Well Number: 125H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001553221

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2784122

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 01:10

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: 396' FNL & 2276' FWL OF SECTION 21-T24S-R30E 396' FNL & 2277' FWL OF SECTION 21-T24S-R30E FTP: 386' FNL & 2024' FEL OF SECTION 21-T24S-R30E 100' FNL & 2276' FEL OF SECTION 21-T24S-R30E LTP: 329' FNL & 1856' FEL OF SECTION 33-T23S-R30E 2539' FNL & 2272' FEL OF SECTION 33-T24S-R30E BHL: 200' FNL & 1855' FEL OF SECTION 33-T23S-R30E 2629' FNL & 2273' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32833' MD; 11087' TVD (Wolfcamp) to 24034' MD; 11163' TVD (Wolfcamp A). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations. Attachments: C-102, Drilling Plan, Directional Plan, MBS

NOI Attachments

Procedure Description

PLU_21_DTD_125H_Sundry_Documents_20240726150116.pdf

NMNM71016X

US Well Number: 3001553221 **Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

POKER_LAKE_UNIT_21_DTD_125H_COA_20240827165608.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:** JUL 26, 2024 03:01 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND **State:** TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS **BLM POC Title:** Petroleum Engineer

BLM POC Phone: 5752342234 **BLM POC Email Address:** cwalls@blm.gov

Disposition: Approved **Disposition Date:** 09/04/2024

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. NMLC068430

6. If Indian, Allottee or Tribe Name

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/125H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001553221

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: 396' FNL & 2276' FWL OF SECTION 21-T24S-R30E 396' FNL & 2277' FWL OF SECTION 21-T24S-R30E
FTP: 386' FNL & 2024' FEL OF SECTION 21-T24S-R30E 100' FNL & 2276' FEL OF SECTION 21-T24S-R30E
LTP: 329' FNL & 1856' FEL OF SECTION 33-T23S-R30E 2539' FNL & 2272' FEL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 1855' FEL OF SECTION 33-T23S-R30E 2629' FNL & 2273' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 32833 MD; 11087 TVD (Wolfcamp) to 24034 MD; 11163 TVD (Wolfcamp A).

See attached Drilling Plan for updated cement and casing program.

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 07/26/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 09/04/2024

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

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

Attachments: C-102, Drilling Plan, Directional Plan, MBS

Location of Well

0. SHL: NENW / 396 FNL / 2276 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209385 / LONG: -103.887525 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 386 FNL / 2024 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.20942 / LONG: -103.88413 (TVD: 11087 feet, MD: 11493 feet)

BHL: NWNE / 200 FNL / 1855 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268079 / LONG: -103.883589 (TVD: 11087 feet, MD: 32833 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC068430**
LOCATION:	Sec. 21, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	PLU 21 DTD 125H
SURFACE HOLE FOOTAGE:	396'/N & 2217'/W
BOTTOM HOLE FOOTAGE:	2630'/N & 2628'/W

*Changes approved through engineering via **Sundry 2784122**_ on _8-27-2024_. 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	☑ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

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

Operator shall have a double ram and a pipe ram with a 10M pressure rating each.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **880** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with

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

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

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

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6265'**

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 1st Intermediate 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 8/27/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015- 53221	98220	PURPLE SAGE;WOLFCAMP (GAS)

[4] Property Code	[5] Property Name	[6] Well Number
333571	POKER LAKE UNIT 21 DTD	125H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,342'

