2627'/N & 330'/W

*Changes approved through engineering via **Sundry 2785982**_ on _11-7-2024_. 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 Choose an option (including blank option.) ☐ WIPP
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 **9-5/8** inch surface casing shall be set at approximately 950 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6404'**

b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

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

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

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

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

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 11/7/2024
575-234-5998 / zstevens@blm.gov

Amended Report ☒ | As Drilled ☐

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-49853	97798	WILDCAT G-06 S243026M; BONE SPRING

Property Code	Property Name	Well Number
333192	POKER LAKE UNIT 22 DTD	101H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,406'

Surface Owner: ☐State ☐Fee ☐Tribal ☒Federal

Mineral Owner: ☐State ☐Fee ☐Tribal ☒Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	22	24S	30E		916 FNL	83 FWL	32.207981	-103.877320	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	34	24S	30E		2,627 FNL	330 FWL	32.174290	-103.876443	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
800	INFILL	30-015-49881	Y	U

Order Numbers.

Well Setbacks are under Common Ownership: ☒Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	22	24S	30E		916 FNL	83 FWL	32.207981	-103.877320	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	22	24S	30E		100 FNL	330 FWL	32.210229	-103.876520	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	34	24S	30E		2,537 FNL	330 FWL	32.174537	-103.876445	EDDY

Unitized Area or Area of Interest	Spacing Unit Type :	Ground Elevation
NMNM105422429	☒Horizontal ☐Vertical	3,406'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, 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 at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Terra Sebastian — 11/7/2024

Signature — Date

Terra Sebastian

Printed Name

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

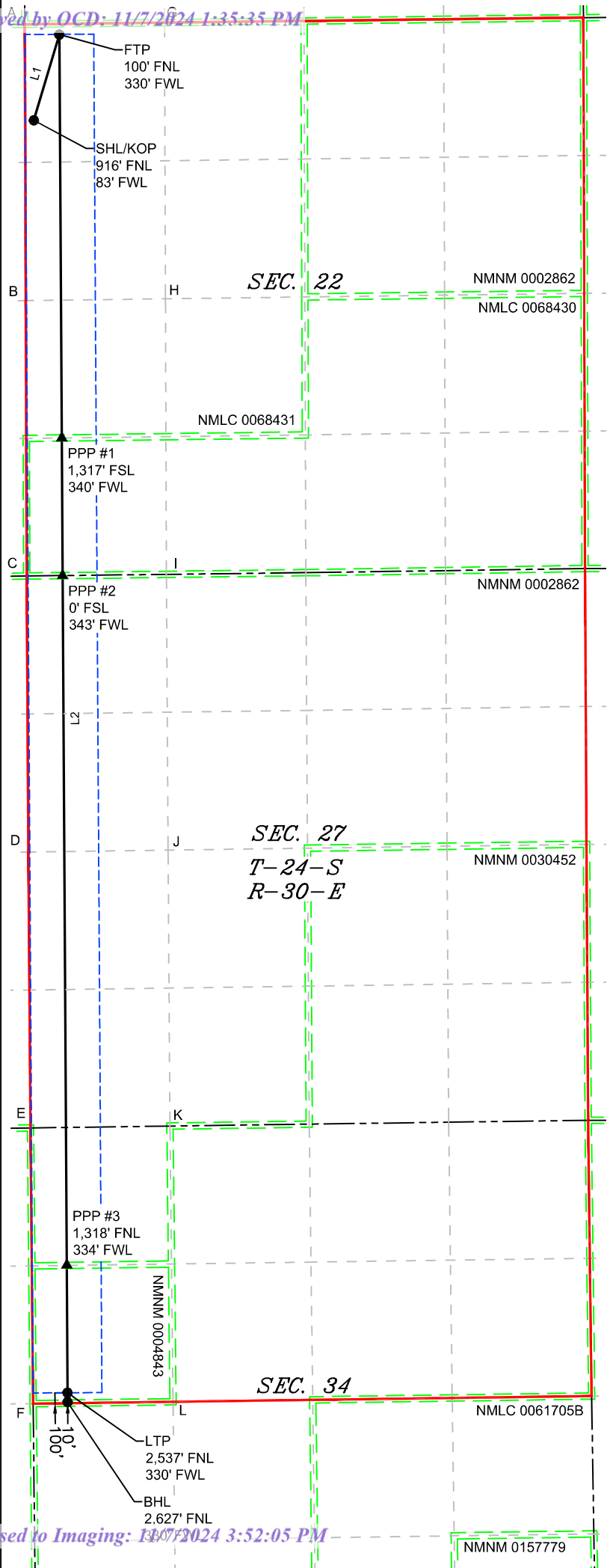
MARK DILLON HARP 23786

Certificate Number

11/1/2024

Date of Survey

not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	016°35'37"	854.37'
L2	179°39'12"	13,074.05'

COORDINATE TABLE

SHL (NAD 83 NME)			SHL (NAD 27 NME)		
Y =	439,696.7	N	Y =	439,637.5	N
X =	682,376.9	E	X =	641,193.1	E
LAT. =	32.207981	°N	LAT. =	32.207856	°N
LONG. =	103.877320	°W	LONG. =	103.876833	°W
FTP (NAD 83 NME)			**FTP (NAD 27 NME)**		
Y =	440,515.5	N	Y =	440,456.3	N
X =	682,620.9	E	X =	641,437.2	E
LAT. =	32.210229	°N	LAT. =	32.210104	°N
LONG. =	103.876520	°W	LONG. =	103.876033	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	436,658.7	N	Y =	436,599.6	N
X =	682,644.2	E	X =	641,460.3	E
LAT. =	32.199627	°N	LAT. =	32.199502	°N
LONG. =	103.876497	°W	LONG. =	103.876011	°W
PPP #2 (NAD 83 NME)			**PPP #2 (NAD 27 NME)**		
Y =	435,341.8	N	Y =	435,282.6	N
X =	682,652.1	E	X =	641,468.2	E
LAT. =	32.196007	°N	LAT. =	32.195882	°N
LONG. =	103.876490	°W	LONG. =	103.876004	°W
PPP #3 (NAD 83 NME)			**PPP #3 (NAD 27 NME)**		
Y =	428,750.1	N	Y =	428,691.1	N
X =	682,691.8	E	X =	641,507.7	E
LAT. =	32.177887	°N	LAT. =	32.177762	°N
LONG. =	103.876452	°W	LONG. =	103.875967	°W
LTP (NAD 83 NME)			**LTP (NAD 27 NME)**		
Y =	427,531.7	N	Y =	427,472.8	N
X =	682,699.2	E	X =	641,515.0	E
LAT. =	32.174537	°N	LAT. =	32.174413	°N
LONG. =	103.876445	°W	LONG. =	103.875960	°W
BHL (NAD 83 NME)			**BHL (NAD 27 NME)**		
Y =	427,441.7	N	Y =	427,382.8	N
X =	682,700.0	E	X =	641,515.8	E
LAT. =	32.174290	°N	LAT. =	32.174165	°N
LONG. =	103.876443	°W	LONG. =	103.875958	°W

CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,611.6	N	A - X =	682,290.6	E
B - Y =	437,971.3	N	B - X =	682,299.7	E
C - Y =	435,337.7	N	C - X =	682,308.9	E
D - Y =	432,700.0	N	D - X =	682,325.0	E
E - Y =	430,063.6	N	E - X =	682,344.9	E
F - Y =	427,427.2	N	F - X =	682,370.2	E
G - Y =	440,627.5	N	G - X =	683,628.8	E
H - Y =	437,988.8	N	H - X =	683,637.7	E
I - Y =	435,353.6	N	I - X =	683,646.5	E
J - Y =	432,718.6	N	J - X =	683,662.8	E
K - Y =	430,082.0	N	K - X =	683,681.0	E
L - Y =	427,445.1	N	L - X =	683,710.5	E

CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,552.3	N	A - X =	641,106.8	E
B - Y =	437,912.1	N	B - X =	641,115.9	E
C - Y =	435,278.5	N	C - X =	641,124.9	E
D - Y =	432,641.0	N	D - X =	641,141.0	E
E - Y =	430,004.6	N	E - X =	641,160.8	E
F - Y =	427,368.3	N	F - X =	641,185.9	E
G - Y =	440,568.4	N	G - X =	642,445.1	E

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

XTO Energy Inc.
POKER LAKE UNIT 22 DTD 101H
Projected TD: 23220' MD / 10385' TVD
SHL: 916' FNL & 83' FWL , Section 22, T24S, R30E
BHL: 2627' FNL & 330' FWL , Section 34, T24S, 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	1068'	Water
Top of Salt	1471'	Water
Base of Salt	3664'	Water
Delaware	3858'	Water
Brushy Canyon	6404'	Water/Oil/Gas
Bone Spring	7728'	Water
Avalon	8421'	Water/Oil/Gas
1st Bone Spring	8437'	Water/Oil/Gas
2nd Bone Spring	9022'	Water/Oil/Gas
3rd Bone Spring	9848'	Water/Oil/Gas
Target/Land Curve	10385'	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 surface casing @ 1168' and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting intermediate casing at 9537' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23220 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9237 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1168'	9.625	40	J-55	BTC	New	1.74	5.39	13.48
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.93	2.92	1.97
8.75	4000' – 9537'	7.625	29.7	HC L-80	Flush Joint	New	2.13	2.51	2.47
6.75	0' – 9437'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.22	2.11
6.75	9437' - 23220'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.02	2.11

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

Wellhead:

Permanent Wellhead – Multibowl System

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

B. Tubing Head: 20” 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.
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1168'

Lead: 290 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 +/- 9537'
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: 290 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6404
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: 720 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 (6404') 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 +/- 23220'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9237 feet
Tail: 960 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9737 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

5. Pressure Control Equipment

Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP.XTO will use a Multi-Bowl system which is attached.

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, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1168'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
1168'-3858'		Salt Saturated	10.5-11			Fully Saturated salt across salado / /salt
3858' - 9537'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
9537' - 23220'	6.75	OBM	11.5-12	50-60	NC - 20	N/A

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

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

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 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 5508 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 22 DTD South 101H

Measured Depth:	23220.40 ft
TVD RKB:	10385.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439637.50 ft
Easting:	641193.10 ft
RKB:	3438.00 ft
Ground Level:	3406.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan Sections Poker Lake Unit 22 DTD South 101H

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	
1573.18	9.46	16.60	1571.03	37.36	11.14	2.00	0.00	2.00	
6295.38	9.46	16.60	6228.97	781.44	232.96	0.00	0.00	0.00	
6768.56	0.00	0.00	6700.00	818.80	244.10	-2.00	0.00	2.00	
9737.36	0.00	0.00	9668.80	818.80	244.10	0.00	0.00	0.00	
10862.36	90.00	179.66	10385.00	102.62	248.39	8.00	0.00	8.00	
11131.11	90.00	179.66	10385.00	-166.13	250.00	0.00	0.00	0.00	LTP 1
23220.40	90.00	179.66	10385.00	-12255.20	322.37	0.00	0.00	0.00	BHL 1

Position Uncertainty Poker Lake Unit 22 DTD South 101H

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

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	2.582	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	16.600	1199.980	5.173	0.000	4.360	0.000	2.692	0.000	0.000	5.301	4.206	127.451	MWD+IFR1+MS
1300.000	4.000	16.600	1299.838	5.941	0.000	4.738	0.000	2.752	0.000	0.000	6.083	4.566	124.928	MWD+IFR1+MS
1400.000	6.000	16.600	1399.452	6.633	0.000	5.111	0.000	2.818	0.000	0.000	6.795	4.921	123.730	MWD+IFR1+MS
1500.000	8.000	16.600	1498.702	7.270	0.000	5.482	0.000	2.891	0.000	0.000	7.455	5.276	123.036	MWD+IFR1+MS
1573.182	9.464	16.600	1571.033	7.590	0.000	5.742	0.000	2.942	0.000	0.000	7.793	5.534	122.779	MWD+IFR1+MS
1600.000	9.464	16.600	1597.486	7.665	0.000	5.833	0.000	2.958	0.000	0.000	7.867	5.629	122.737	MWD+IFR1+MS
1700.000	9.464	16.600	1696.125	7.945	0.000	6.185	0.000	3.031	0.000	0.000	8.141	5.990	122.838	MWD+IFR1+MS
1800.000	9.464	16.600	1794.764	8.245	0.000	6.556	0.000	3.108	0.000	0.000	8.441	6.359	123.270	MWD+IFR1+MS
1900.000	9.464	16.600	1893.403	8.552	0.000	6.926	0.000	3.188	0.000	0.000	8.748	6.729	123.688	MWD+IFR1+MS
2000.000	9.464	16.600	1992.042	8.864	0.000	7.297	0.000	3.270	0.000	0.000	9.060	7.098	124.090	MWD+IFR1+MS
2100.000	9.464	16.600	2090.681	9.181	0.000	7.667	0.000	3.355	0.000	0.000	9.376	7.467	124.478	MWD+IFR1+MS
2200.000	9.464	16.600	2189.320	9.503	0.000	8.037	0.000	3.441	0.000	0.000	9.696	7.836	124.851	MWD+IFR1+MS
2300.000	9.464	16.600	2287.959	9.828	0.000	8.407	0.000	3.531	0.000	0.000	10.020	8.204	125.211	MWD+IFR1+MS
2400.000	9.464	16.600	2386.598	10.157	0.000	8.777	0.000	3.622	0.000	0.000	10.347	8.573	125.557	MWD+IFR1+MS
2500.000	9.464	16.600	2485.237	10.489	0.000	9.147	0.000	3.714	0.000	0.000	10.678	8.942	125.891	MWD+IFR1+MS
2600.000	9.464	16.600	2583.876	10.824	0.000	9.517	0.000	3.809	0.000	0.000	11.011	9.311	126.211	MWD+IFR1+MS
2700.000	9.464	16.600	2682.515	11.162	0.000	9.887	0.000	3.906	0.000	0.000	11.346	9.679	126.519	MWD+IFR1+MS
2800.000	9.464	16.600	2781.154	11.502	0.000	10.257	0.000	4.004	0.000	0.000	11.684	10.048	126.816	MWD+IFR1+MS
2900.000	9.464	16.600	2879.793	11.845	0.000	10.627	0.000	4.103	0.000	0.000	12.024	10.417	127.100	MWD+IFR1+MS