[10] Surface Location

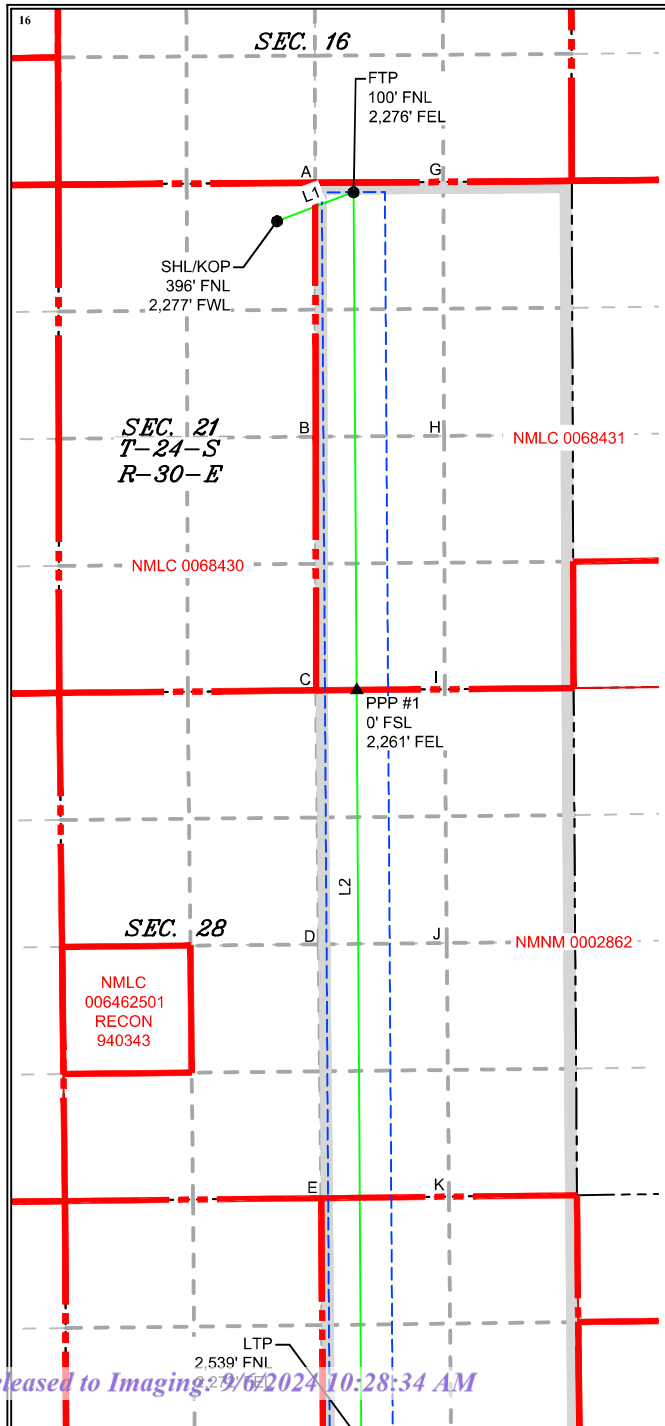
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	24S	30E		396	NORTH	2,277	WEST	EDDY

[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	2,273	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	069°18'05"	851.91'
L2	179°38'24"	13,086.26'

COORDINATE TABLE

SHL/KOP (NAD 83 NME)			SHL/KOP (NAD 27 NME)		
Y =	440,194.3	N	Y =	440,135.0	N
X =	679,218.4	E	X =	638,034.6	E
LAT. =	32.209385	°N	LAT. =	32.209261	°N
LONG. =	103.887525	°W	LONG. =	103.887038	°W

FTP (NAD 83 NME)			FTP (NAD 27 NME)		
Y =	440,495.4	N	Y =	440,436.1	N
X =	680,015.3	E	X =	638,831.6	E
LAT. =	32.210204	°N	LAT. =	32.210079	°N
LONG. =	103.884944	°W	LONG. =	103.884457	°W

PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	435,316.7	N	Y =	435,257.6	N
X =	680,047.9	E	X =	638,864.0	E
LAT. =	32.195968	°N	LAT. =	32.195843	°N
LONG. =	103.884909	°W	LONG. =	103.884423	°W

LTP (NAD 83 NME)			LTP (NAD 27 NME)		
Y =	427,499.4	N	Y =	427,440.5	N
X =	680,097.1	E	X =	638,912.9	E
LAT. =	32.174479	°N	LAT. =	32.174354	°N
LONG. =	103.884855	°W	LONG. =	103.884370	°W

BHL (NAD 83 NME)			BHL (NAD 27 NME)		
Y =	427,409.4	N	Y =	427,350.5	N
X =	680,097.6	E	X =	638,913.4	E
LAT. =	32.174231	°N	LAT. =	32.174107	°N
LONG. =	103.884855	°W	LONG. =	103.884370	°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 7/24/2024
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

Intent [X] As Drilled [ ]

API #
30-15-

Operator Name:	Property Name:	Well Number
XTO PERMAIN OPERATING, LLC.	POKER LAKE UNIT 21 DTD	125H

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	2,276	EAST	EDDY

Latitude	Longitude	NAD
32.210204	-103.884944	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	2,276	EAST	EDDY

Latitude	Longitude	NAD
32.174479	-103.884855	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 125H
Projected TD: 24034' MD / 11163' TVD
SHL: 396' FNL & 2217' FWL , Section 21, T24S, R30E
BHL: 2630' FNL & 2628' FWL , Section 33, T23S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	929'	Water
Top of Salt	1332'	Water
Base of Salt	3525'	Water
Delaware	3719'	Water
Brushy Canyon	6265'	Water/Oil/Gas
Bone Spring	7589'	Water
Avalon	8282'	Water/Oil/Gas
1st Bone Spring	8298'	Water/Oil/Gas
2nd Bone Spring	8883'	Water/Oil/Gas
3rd Bone Spring	9709'	Water/Oil/Gas
Wolfcamp	10894'	Water/Oil/Gas
Wolfcamp X	10915'	Water/Oil/Gas
Wolfcamp Y	10996'	Water/Oil/Gas
Wolfcamp A	11043'	Water/Oil/Gas
Target/Land Curve	11163'	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 @ 1029' (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 10339' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24034 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10039 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0’ – 1029'	9.625	40	J-55	BTC	New	1.61	6.12	15.31
8.75	0’ – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.24	2.92	1.82
8.75	4000' – 10339'	7.625	29.7	HC L-80	Flush Joint	New	1.63	2.31	2.16
6.75	0’ – 10239'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.81	2.00
6.75	10239' - 24034'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.66	2.00