3000.000	9.464	16.600	2978.432	12.189	0.000	10.997	0.000	4.205	0.000	0.000	12.366	10.785	127.374	MWD+IFR1+MS
3100.000	9.464	16.600	3077.071	12.536	0.000	11.366	0.000	4.307	0.000	0.000	12.709	11.154	127.636	MWD+IFR1+MS
3200.000	9.464	16.600	3175.710	12.884	0.000	11.736	0.000	4.412	0.000	0.000	13.055	11.523	127.888	MWD+IFR1+MS
3300.000	9.464	16.600	3274.349	13.233	0.000	12.106	0.000	4.518	0.000	0.000	13.401	11.892	128.130	MWD+IFR1+MS
3400.000	9.464	16.600	3372.988	13.584	0.000	12.476	0.000	4.625	0.000	0.000	13.749	12.260	128.362	MWD+IFR1+MS
3500.000	9.464	16.600	3471.627	13.937	0.000	12.845	0.000	4.733	0.000	0.000	14.098	12.629	128.585	MWD+IFR1+MS
3600.000	9.464	16.600	3570.266	14.291	0.000	13.215	0.000	4.844	0.000	0.000	14.449	12.998	128.798	MWD+IFR1+MS
3700.000	9.464	16.600	3668.905	14.646	0.000	13.585	0.000	4.955	0.000	0.000	14.800	13.367	129.003	MWD+IFR1+MS
3800.000	9.464	16.600	3767.544	15.002	0.000	13.954	0.000	5.068	0.000	0.000	15.153	13.736	129.199	MWD+IFR1+MS
3900.000	9.464	16.600	3866.183	15.359	0.000	14.324	0.000	5.183	0.000	0.000	15.506	14.105	129.387	MWD+IFR1+MS
4000.000	9.464	16.600	3964.822	15.716	0.000	14.693	0.000	5.299	0.000	0.000	15.860	14.474	129.566	MWD+IFR1+MS
4100.000	9.464	16.600	4063.461	16.075	0.000	15.063	0.000	5.416	0.000	0.000	16.215	14.843	129.738	MWD+IFR1+MS
4200.000	9.464	16.600	4162.100	16.435	0.000	15.433	0.000	5.535	0.000	0.000	16.571	15.212	129.902	MWD+IFR1+MS
4300.000	9.464	16.600	4260.739	16.795	0.000	15.802	0.000	5.656	0.000	0.000	16.928	15.581	130.059	MWD+IFR1+MS
4400.000	9.464	16.600	4359.378	17.156	0.000	16.172	0.000	5.778	0.000	0.000	17.285	15.950	130.209	MWD+IFR1+MS
4500.000	9.464	16.600	4458.017	17.518	0.000	16.541	0.000	5.901	0.000	0.000	17.643	16.319	130.352	MWD+IFR1+MS
4600.000	9.464	16.600	4556.656	17.880	0.000	16.911	0.000	6.026	0.000	0.000	18.001	16.689	130.489	MWD+IFR1+MS
4700.000	9.464	16.600	4655.295	18.243	0.000	17.280	0.000	6.153	0.000	0.000	18.360	17.058	130.619	MWD+IFR1+MS
4800.000	9.464	16.600	4753.934	18.607	0.000	17.650	0.000	6.282	0.000	0.000	18.720	17.427	130.742	MWD+IFR1+MS
4900.000	9.464	16.600	4852.573	18.971	0.000	18.019	0.000	6.412	0.000	0.000	19.080	17.796	130.860	MWD+IFR1+MS
5000.000	9.464	16.600	4951.212	19.336	0.000	18.389	0.000	6.543	0.000	0.000	19.440	18.166	130.972	MWD+IFR1+MS
5100.000	9.464	16.600	5049.852	19.701	0.000	18.758	0.000	6.677	0.000	0.000	19.801	18.535	131.079	MWD+IFR1+MS
5200.000	9.464	16.600	5148.491	20.066	0.000	19.128	0.000	6.812	0.000	0.000	20.162	18.904	131.180	MWD+IFR1+MS
5300.000	9.464	16.600	5247.130	20.432	0.000	19.497	0.000	6.949	0.000	0.000	20.524	19.274	131.275	MWD+IFR1+MS
5400.000	9.464	16.600	5345.769	20.798	0.000	19.867	0.000	7.088	0.000	0.000	20.886	19.643	131.365	MWD+IFR1+MS
5500.000	9.464	16.600	5444.408	21.165	0.000	20.236	0.000	7.228	0.000	0.000	21.248	20.013	131.451	MWD+IFR1+MS
5600.000	9.464	16.600	5543.047	21.532	0.000	20.606	0.000	7.371	0.000	0.000	21.611	20.382	131.531	MWD+IFR1+MS
5700.000	9.464	16.600	5641.686	21.899	0.000	20.975	0.000	7.515	0.000	0.000	21.974	20.752	131.607	MWD+IFR1+MS
5800.000	9.464	16.600	5740.325	22.267	0.000	21.345	0.000	7.661	0.000	0.000	22.337	21.121	131.678	MWD+IFR1+MS
5900.000	9.464	16.600	5838.964	22.635	0.000	21.714	0.000	7.810	0.000	0.000	22.701	21.491	131.745	MWD+IFR1+MS
6000.000	9.464	16.600	5937.603	23.003	0.000	22.084	0.000	7.960	0.000	0.000	23.064	21.860	131.807	MWD+IFR1+MS
6100.000	9.464	16.600	6036.242	23.372	0.000	22.453	0.000	8.112	0.000	0.000	23.429	22.230	131.865	MWD+IFR1+MS
6200.000	9.464	16.600	6134.881	23.741	0.000	22.823	0.000	8.266	0.000	0.000	23.793	22.600	131.919	MWD+IFR1+MS

6295.383	9.464	16.600	6228.967	24.092	0.000	23.174	0.000	8.415	0.000	0.000	24.140	22.952	131.946	MWD+IFR1+MS
6300.000	9.371	16.600	6233.522	24.110	0.000	23.191	0.000	8.422	0.000	0.000	24.156	22.969	131.938	MWD+IFR1+MS
6400.000	7.371	16.600	6332.451	24.512	0.000	23.553	0.000	8.581	0.000	0.000	24.536	23.336	131.483	MWD+IFR1+MS
6500.000	5.371	16.600	6431.829	24.959	0.000	23.916	0.000	8.740	0.000	0.000	24.993	23.700	130.419	MWD+IFR1+MS
6600.000	3.371	16.600	6531.533	25.370	0.000	24.274	0.000	8.895	0.000	0.000	25.443	24.059	129.530	MWD+IFR1+MS
6700.000	1.371	16.600	6631.442	25.744	0.000	24.627	0.000	9.046	0.000	0.000	25.886	24.412	128.788	MWD+IFR1+MS
6768.565	0.000	0.000	6700.000	25.579	0.000	25.237	0.000	9.148	0.000	0.000	26.144	24.651	128.390	MWD+IFR1+MS
6800.000	0.000	0.000	6731.435	25.685	0.000	25.343	0.000	9.195	0.000	0.000	26.247	24.760	128.346	MWD+IFR1+MS
6900.000	0.000	0.000	6831.435	26.021	0.000	25.680	0.000	9.344	0.000	0.000	26.578	25.104	128.303	MWD+IFR1+MS
7000.000	0.000	0.000	6931.435	26.363	0.000	26.022	0.000	9.496	0.000	0.000	26.916	25.449	128.296	MWD+IFR1+MS
7100.000	0.000	0.000	7031.435	26.704	0.000	26.365	0.000	9.651	0.000	0.000	27.256	25.794	128.288	MWD+IFR1+MS
7200.000	0.000	0.000	7131.435	27.046	0.000	26.708	0.000	9.809	0.000	0.000	27.595	26.140	128.281	MWD+IFR1+MS
7300.000	0.000	0.000	7231.435	27.388	0.000	27.051	0.000	9.969	0.000	0.000	27.935	26.486	128.274	MWD+IFR1+MS
7400.000	0.000	0.000	7331.435	27.731	0.000	27.395	0.000	10.133	0.000	0.000	28.276	26.833	128.267	MWD+IFR1+MS
7500.000	0.000	0.000	7431.435	28.074	0.000	27.739	0.000	10.299	0.000	0.000	28.617	27.179	128.260	MWD+IFR1+MS
7600.000	0.000	0.000	7531.435	28.418	0.000	28.084	0.000	10.467	0.000	0.000	28.958	27.526	128.254	MWD+IFR1+MS
7700.000	0.000	0.000	7631.435	28.762	0.000	28.429	0.000	10.639	0.000	0.000	29.300	27.874	128.247	MWD+IFR1+MS
7800.000	0.000	0.000	7731.435	29.106	0.000	28.774	0.000	10.813	0.000	0.000	29.642	28.221	128.241	MWD+IFR1+MS
7900.000	0.000	0.000	7831.435	29.451	0.000	29.119	0.000	10.991	0.000	0.000	29.985	28.569	128.234	MWD+IFR1+MS
8000.000	0.000	0.000	7931.435	29.796	0.000	29.465	0.000	11.171	0.000	0.000	30.328	28.917	128.228	MWD+IFR1+MS
8100.000	0.000	0.000	8031.435	30.141	0.000	29.811	0.000	11.354	0.000	0.000	30.671	29.265	128.222	MWD+IFR1+MS
8200.000	0.000	0.000	8131.435	30.486	0.000	30.158	0.000	11.540	0.000	0.000	31.015	29.614	128.216	MWD+IFR1+MS
8300.000	0.000	0.000	8231.435	30.832	0.000	30.505	0.000	11.729	0.000	0.000	31.359	29.963	128.210	MWD+IFR1+MS
8400.000	0.000	0.000	8331.435	31.178	0.000	30.851	0.000	11.921	0.000	0.000	31.703	30.312	128.204	MWD+IFR1+MS
8500.000	0.000	0.000	8431.435	31.525	0.000	31.199	0.000	12.116	0.000	0.000	32.048	30.661	128.198	MWD+IFR1+MS
8600.000	0.000	0.000	8531.435	31.871	0.000	31.546	0.000	12.314	0.000	0.000	32.393	31.011	128.192	MWD+IFR1+MS
8700.000	0.000	0.000	8631.435	32.218	0.000	31.894	0.000	12.514	0.000	0.000	32.738	31.360	128.187	MWD+IFR1+MS
8800.000	0.000	0.000	8731.435	32.566	0.000	32.242	0.000	12.718	0.000	0.000	33.083	31.710	128.181	MWD+IFR1+MS
8900.000	0.000	0.000	8831.435	32.913	0.000	32.590	0.000	12.925	0.000	0.000	33.429	32.060	128.176	MWD+IFR1+MS
9000.000	0.000	0.000	8931.435	33.261	0.000	32.938	0.000	13.135	0.000	0.000	33.775	32.411	128.170	MWD+IFR1+MS
9100.000	0.000	0.000	9031.435	33.609	0.000	33.287	0.000	13.347	0.000	0.000	34.122	32.761	128.165	MWD+IFR1+MS
9200.000	0.000	0.000	9131.435	33.957	0.000	33.636	0.000	13.563	0.000	0.000	34.468	33.112	128.160	MWD+IFR1+MS
9300.000	0.000	0.000	9231.435	34.305	0.000	33.985	0.000	13.782	0.000	0.000	34.815	33.462	128.155	MWD+IFR1+MS