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 20” 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 +/- 1029'

Lead: 240 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 +/- 10339'
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: 370 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6265
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage
Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 700 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: 0
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6265') 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 +/- 24034'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10039 feet
Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10539 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 suface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 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, 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)	Additional Comments
0' - 1029'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
1029'-3719'		Salt Saturated	10.5-11			Fully saturated salt across salado / salt
3719' - 10339'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
10339' - 24034'	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 175 to 195 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 6675 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 21 DTD South 125H

Measured Depth:	24034.05 ft
TVD RKB:	11163.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440135.00 ft
Easting:	638034.60 ft
RKB:	3374.00 ft
Ground Level:	3342.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 125H

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	
1759.01	13.18	69.30	1753.22	26.67	70.60	2.00	0.00	2.00	
4833.57	13.18	69.30	4746.78	274.43	726.40	0.00	0.00	0.00	
5492.59	0.00	0.00	5400.00	301.10	797.00	-2.00	0.00	2.00	
10539.39	0.00	0.00	10446.80	301.10	797.00	0.00	0.00	0.00	
11664.39	90.00	179.64	11163.00	-415.08	801.47	8.00	0.00	8.00	
23944.23	90.00	179.64	11163.00	-12694.69	878.20	0.00	0.00	0.00	LTP 10
24034.05	90.00	179.64	11163.00	-12784.50	878.76	0.00	0.00	0.00	BHL 10

Position Uncertainty Poker Lake Unit 21 DTD South 125H

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	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.531	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	2.634	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	69.304	1199.980	5.077	0.000	4.440	0.000	2.690	0.000	0.000	5.216	4.279	-44.121	MWD+IFR1+MS
1300.000	4.000	69.304	1299.838	5.842	0.000	4.815	0.000	2.750	0.000	0.000	5.878	4.782	-30.145	MWD+IFR1+MS
1400.000	6.000	69.304	1399.452	6.531	0.000	5.187	0.000	2.816	0.000	0.000	6.552	5.185	-22.663	MWD+IFR1+MS
1500.000	8.000	69.304	1498.702	7.164	0.000	5.559	0.000	2.889	0.000	0.000	7.200	5.556	-18.560	MWD+IFR1+MS
1600.000	10.000	69.304	1597.465	7.754	0.000	5.930	0.000	2.971	0.000	0.000	7.815	5.915	-16.067	MWD+IFR1+MS
1700.000	12.000	69.304	1695.623	8.308	0.000	6.302	0.000	3.066	0.000	0.000	8.402	6.272	-14.413	MWD+IFR1+MS
1759.015	13.180	69.304	1753.218	8.504	0.000	6.511	0.000	3.110	0.000	0.000	8.621	6.479	-14.167	MWD+IFR1+MS
1800.000	13.180	69.304	1793.123	8.615	0.000	6.654	0.000	3.139	0.000	0.000	8.731	6.623	-14.163	MWD+IFR1+MS
1900.000	13.180	69.304	1890.489	8.888	0.000	7.017	0.000	3.221	0.000	0.000	8.998	6.985	-13.964	MWD+IFR1+MS
2000.000	13.180	69.304	1987.855	9.180	0.000	7.395	0.000	3.308	0.000	0.000	9.285	7.360	-13.461	MWD+IFR1+MS
2100.000	13.180	69.304	2085.221	9.480	0.000	7.773	0.000	3.398	0.000	0.000	9.579	7.736	-12.961	MWD+IFR1+MS
2200.000	13.180	69.304	2182.586	9.785	0.000	8.153	0.000	3.491	0.000	0.000	9.879	8.113	-12.464	MWD+IFR1+MS
2300.000	13.180	69.304	2279.952	10.097	0.000	8.533	0.000	3.588	0.000	0.000	10.185	8.491	-11.971	MWD+IFR1+MS
2400.000	13.180	69.304	2377.318	10.415	0.000	8.914	0.000	3.686	0.000	0.000	10.497	8.869	-11.480	MWD+IFR1+MS
2500.000	13.180	69.304	2474.684	10.737	0.000	9.296	0.000	3.788	0.000	0.000	10.813	9.248	-10.993	MWD+IFR1+MS
2600.000	13.180	69.304	2572.049	11.064	0.000	9.678	0.000	3.891	0.000	0.000	11.133	9.627	-10.509	MWD+IFR1+MS
2700.000	13.180	69.304	2669.415	11.396	0.000	10.060	0.000	3.997	0.000	0.000	11.458	10.007	-10.028	MWD+IFR1+MS
2800.000	13.180	69.304	2766.781	11.731	0.000	10.443	0.000	4.105	0.000	0.000	11.786	10.388	-9.550	MWD+IFR1+MS
2900.000	13.180	69.304	2864.147	12.069	0.000	10.826	0.000	4.216	0.000	0.000	12.118	10.768	-9.075	MWD+IFR1+MS