9400.000	0.000	0.000	9331.435	34.654	0.000	34.334	0.000	14.004	0.000	0.000	35.162	33.813	128.150	MWD+IFR1+MS
9500.000	0.000	0.000	9431.435	35.002	0.000	34.684	0.000	14.229	0.000	0.000	35.509	34.164	128.145	MWD+IFR1+MS
9600.000	0.000	0.000	9531.435	35.351	0.000	35.033	0.000	14.457	0.000	0.000	35.857	34.516	128.140	MWD+IFR1+MS
9700.000	0.000	0.000	9631.435	35.700	0.000	35.383	0.000	14.687	0.000	0.000	36.204	34.867	128.135	MWD+IFR1+MS
9737.365	0.000	0.000	9668.800	35.829	0.000	35.512	0.000	14.775	0.000	0.000	36.331	34.998	128.117	MWD+IFR1+MS
9800.000	5.011	179.657	9731.355	35.716	0.000	35.723	-0.000	14.920	0.000	0.000	36.556	35.220	127.257	MWD+IFR1+MS
9900.000	13.011	179.657	9830.041	35.782	0.000	36.021	-0.000	15.196	0.000	0.000	37.425	35.685	115.461	MWD+IFR1+MS
10000.000	21.011	179.657	9925.588	35.698	0.000	36.298	-0.000	15.638	0.000	0.000	38.618	36.057	107.239	MWD+IFR1+MS
10100.000	29.011	179.657	10016.137	35.109	0.000	36.551	-0.000	16.304	0.000	0.000	39.694	36.345	103.708	MWD+IFR1+MS
10200.000	37.011	179.657	10099.926	34.099	0.000	36.776	-0.000	17.231	0.000	0.000	40.599	36.584	101.965	MWD+IFR1+MS
10300.000	45.011	179.657	10175.323	32.777	0.000	36.973	-0.000	18.421	0.000	0.000	41.318	36.784	101.075	MWD+IFR1+MS
10400.000	53.011	179.657	10240.862	31.289	0.000	37.140	-0.000	19.842	0.000	0.000	41.853	36.950	100.667	MWD+IFR1+MS
10500.000	61.011	179.657	10295.266	29.811	0.000	37.278	-0.000	21.446	0.000	0.000	42.218	37.082	100.566	MWD+IFR1+MS
10600.000	69.011	179.657	10337.476	28.555	0.000	37.387	-0.000	23.171	0.000	0.000	42.438	37.183	100.666	MWD+IFR1+MS
10700.000	77.011	179.657	10366.672	27.740	0.000	37.467	-0.000	24.953	0.000	0.000	42.546	37.253	100.884	MWD+IFR1+MS
10800.000	85.011	179.657	10382.284	27.557	0.000	37.517	-0.000	26.733	0.000	0.000	42.582	37.294	101.130	MWD+IFR1+MS
10862.360	90.000	179.657	10384.997	27.240	0.000	37.531	-0.000	27.240	0.000	0.000	42.588	37.304	101.237	MWD+IFR1+MS
10900.000	90.000	179.657	10384.997	27.325	0.000	37.536	-0.000	27.325	0.000	0.000	42.590	37.306	101.292	MWD+IFR1+MS
11000.000	90.000	179.657	10384.997	27.505	0.000	37.564	-0.000	27.505	0.000	0.000	42.598	37.328	101.472	MWD+IFR1+MS
11100.000	90.000	179.657	10384.997	27.709	0.000	37.610	-0.000	27.709	0.000	0.000	42.607	37.367	101.689	MWD+IFR1+MS
11131.110	90.000	179.657	10384.997	27.775	0.000	37.626	-0.000	27.775	0.000	0.000	42.610	37.381	101.759	MWD+IFR1+MS
11200.000	90.000	179.657	10384.997	27.928	0.000	37.666	-0.000	27.928	0.000	0.000	42.617	37.416	101.928	MWD+IFR1+MS
11300.000	90.000	179.657	10384.997	28.172	0.000	37.742	-0.000	28.172	0.000	0.000	42.629	37.483	102.213	MWD+IFR1+MS
11400.000	90.000	179.657	10384.997	28.436	0.000	37.835	-0.000	28.436	0.000	0.000	42.642	37.566	102.541	MWD+IFR1+MS
11500.000	90.000	179.657	10384.997	28.720	0.000	37.943	-0.000	28.720	0.000	0.000	42.657	37.664	102.914	MWD+IFR1+MS
11600.000	90.000	179.657	10384.997	29.022	0.000	38.066	-0.000	29.022	0.000	0.000	42.674	37.775	103.335	MWD+IFR1+MS
11700.000	90.000	179.657	10384.997	29.342	0.000	38.204	-0.000	29.342	0.000	0.000	42.692	37.900	103.810	MWD+IFR1+MS
11800.000	90.000	179.657	10384.997	29.679	0.000	38.356	-0.000	29.679	0.000	0.000	42.712	38.038	104.348	MWD+IFR1+MS
11900.000	90.000	179.657	10384.997	30.033	0.000	38.523	-0.000	30.033	0.000	0.000	42.735	38.190	104.955	MWD+IFR1+MS
12000.000	90.000	179.657	10384.997	30.403	0.000	38.705	-0.000	30.403	0.000	0.000	42.760	38.353	105.641	MWD+IFR1+MS
12100.000	90.000	179.657	10384.997	30.789	0.000	38.901	-0.000	30.789	0.000	0.000	42.788	38.529	106.420	MWD+IFR1+MS
12200.000	90.000	179.657	10384.997	31.189	0.000	39.111	-0.000	31.189	0.000	0.000	42.820	38.716	107.305	MWD+IFR1+MS
12300.000	90.000	179.657	10384.997	31.604	0.000	39.335	-0.000	31.604	0.000	0.000	42.855	38.913	108.314	MWD+IFR1+MS

12400.000	90.000	179.657	10384.997	32.033	0.000	39.572	-0.000	32.033	0.000	0.000	42.895	39.120	109.467	MWD+IFR1+MS
12500.000	90.000	179.657	10384.997	32.475	0.000	39.823	-0.000	32.475	0.000	0.000	42.940	39.336	110.790	MWD+IFR1+MS
12600.000	90.000	179.657	10384.997	32.930	0.000	40.086	-0.000	32.930	0.000	0.000	42.992	39.558	112.312	MWD+IFR1+MS
12700.000	90.000	179.657	10384.997	33.398	0.000	40.363	-0.000	33.398	0.000	0.000	43.051	39.786	114.066	MWD+IFR1+MS
12800.000	90.000	179.657	10384.997	33.877	0.000	40.652	-0.000	33.877	0.000	0.000	43.120	40.018	116.088	MWD+IFR1+MS
12900.000	90.000	179.657	10384.997	34.367	0.000	40.953	-0.000	34.367	0.000	0.000	43.201	40.251	118.415	MWD+IFR1+MS
13000.000	90.000	179.657	10384.997	34.868	0.000	41.266	-0.000	34.868	0.000	0.000	43.296	40.483	121.077	MWD+IFR1+MS
13100.000	90.000	179.657	10384.997	35.379	0.000	41.591	-0.000	35.379	0.000	0.000	43.408	40.709	124.093	MWD+IFR1+MS
13200.000	90.000	179.657	10384.997	35.900	0.000	41.928	-0.000	35.900	0.000	0.000	43.540	40.927	127.450	MWD+IFR1+MS
13300.000	90.000	179.657	10384.997	36.431	0.000	42.275	-0.000	36.431	0.000	0.000	43.697	41.133	131.100	MWD+IFR1+MS
13400.000	90.000	179.657	10384.997	36.971	0.000	42.634	-0.000	36.971	0.000	0.000	43.880	41.323	134.945	MWD+IFR1+MS
13500.000	90.000	179.657	10384.997	37.519	0.000	43.003	-0.000	37.519	0.000	0.000	44.093	41.496	-41.146	MWD+IFR1+MS
13600.000	90.000	179.657	10384.997	38.075	0.000	43.383	-0.000	38.075	0.000	0.000	44.335	41.649	-37.321	MWD+IFR1+MS
13700.000	90.000	179.657	10384.997	38.640	0.000	43.772	-0.000	38.640	0.000	0.000	44.607	41.785	-33.707	MWD+IFR1+MS
13800.000	90.000	179.657	10384.997	39.212	0.000	44.172	-0.000	39.212	0.000	0.000	44.906	41.902	-30.394	MWD+IFR1+MS
13900.000	90.000	179.657	10384.997	39.791	0.000	44.581	-0.000	39.791	0.000	0.000	45.230	42.005	-27.424	MWD+IFR1+MS
14000.000	90.000	179.657	10384.997	40.378	0.000	44.999	-0.000	40.378	0.000	0.000	45.577	42.095	-24.803	MWD+IFR1+MS
14100.000	90.000	179.657	10384.997	40.971	0.000	45.427	-0.000	40.971	0.000	0.000	45.944	42.175	-22.511	MWD+IFR1+MS
14200.000	90.000	179.657	10384.997	41.570	0.000	45.863	-0.000	41.570	0.000	0.000	46.329	42.246	-20.515	MWD+IFR1+MS
14300.000	90.000	179.657	10384.997	42.175	0.000	46.308	-0.000	42.175	0.000	0.000	46.731	42.309	-18.778	MWD+IFR1+MS
14400.000	90.000	179.657	10384.997	42.787	0.000	46.761	-0.000	42.787	0.000	0.000	47.147	42.367	-17.265	MWD+IFR1+MS
14500.000	90.000	179.657	10384.997	43.403	0.000	47.222	-0.000	43.403	0.000	0.000	47.576	42.421	-15.942	MWD+IFR1+MS
14600.000	90.000	179.657	10384.997	44.026	0.000	47.691	-0.000	44.026	0.000	0.000	48.017	42.471	-14.781	MWD+IFR1+MS
14700.000	90.000	179.657	10384.997	44.653	0.000	48.167	-0.000	44.653	0.000	0.000	48.469	42.518	-13.757	MWD+IFR1+MS
14800.000	90.000	179.657	10384.997	45.285	0.000	48.651	-0.000	45.285	0.000	0.000	48.932	42.562	-12.851	MWD+IFR1+MS
14900.000	90.000	179.657	10384.997	45.922	0.000	49.143	-0.000	45.922	0.000	0.000	49.404	42.605	-12.045	MWD+IFR1+MS
15000.000	90.000	179.657	10384.997	46.563	0.000	49.641	-0.000	46.563	0.000	0.000	49.885	42.646	-11.324	MWD+IFR1+MS
15100.000	90.000	179.657	10384.997	47.209	0.000	50.145	-0.000	47.209	0.000	0.000	50.375	42.686	-10.678	MWD+IFR1+MS
15200.000	90.000	179.657	10384.997	47.859	0.000	50.657	-0.000	47.859	0.000	0.000	50.872	42.725	-10.095	MWD+IFR1+MS
15300.000	90.000	179.657	10384.997	48.513	0.000	51.174	-0.000	48.513	0.000	0.000	51.378	42.763	-9.567	MWD+IFR1+MS
15400.000	90.000	179.657	10384.997	49.171	0.000	51.698	-0.000	49.171	0.000	0.000	51.890	42.800	-9.088	MWD+IFR1+MS
15500.000	90.000	179.657	10384.997	49.832	0.000	52.228	-0.000	49.832	0.000	0.000	52.410	42.837	-8.651	MWD+IFR1+MS
15600.000	90.000	179.657	10384.997	50.497	0.000	52.764	-0.000	50.497	0.000	0.000	52.936	42.874	-8.251	MWD+IFR1+MS