3000.000	13.180	69.304	2961.512	12.411	0.000	11.210	0.000	4.328	0.000	0.000	12.453	11.150	-8.602	MWD+IFR1+MS
3100.000	13.180	69.304	3058.878	12.756	0.000	11.594	0.000	4.441	0.000	0.000	12.790	11.531	-8.131	MWD+IFR1+MS
3200.000	13.180	69.304	3156.244	13.103	0.000	11.978	0.000	4.557	0.000	0.000	13.131	11.913	-7.663	MWD+IFR1+MS
3300.000	13.180	69.304	3253.609	13.454	0.000	12.362	0.000	4.674	0.000	0.000	13.473	12.295	-7.197	MWD+IFR1+MS
3400.000	13.180	69.304	3350.975	13.806	0.000	12.747	0.000	4.793	0.000	0.000	13.818	12.677	-6.733	MWD+IFR1+MS
3500.000	13.180	69.304	3448.341	14.160	0.000	13.131	0.000	4.914	0.000	0.000	14.165	13.060	-6.270	MWD+IFR1+MS
3600.000	13.180	69.304	3545.707	14.517	0.000	13.516	0.000	5.036	0.000	0.000	14.514	13.443	-5.810	MWD+IFR1+MS
3700.000	13.180	69.304	3643.072	14.875	0.000	13.901	0.000	5.160	0.000	0.000	14.865	13.826	-5.351	MWD+IFR1+MS
3800.000	13.180	69.304	3740.438	15.235	0.000	14.286	0.000	5.286	0.000	0.000	15.217	14.209	-4.893	MWD+IFR1+MS
3900.000	13.180	69.304	3837.804	15.597	0.000	14.672	0.000	5.413	0.000	0.000	15.571	14.593	-4.436	MWD+IFR1+MS
4000.000	13.180	69.304	3935.170	15.960	0.000	15.057	0.000	5.541	0.000	0.000	15.927	14.976	-3.980	MWD+IFR1+MS
4100.000	13.180	69.304	4032.535	16.325	0.000	15.443	0.000	5.671	0.000	0.000	16.283	15.360	-3.525	MWD+IFR1+MS
4200.000	13.180	69.304	4129.901	16.691	0.000	15.828	0.000	5.803	0.000	0.000	16.641	15.744	-3.070	MWD+IFR1+MS
4300.000	13.180	69.304	4227.267	17.058	0.000	16.214	0.000	5.936	0.000	0.000	17.001	16.128	-2.615	MWD+IFR1+MS
4400.000	13.180	69.304	4324.633	17.426	0.000	16.600	0.000	6.071	0.000	0.000	17.361	16.512	-2.161	MWD+IFR1+MS
4500.000	13.180	69.304	4421.998	17.796	0.000	16.986	0.000	6.207	0.000	0.000	17.722	16.897	-1.707	MWD+IFR1+MS
4600.000	13.180	69.304	4519.364	18.166	0.000	17.372	0.000	6.345	0.000	0.000	18.085	17.281	-1.252	MWD+IFR1+MS
4700.000	13.180	69.304	4616.730	18.537	0.000	17.758	0.000	6.484	0.000	0.000	18.448	17.666	-0.797	MWD+IFR1+MS
4800.000	13.180	69.304	4714.096	18.910	0.000	18.144	0.000	6.625	0.000	0.000	18.812	18.051	-0.340	MWD+IFR1+MS
4833.571	13.180	69.304	4746.782	19.032	0.000	18.271	0.000	6.672	0.000	0.000	18.930	18.179	-0.349	MWD+IFR1+MS
4900.000	11.852	69.304	4811.631	19.303	0.000	18.521	0.000	6.768	0.000	0.000	19.171	18.431	-0.425	MWD+IFR1+MS
5000.000	9.852	69.304	4909.838	19.770	0.000	18.897	0.000	6.917	0.000	0.000	19.614	18.805	-1.216	MWD+IFR1+MS
5100.000	7.852	69.304	5008.642	20.246	0.000	19.269	0.000	7.062	0.000	0.000	20.095	19.173	-2.085	MWD+IFR1+MS
5200.000	5.852	69.304	5107.923	20.688	0.000	19.633	0.000	7.197	0.000	0.000	20.567	19.533	-2.756	MWD+IFR1+MS
5300.000	3.852	69.304	5207.559	21.096	0.000	19.991	0.000	7.325	0.000	0.000	21.029	19.885	-3.277	MWD+IFR1+MS
5400.000	1.852	69.304	5307.430	21.469	0.000	20.341	0.000	7.446	0.000	0.000	21.482	20.230	-3.680	MWD+IFR1+MS
5492.586	0.000	0.000	5400.000	20.578	0.000	21.805	0.000	7.555	0.000	0.000	21.815	20.567	-5.296	MWD+IFR1+MS
5500.000	0.000	0.000	5407.414	20.602	0.000	21.827	0.000	7.563	0.000	0.000	21.838	20.591	-5.297	MWD+IFR1+MS
5600.000	0.000	0.000	5507.414	20.937	0.000	22.133	0.000	7.679	0.000	0.000	22.143	20.926	-5.384	MWD+IFR1+MS
5700.000	0.000	0.000	5607.414	21.278	0.000	22.445	0.000	7.798	0.000	0.000	22.457	21.266	-5.751	MWD+IFR1+MS
5800.000	0.000	0.000	5707.414	21.620	0.000	22.759	0.000	7.919	0.000	0.000	22.772	21.606	-6.124	MWD+IFR1+MS
5900.000	0.000	0.000	5807.414	21.962	0.000	23.074	0.000	8.042	0.000	0.000	23.088	21.947	-6.501	MWD+IFR1+MS
6000.000	0.000	0.000	5907.414	22.305	0.000	23.390	0.000	8.168	0.000	0.000	23.406	22.289	-6.883	MWD+IFR1+MS