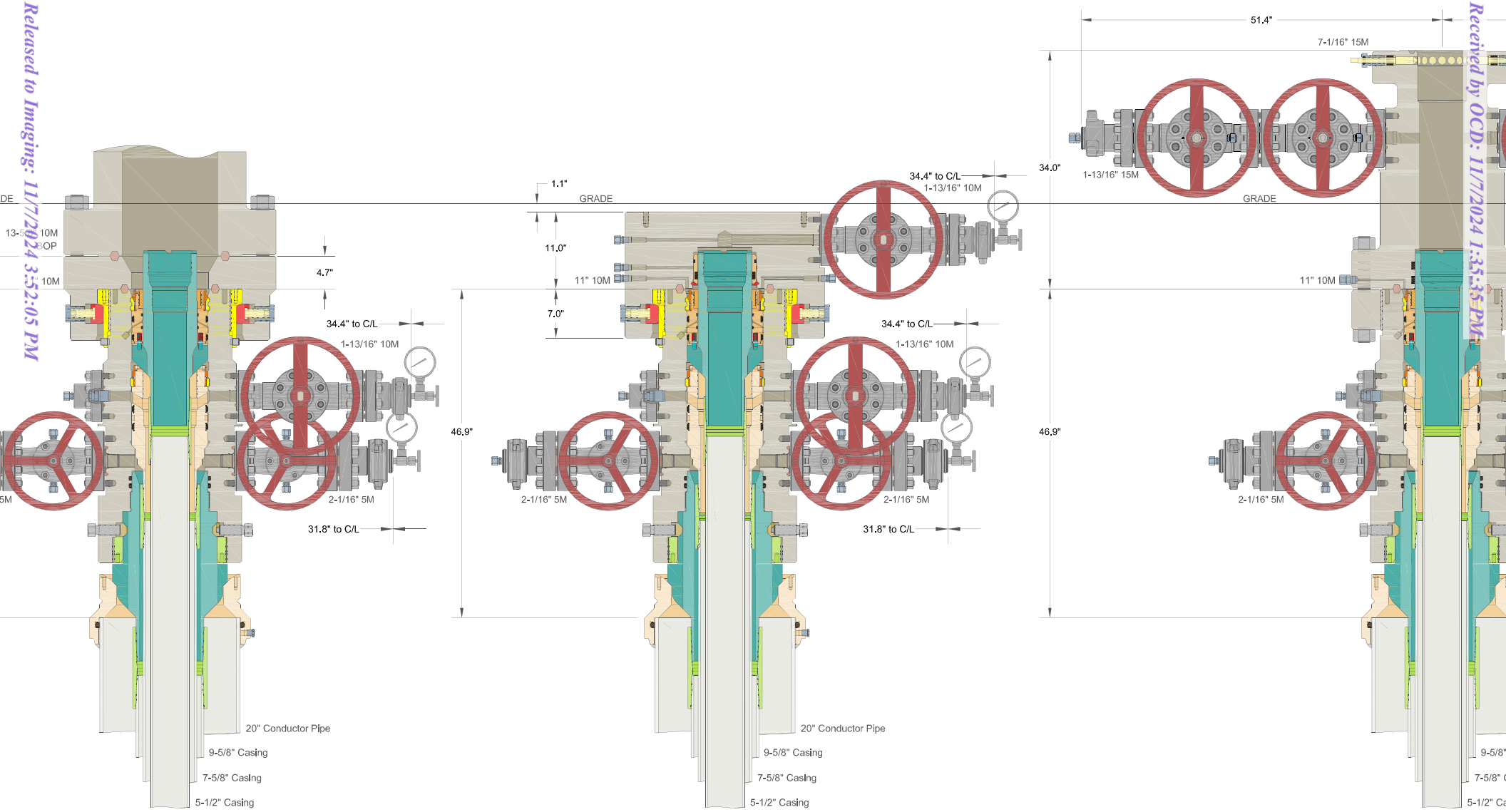
15700.000	90.000	179.657	10384.997	51.165	0.000	53.305	-0.000	51.165	0.000	0.000	53.469	42.911	-7.885	MWD+IFR1+MS
15800.000	90.000	179.657	10384.997	51.837	0.000	53.852	-0.000	51.837	0.000	0.000	54.008	42.947	-7.547	MWD+IFR1+MS
15900.000	90.000	179.657	10384.997	52.512	0.000	54.404	-0.000	52.512	0.000	0.000	54.553	42.983	-7.236	MWD+IFR1+MS
16000.000	90.000	179.657	10384.997	53.189	0.000	54.961	-0.000	53.189	0.000	0.000	55.103	43.020	-6.948	MWD+IFR1+MS
16100.000	90.000	179.657	10384.997	53.870	0.000	55.523	-0.000	53.870	0.000	0.000	55.659	43.056	-6.680	MWD+IFR1+MS
16200.000	90.000	179.657	10384.997	54.553	0.000	56.090	-0.000	54.553	0.000	0.000	56.220	43.092	-6.432	MWD+IFR1+MS
16300.000	90.000	179.657	10384.997	55.240	0.000	56.661	-0.000	55.240	0.000	0.000	56.786	43.129	-6.200	MWD+IFR1+MS
16400.000	90.000	179.657	10384.997	55.928	0.000	57.237	-0.000	55.928	0.000	0.000	57.357	43.166	-5.984	MWD+IFR1+MS
16500.000	90.000	179.657	10384.997	56.620	0.000	57.818	-0.000	56.620	0.000	0.000	57.933	43.203	-5.782	MWD+IFR1+MS
16600.000	90.000	179.657	10384.997	57.313	0.000	58.402	-0.000	57.313	0.000	0.000	58.514	43.240	-5.592	MWD+IFR1+MS
16700.000	90.000	179.657	10384.997	58.009	0.000	58.991	-0.000	58.009	0.000	0.000	59.098	43.277	-5.414	MWD+IFR1+MS
16800.000	90.000	179.657	10384.997	58.707	0.000	59.584	-0.000	58.707	0.000	0.000	59.687	43.315	-5.247	MWD+IFR1+MS
16900.000	90.000	179.657	10384.997	59.408	0.000	60.181	-0.000	59.408	0.000	0.000	60.281	43.353	-5.089	MWD+IFR1+MS
17000.000	90.000	179.657	10384.997	60.110	0.000	60.782	-0.000	60.110	0.000	0.000	60.878	43.391	-4.940	MWD+IFR1+MS
17100.000	90.000	179.657	10384.997	60.815	0.000	61.386	-0.000	60.815	0.000	0.000	61.479	43.430	-4.800	MWD+IFR1+MS
17200.000	90.000	179.657	10384.997	61.521	0.000	61.994	-0.000	61.521	0.000	0.000	62.084	43.469	-4.667	MWD+IFR1+MS
17300.000	90.000	179.657	10384.997	62.229	0.000	62.605	-0.000	62.229	0.000	0.000	62.692	43.508	-4.541	MWD+IFR1+MS
17400.000	90.000	179.657	10384.997	62.939	0.000	63.219	-0.000	62.939	0.000	0.000	63.304	43.548	-4.422	MWD+IFR1+MS
17500.000	90.000	179.657	10384.997	63.651	0.000	63.837	-0.000	63.651	0.000	0.000	63.919	43.588	-4.308	MWD+IFR1+MS
17600.000	90.000	179.657	10384.997	64.365	0.000	64.458	-0.000	64.365	0.000	0.000	64.538	43.628	-4.200	MWD+IFR1+MS
17700.000	90.000	179.657	10384.997	65.080	0.000	65.083	-0.000	65.080	0.000	0.000	65.160	43.669	-4.098	MWD+IFR1+MS
17800.000	90.000	179.657	10384.997	65.797	0.000	65.710	-0.000	65.797	0.000	0.000	65.784	43.711	-4.000	MWD+IFR1+MS
17900.000	90.000	179.657	10384.997	66.515	0.000	66.340	-0.000	66.515	0.000	0.000	66.412	43.752	-3.907	MWD+IFR1+MS
18000.000	90.000	179.657	10384.997	67.235	0.000	66.973	-0.000	67.235	0.000	0.000	67.043	43.794	-3.818	MWD+IFR1+MS
18100.000	90.000	179.657	10384.997	67.956	0.000	67.608	-0.000	67.956	0.000	0.000	67.677	43.837	-3.733	MWD+IFR1+MS
18200.000	90.000	179.657	10384.997	68.679	0.000	68.247	-0.000	68.679	0.000	0.000	68.313	43.880	-3.651	MWD+IFR1+MS
18300.000	90.000	179.657	10384.997	69.403	0.000	68.887	-0.000	69.403	0.000	0.000	68.952	43.923	-3.573	MWD+IFR1+MS
18400.000	90.000	179.657	10384.997	70.128	0.000	69.531	-0.000	70.128	0.000	0.000	69.594	43.967	-3.499	MWD+IFR1+MS
18500.000	90.000	179.657	10384.997	70.855	0.000	70.177	-0.000	70.855	0.000	0.000	70.238	44.011	-3.427	MWD+IFR1+MS
18600.000	90.000	179.657	10384.997	71.583	0.000	70.825	-0.000	71.583	0.000	0.000	70.885	44.055	-3.359	MWD+IFR1+MS
18700.000	90.000	179.657	10384.997	72.312	0.000	71.475	-0.000	72.312	0.000	0.000	71.534	44.100	-3.293	MWD+IFR1+MS
18800.000	90.000	179.657	10384.997	73.042	0.000	72.128	-0.000	73.042	0.000	0.000	72.186	44.146	-3.230	MWD+IFR1+MS
18900.000	90.000	179.657	10384.997	73.773	0.000	72.783	-0.000	73.773	0.000	0.000	72.839	44.192	-3.169	MWD+IFR1+MS