6100.000	0.000	0.000	6007.414	22.649	0.000	23.708	0.000	8.296	0.000	0.000	23.725	22.631	-7.270	MWD+IFR1+MS
6200.000	0.000	0.000	6107.414	22.993	0.000	24.027	0.000	8.426	0.000	0.000	24.045	22.973	-7.662	MWD+IFR1+MS
6300.000	0.000	0.000	6207.414	23.337	0.000	24.347	0.000	8.560	0.000	0.000	24.367	23.316	-8.059	MWD+IFR1+MS
6400.000	0.000	0.000	6307.414	23.682	0.000	24.667	0.000	8.695	0.000	0.000	24.689	23.659	-8.460	MWD+IFR1+MS
6500.000	0.000	0.000	6407.414	24.027	0.000	24.989	0.000	8.834	0.000	0.000	25.013	24.002	-8.866	MWD+IFR1+MS
6600.000	0.000	0.000	6507.414	24.372	0.000	25.312	0.000	8.975	0.000	0.000	25.338	24.346	-9.277	MWD+IFR1+MS
6700.000	0.000	0.000	6607.414	24.718	0.000	25.636	0.000	9.118	0.000	0.000	25.663	24.690	-9.692	MWD+IFR1+MS
6800.000	0.000	0.000	6707.414	25.064	0.000	25.961	0.000	9.265	0.000	0.000	25.990	25.034	-10.111	MWD+IFR1+MS
6900.000	0.000	0.000	6807.414	25.411	0.000	26.287	0.000	9.414	0.000	0.000	26.317	25.379	-10.535	MWD+IFR1+MS
7000.000	0.000	0.000	6907.414	25.758	0.000	26.613	0.000	9.565	0.000	0.000	26.646	25.724	-10.963	MWD+IFR1+MS
7100.000	0.000	0.000	7007.414	26.105	0.000	26.940	0.000	9.720	0.000	0.000	26.975	26.069	-11.394	MWD+IFR1+MS
7200.000	0.000	0.000	7107.414	26.452	0.000	27.268	0.000	9.877	0.000	0.000	27.305	26.414	-11.830	MWD+IFR1+MS
7300.000	0.000	0.000	7207.414	26.800	0.000	27.597	0.000	10.037	0.000	0.000	27.636	26.760	-12.270	MWD+IFR1+MS
7400.000	0.000	0.000	7307.414	27.148	0.000	27.927	0.000	10.200	0.000	0.000	27.968	27.106	-12.712	MWD+IFR1+MS
7500.000	0.000	0.000	7407.414	27.497	0.000	28.257	0.000	10.366	0.000	0.000	28.300	27.452	-13.159	MWD+IFR1+MS
7600.000	0.000	0.000	7507.414	27.845	0.000	28.588	0.000	10.534	0.000	0.000	28.634	27.798	-13.608	MWD+IFR1+MS
7700.000	0.000	0.000	7607.414	28.194	0.000	28.920	0.000	10.706	0.000	0.000	28.968	28.145	-14.061	MWD+IFR1+MS
7800.000	0.000	0.000	7707.414	28.543	0.000	29.252	0.000	10.880	0.000	0.000	29.302	28.492	-14.516	MWD+IFR1+MS
7900.000	0.000	0.000	7807.414	28.893	0.000	29.585	0.000	11.057	0.000	0.000	29.637	28.838	-14.974	MWD+IFR1+MS
8000.000	0.000	0.000	7907.414	29.242	0.000	29.918	0.000	11.237	0.000	0.000	29.973	29.186	-15.434	MWD+IFR1+MS
8100.000	0.000	0.000	8007.414	29.592	0.000	30.252	0.000	11.420	0.000	0.000	30.310	29.533	-15.897	MWD+IFR1+MS
8200.000	0.000	0.000	8107.414	29.942	0.000	30.587	0.000	11.606	0.000	0.000	30.647	29.880	-16.361	MWD+IFR1+MS
8300.000	0.000	0.000	8207.414	30.292	0.000	30.922	0.000	11.795	0.000	0.000	30.985	30.228	-16.827	MWD+IFR1+MS
8400.000	0.000	0.000	8307.414	30.642	0.000	31.258	0.000	11.986	0.000	0.000	31.323	30.575	-17.295	MWD+IFR1+MS
8500.000	0.000	0.000	8407.414	30.993	0.000	31.594	0.000	12.181	0.000	0.000	31.662	30.923	-17.764	MWD+IFR1+MS
8600.000	0.000	0.000	8507.414	31.343	0.000	31.930	0.000	12.379	0.000	0.000	32.001	31.271	-18.233	MWD+IFR1+MS
8700.000	0.000	0.000	8607.414	31.694	0.000	32.267	0.000	12.580	0.000	0.000	32.341	31.619	-18.704	MWD+IFR1+MS
8800.000	0.000	0.000	8707.414	32.045	0.000	32.605	0.000	12.783	0.000	0.000	32.681	31.968	-19.175	MWD+IFR1+MS
8900.000	0.000	0.000	8807.414	32.397	0.000	32.943	0.000	12.990	0.000	0.000	33.022	32.316	-19.646	MWD+IFR1+MS
9000.000	0.000	0.000	8907.414	32.748	0.000	33.281	0.000	13.200	0.000	0.000	33.363	32.665	-20.117	MWD+IFR1+MS
9100.000	0.000	0.000	9007.414	33.100	0.000	33.620	0.000	13.413	0.000	0.000	33.705	33.013	-20.588	MWD+IFR1+MS
9200.000	0.000	0.000	9107.414	33.451	0.000	33.959	0.000	13.628	0.000	0.000	34.047	33.362	-21.058	MWD+IFR1+MS
9300.000	0.000	0.000	9207.414	33.803	0.000	34.299	0.000	13.847	0.000	0.000	34.390	33.711	-21.528	MWD+IFR1+MS

9400.000	0.000	0.000	9307.414	34.155	0.000	34.639	0.000	14.069	0.000	0.000	34.733	34.060	-21.996	MWD+IFR1+MS
9500.000	0.000	0.000	9407.414	34.507	0.000	34.979	0.000	14.294	0.000	0.000	35.076	34.409	-22.463	MWD+IFR1+MS
9600.000	0.000	0.000	9507.414	34.859	0.000	35.320	0.000	14.522	0.000	0.000	35.420	34.758	-22.929	MWD+IFR1+MS
9700.000	0.000	0.000	9607.414	35.212	0.000	35.661	0.000	14.753	0.000	0.000	35.764	35.107	-23.393	MWD+IFR1+MS
9800.000	0.000	0.000	9707.414	35.564	0.000	36.003	0.000	14.987	0.000	0.000	36.108	35.457	-23.855	MWD+IFR1+MS
9900.000	0.000	0.000	9807.414	35.917	0.000	36.344	0.000	15.225	0.000	0.000	36.453	35.806	-24.314	MWD+IFR1+MS
10000.000	0.000	0.000	9907.414	36.269	0.000	36.686	0.000	15.465	0.000	0.000	36.798	36.156	-24.771	MWD+IFR1+MS
10100.000	0.000	0.000	10007.414	36.622	0.000	37.029	0.000	15.708	0.000	0.000	37.144	36.505	-25.226	MWD+IFR1+MS
10200.000	0.000	0.000	10107.414	36.975	0.000	37.371	0.000	15.955	0.000	0.000	37.490	36.855	-25.677	MWD+IFR1+MS
10300.000	0.000	0.000	10207.414	37.328	0.000	37.714	0.000	16.205	0.000	0.000	37.836	37.205	-26.126	MWD+IFR1+MS
10400.000	0.000	0.000	10307.414	37.681	0.000	38.058	0.000	16.457	0.000	0.000	38.182	37.555	-26.571	MWD+IFR1+MS
10500.000	0.000	0.000	10407.414	38.034	0.000	38.401	0.000	16.713	0.000	0.000	38.529	37.905	-27.013	MWD+IFR1+MS
10539.386	0.000	0.000	10446.800	38.172	0.000	38.535	0.000	16.815	0.000	0.000	38.663	38.042	-27.106	MWD+IFR1+MS
10600.000	4.849	179.642	10507.342	38.209	0.000	38.734	-0.000	16.971	0.000	0.000	38.866	38.271	-28.522	MWD+IFR1+MS
10700.000	12.849	179.642	10606.071	38.446	0.000	39.039	-0.000	17.271	0.000	0.000	39.558	38.881	118.438	MWD+IFR1+MS
10800.000	20.849	179.642	10701.701	38.497	0.000	39.332	-0.000	17.718	0.000	0.000	40.749	39.247	103.214	MWD+IFR1+MS
10900.000	28.849	179.642	10792.369	38.007	0.000	39.606	-0.000	18.364	0.000	0.000	41.842	39.534	99.637	MWD+IFR1+MS
11000.000	36.849	179.642	10876.311	37.049	0.000	39.859	-0.000	19.245	0.000	0.000	42.768	39.789	98.282	MWD+IFR1+MS
11100.000	44.849	179.642	10951.893	35.721	0.000	40.089	-0.000	20.364	0.000	0.000	43.512	40.016	97.739	MWD+IFR1+MS
11200.000	52.849	179.642	11017.644	34.157	0.000	40.294	-0.000	21.700	0.000	0.000	44.076	40.216	97.624	MWD+IFR1+MS
11300.000	60.849	179.642	11072.284	32.522	0.000	40.473	-0.000	23.210	0.000	0.000	44.471	40.387	97.794	MWD+IFR1+MS
11400.000	68.849	179.642	11114.750	31.018	0.000	40.626	-0.000	24.840	0.000	0.000	44.719	40.528	98.182	MWD+IFR1+MS
11500.000	76.849	179.642	11144.215	29.868	0.000	40.750	-0.000	26.532	0.000	0.000	44.853	40.639	98.738	MWD+IFR1+MS
11600.000	84.849	179.642	11160.105	29.288	0.000	40.846	-0.000	28.227	0.000	0.000	44.910	40.719	99.399	MWD+IFR1+MS
11664.386	90.000	179.642	11162.997	28.754	0.000	40.889	-0.000	28.754	0.000	0.000	44.926	40.753	99.818	MWD+IFR1+MS
11700.000	90.000	179.642	11162.997	28.833	0.000	40.910	-0.000	28.833	0.000	0.000	44.933	40.767	100.051	MWD+IFR1+MS
11800.000	90.000	179.642	11162.997	29.013	0.000	40.981	-0.000	29.013	0.000	0.000	44.955	40.820	100.745	MWD+IFR1+MS
11900.000	90.000	179.642	11162.997	29.216	0.000	41.069	-0.000	29.216	0.000	0.000	44.979	40.889	101.490	MWD+IFR1+MS
12000.000	90.000	179.642	11162.997	29.439	0.000	41.171	-0.000	29.439	0.000	0.000	45.006	40.969	102.289	MWD+IFR1+MS
12100.000	90.000	179.642	11162.997	29.681	0.000	41.287	-0.000	29.681	0.000	0.000	45.035	41.061	103.149	MWD+IFR1+MS
12200.000	90.000	179.642	11162.997	29.941	0.000	41.417	-0.000	29.941	0.000	0.000	45.067	41.164	104.079	MWD+IFR1+MS
12300.000	90.000	179.642	11162.997	30.220	0.000	41.560	-0.000	30.220	0.000	0.000	45.103	41.277	105.088	MWD+IFR1+MS
12400.000	90.000	179.642	11162.997	30.516	0.000	41.718	-0.000	30.516	0.000	0.000	45.143	41.402	106.189	MWD+IFR1+MS