19000.000	90.000	179.657	10384.997	74.505	0.000	73.440	-0.000	74.505	0.000	0.000	73.495	44.238	-3.110	MWD+IFR1+MS
19100.000	90.000	179.657	10384.997	75.239	0.000	74.100	-0.000	75.239	0.000	0.000	74.153	44.285	-3.054	MWD+IFR1+MS
19200.000	90.000	179.657	10384.997	75.973	0.000	74.761	-0.000	75.973	0.000	0.000	74.813	44.332	-2.999	MWD+IFR1+MS
19300.000	90.000	179.657	10384.997	76.709	0.000	75.424	-0.000	76.709	0.000	0.000	75.475	44.380	-2.947	MWD+IFR1+MS
19400.000	90.000	179.657	10384.997	77.445	0.000	76.089	-0.000	77.445	0.000	0.000	76.139	44.428	-2.897	MWD+IFR1+MS
19500.000	90.000	179.657	10384.997	78.182	0.000	76.756	-0.000	78.182	0.000	0.000	76.805	44.476	-2.848	MWD+IFR1+MS
19600.000	90.000	179.657	10384.997	78.921	0.000	77.425	-0.000	78.921	0.000	0.000	77.473	44.525	-2.801	MWD+IFR1+MS
19700.000	90.000	179.657	10384.997	79.660	0.000	78.096	-0.000	79.660	0.000	0.000	78.143	44.575	-2.755	MWD+IFR1+MS
19800.000	90.000	179.657	10384.997	80.400	0.000	78.768	-0.000	80.400	0.000	0.000	78.814	44.625	-2.712	MWD+IFR1+MS
19900.000	90.000	179.657	10384.997	81.141	0.000	79.442	-0.000	81.141	0.000	0.000	79.487	44.675	-2.669	MWD+IFR1+MS
20000.000	90.000	179.657	10384.997	81.882	0.000	80.118	-0.000	81.882	0.000	0.000	80.162	44.726	-2.628	MWD+IFR1+MS
20100.000	90.000	179.657	10384.997	82.625	0.000	80.795	-0.000	82.625	0.000	0.000	80.838	44.777	-2.588	MWD+IFR1+MS
20200.000	90.000	179.657	10384.997	83.368	0.000	81.474	-0.000	83.368	0.000	0.000	81.516	44.829	-2.550	MWD+IFR1+MS
20300.000	90.000	179.657	10384.997	84.112	0.000	82.155	-0.000	84.112	0.000	0.000	82.196	44.881	-2.512	MWD+IFR1+MS
20400.000	90.000	179.657	10384.997	84.857	0.000	82.836	-0.000	84.857	0.000	0.000	82.877	44.933	-2.476	MWD+IFR1+MS
20500.000	90.000	179.657	10384.997	85.602	0.000	83.520	-0.000	85.602	0.000	0.000	83.560	44.986	-2.441	MWD+IFR1+MS
20600.000	90.000	179.657	10384.997	86.348	0.000	84.205	-0.000	86.348	0.000	0.000	84.244	45.040	-2.407	MWD+IFR1+MS
20700.000	90.000	179.657	10384.997	87.095	0.000	84.891	-0.000	87.095	0.000	0.000	84.929	45.093	-2.374	MWD+IFR1+MS
20800.000	90.000	179.657	10384.997	87.843	0.000	85.578	-0.000	87.843	0.000	0.000	85.616	45.148	-2.342	MWD+IFR1+MS
20900.000	90.000	179.657	10384.997	88.591	0.000	86.267	-0.000	88.591	0.000	0.000	86.304	45.202	-2.311	MWD+IFR1+MS
21000.000	90.000	179.657	10384.997	89.340	0.000	86.957	-0.000	89.340	0.000	0.000	86.993	45.258	-2.281	MWD+IFR1+MS
21100.000	90.000	179.657	10384.997	90.089	0.000	87.648	-0.000	90.089	0.000	0.000	87.684	45.313	-2.251	MWD+IFR1+MS
21200.000	90.000	179.657	10384.997	90.839	0.000	88.341	-0.000	90.839	0.000	0.000	88.376	45.369	-2.223	MWD+IFR1+MS
21300.000	90.000	179.657	10384.997	91.589	0.000	89.035	-0.000	91.589	0.000	0.000	89.069	45.426	-2.195	MWD+IFR1+MS
21400.000	90.000	179.657	10384.997	92.341	0.000	89.730	-0.000	92.341	0.000	0.000	89.763	45.483	-2.168	MWD+IFR1+MS
21500.000	90.000	179.657	10384.997	93.092	0.000	90.426	-0.000	93.092	0.000	0.000	90.459	45.540	-2.141	MWD+IFR1+MS
21600.000	90.000	179.657	10384.997	93.845	0.000	91.123	-0.000	93.845	0.000	0.000	91.155	45.598	-2.116	MWD+IFR1+MS
21700.000	90.000	179.657	10384.997	94.597	0.000	91.821	-0.000	94.597	0.000	0.000	91.853	45.656	-2.091	MWD+IFR1+MS
21800.000	90.000	179.657	10384.997	95.351	0.000	92.520	-0.000	95.351	0.000	0.000	92.552	45.715	-2.066	MWD+IFR1+MS
21900.000	90.000	179.657	10384.997	96.104	0.000	93.221	-0.000	96.104	0.000	0.000	93.252	45.774	-2.043	MWD+IFR1+MS
22000.000	90.000	179.657	10384.997	96.859	0.000	93.922	-0.000	96.859	0.000	0.000	93.953	45.833	-2.020	MWD+IFR1+MS
22100.000	90.000	179.657	10384.997	97.613	0.000	94.624	-0.000	97.613	0.000	0.000	94.655	45.893	-1.997	MWD+IFR1+MS
22200.000	90.000	179.657	10384.997	98.369	0.000	95.328	-0.000	98.369	0.000	0.000	95.358	45.954	-1.975	MWD+IFR1+MS

22300.000	90.000	179.657	10384.997	99.124	0.000	96.032	-0.000	99.124	0.000	0.000	96.061	46.014	-1.954	MWD+IFR1+MS
22400.000	90.000	179.657	10384.997	99.880	0.000	96.737	-0.000	99.880	0.000	0.000	96.766	46.076	-1.933	MWD+IFR1+MS
22500.000	90.000	179.657	10384.997	100.637	0.000	97.444	-0.000	100.637	0.000	0.000	97.472	46.137	-1.912	MWD+IFR1+MS
22600.000	90.000	179.657	10384.997	101.394	0.000	98.151	-0.000	101.394	0.000	0.000	98.179	46.199	-1.892	MWD+IFR1+MS
22700.000	90.000	179.657	10384.997	102.151	0.000	98.858	-0.000	102.151	0.000	0.000	98.886	46.262	-1.873	MWD+IFR1+MS
22800.000	90.000	179.657	10384.997	102.909	0.000	99.567	-0.000	102.909	0.000	0.000	99.594	46.325	-1.854	MWD+IFR1+MS
22900.000	90.000	179.657	10384.997	103.667	0.000	100.277	-0.000	103.667	0.000	0.000	100.304	46.388	-1.835	MWD+IFR1+MS
23000.000	90.000	179.657	10384.997	104.426	0.000	100.987	-0.000	104.426	0.000	0.000	101.014	46.452	-1.817	MWD+IFR1+MS
23100.000	90.000	179.657	10384.997	105.185	0.000	101.699	-0.000	105.185	0.000	0.000	101.725	46.516	-1.799	MWD+IFR1+MS
23200.000	90.000	179.657	10384.997	105.944	0.000	102.411	-0.000	105.944	0.000	0.000	102.436	46.581	-1.782	MWD+IFR1+MS
23220.400	90.000	179.657	10384.997	106.099	0.000	102.555	-0.000	106.099	0.000	0.000	102.581	46.594	-1.779	MWD+IFR1+MS

Plan Targets Poker Lake Unit 22 DTD South 101H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	10596.66	440456.30	641437.20	6947.00	RECTANGLE
SHL 5	10329.91	439638.51	641296.15	5984.32	RECTANGLE
LTP 1	23129.90	427472.80	641515.00	6947.00	RECTANGLE
BHL 1	23219.90	427382.80	641515.80	6947.00	RECTANGLE



U. S. Steel Tubular Products

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

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

UNCONTROLLED

Notes

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

U. S. Steel Tubular Products
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Spring, Texas 77380

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

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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10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
   a. SIDPP & SICP
   b. Pit gain
   c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

a. Sound alarm (alert crew)
b. Stab crossover and full-opening safety valve and close
c. Space out string
d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
e. Confirm shut-in
f. Notify toolpusher/company representative
g. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
h. Regroup and identify forward plan
i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
   a. SICP
   b. Pit gain
   c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
   a. Perform flow check. If flowing, continue to (b).
   b. Sound alarm (alert crew)
   c. Stab full-opening safety valve and close
   d. Space out drill string with tool joint just beneath the upper variable bore rams
   e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   f. Confirm shut-in
   g. Notify toolpusher/company representative
   h. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. Stab crossover and full-opening safety valve and close
   c. Space out drill string with upset just beneath the upper variable bore rams
   d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   e. Confirm shut-in
   f. Notify toolpusher/company representative
   g. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
    a. Sound alarm (alert crew)
    b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
    c. If impossible to pull string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram
    f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP & SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

BLACK GOLD®

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NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSUNOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company:	Nabors Industries Inc.
Production description:	74621/66-1531
Sales order #:	529480
Customer reference:	FG1213

TEST OBJECT

Serial number:	H3-012524-1
Lot number:	
Description:	74621/66-1531
Hose ID:	3" 16C CK
Part number:	

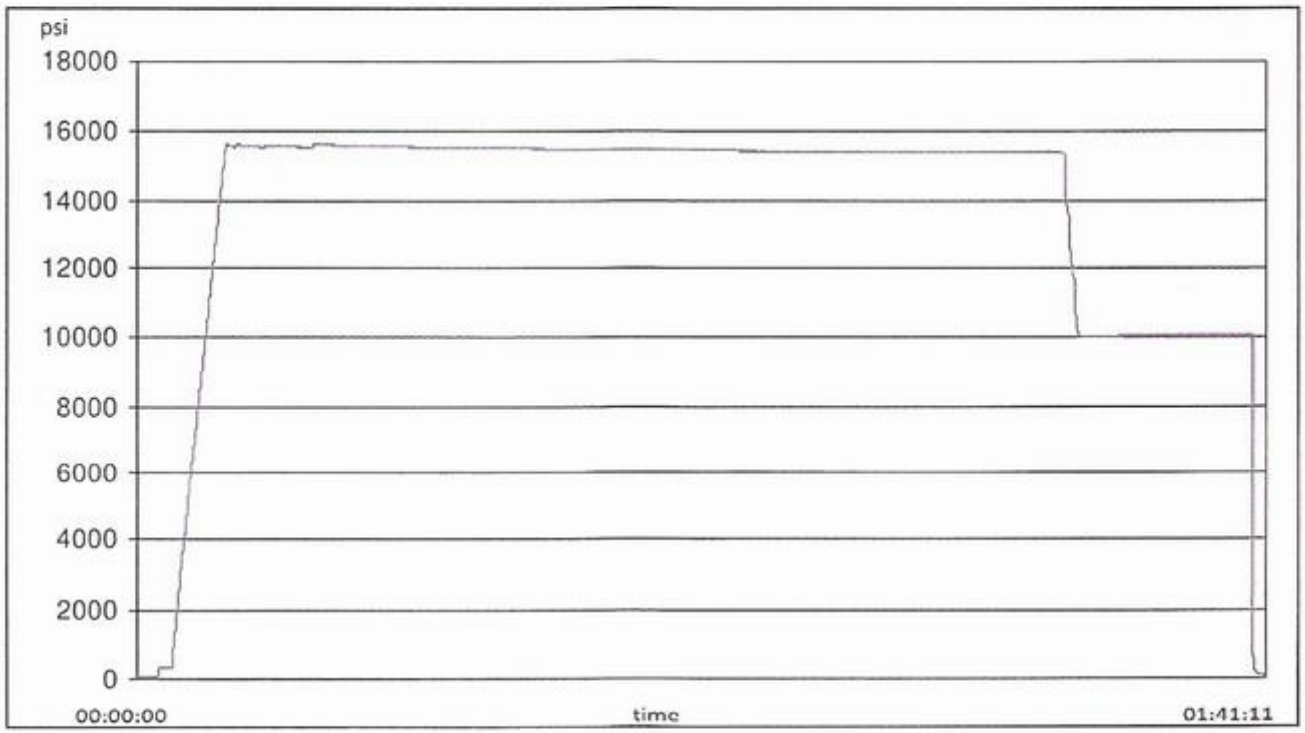
TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	10000.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.00	inch

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

Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Length:	45	feet

Test operator: Travis



H3-15/16

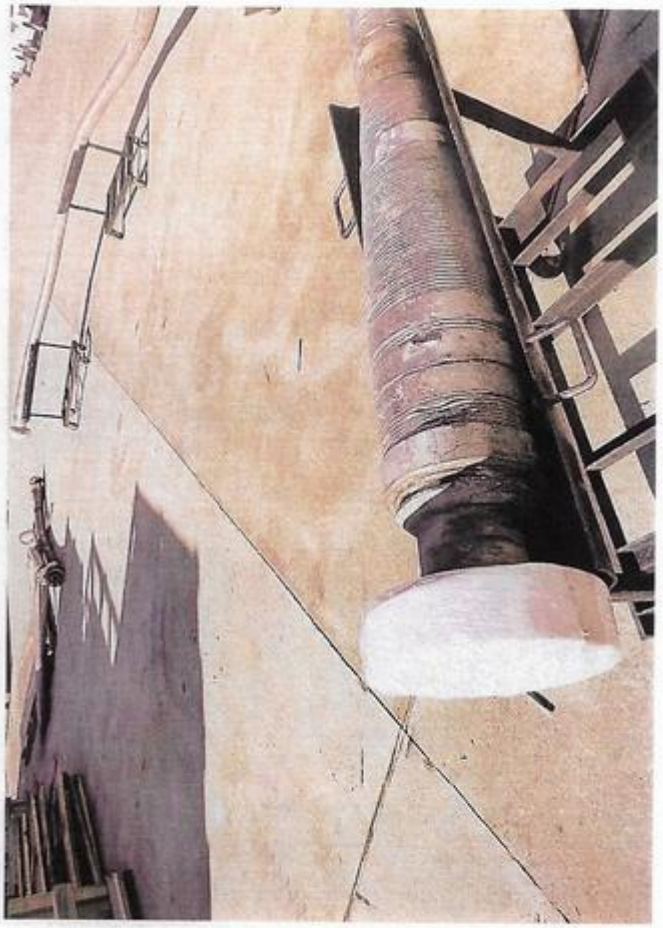
1/25/2024 11:48:06 AM

TEST REPORT

GAUGE TRACEABILITY

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

Comment



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

CONDITIONS

Action 400410

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 400410
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	11/7/2024
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/7/2024