12500.000	90.000	179.642	11162.997	30.829	0.000	41.888	-0.000	30.829	0.000	0.000	45.188	41.535	107.392	MWD+IFR1+MS
12600.000	90.000	179.642	11162.997	31.159	0.000	42.072	-0.000	31.159	0.000	0.000	45.237	41.677	108.712	MWD+IFR1+MS
12700.000	90.000	179.642	11162.997	31.505	0.000	42.269	-0.000	31.505	0.000	0.000	45.292	41.827	110.163	MWD+IFR1+MS
12800.000	90.000	179.642	11162.997	31.867	0.000	42.478	-0.000	31.867	0.000	0.000	45.354	41.984	111.759	MWD+IFR1+MS
12900.000	90.000	179.642	11162.997	32.244	0.000	42.701	-0.000	32.244	0.000	0.000	45.424	42.146	113.516	MWD+IFR1+MS
13000.000	90.000	179.642	11162.997	32.635	0.000	42.935	-0.000	32.635	0.000	0.000	45.503	42.313	115.447	MWD+IFR1+MS
13100.000	90.000	179.642	11162.997	33.040	0.000	43.183	-0.000	33.040	0.000	0.000	45.592	42.481	117.562	MWD+IFR1+MS
13200.000	90.000	179.642	11162.997	33.459	0.000	43.442	-0.000	33.459	0.000	0.000	45.694	42.651	119.866	MWD+IFR1+MS
13300.000	90.000	179.642	11162.997	33.891	0.000	43.713	-0.000	33.891	0.000	0.000	45.809	42.819	122.353	MWD+IFR1+MS
13400.000	90.000	179.642	11162.997	34.335	0.000	43.996	-0.000	34.335	0.000	0.000	45.939	42.983	125.008	MWD+IFR1+MS
13500.000	90.000	179.642	11162.997	34.791	0.000	44.290	-0.000	34.791	0.000	0.000	46.087	43.143	127.803	MWD+IFR1+MS
13600.000	90.000	179.642	11162.997	35.259	0.000	44.595	-0.000	35.259	0.000	0.000	46.254	43.295	130.694	MWD+IFR1+MS
13700.000	90.000	179.642	11162.997	35.738	0.000	44.912	-0.000	35.738	0.000	0.000	46.440	43.440	133.628	MWD+IFR1+MS
13800.000	90.000	179.642	11162.997	36.228	0.000	45.239	-0.000	36.228	0.000	0.000	46.648	43.574	-43.453	MWD+IFR1+MS
13900.000	90.000	179.642	11162.997	36.727	0.000	45.577	-0.000	36.727	0.000	0.000	46.876	43.699	-40.606	MWD+IFR1+MS
14000.000	90.000	179.642	11162.997	37.237	0.000	45.925	-0.000	37.237	0.000	0.000	47.125	43.814	-37.880	MWD+IFR1+MS
14100.000	90.000	179.642	11162.997	37.756	0.000	46.283	-0.000	37.756	0.000	0.000	47.395	43.919	-35.311	MWD+IFR1+MS
14200.000	90.000	179.642	11162.997	38.284	0.000	46.650	-0.000	38.284	0.000	0.000	47.684	44.015	-32.922	MWD+IFR1+MS
14300.000	90.000	179.642	11162.997	38.821	0.000	47.028	-0.000	38.821	0.000	0.000	47.991	44.103	-30.723	MWD+IFR1+MS
14400.000	90.000	179.642	11162.997	39.366	0.000	47.415	-0.000	39.366	0.000	0.000	48.315	44.184	-28.715	MWD+IFR1+MS
14500.000	90.000	179.642	11162.997	39.920	0.000	47.811	-0.000	39.920	0.000	0.000	48.656	44.258	-26.890	MWD+IFR1+MS
14600.000	90.000	179.642	11162.997	40.480	0.000	48.215	-0.000	40.480	0.000	0.000	49.011	44.327	-25.236	MWD+IFR1+MS
14700.000	90.000	179.642	11162.997	41.049	0.000	48.629	-0.000	41.049	0.000	0.000	49.381	44.391	-23.740	MWD+IFR1+MS
14800.000	90.000	179.642	11162.997	41.624	0.000	49.051	-0.000	41.624	0.000	0.000	49.763	44.451	-22.386	MWD+IFR1+MS
14900.000	90.000	179.642	11162.997	42.206	0.000	49.481	-0.000	42.206	0.000	0.000	50.158	44.508	-21.160	MWD+IFR1+MS
15000.000	90.000	179.642	11162.997	42.794	0.000	49.919	-0.000	42.794	0.000	0.000	50.564	44.562	-20.048	MWD+IFR1+MS
15100.000	90.000	179.642	11162.997	43.389	0.000	50.365	-0.000	43.389	0.000	0.000	50.981	44.614	-19.038	MWD+IFR1+MS
15200.000	90.000	179.642	11162.997	43.989	0.000	50.819	-0.000	43.989	0.000	0.000	51.409	44.663	-18.118	MWD+IFR1+MS
15300.000	90.000	179.642	11162.997	44.596	0.000	51.280	-0.000	44.596	0.000	0.000	51.846	44.711	-17.278	MWD+IFR1+MS
15400.000	90.000	179.642	11162.997	45.208	0.000	51.748	-0.000	45.208	0.000	0.000	52.292	44.757	-16.509	MWD+IFR1+MS
15500.000	90.000	179.642	11162.997	45.825	0.000	52.224	-0.000	45.825	0.000	0.000	52.748	44.802	-15.804	MWD+IFR1+MS
15600.000	90.000	179.642	11162.997	46.447	0.000	52.706	-0.000	46.447	0.000	0.000	53.211	44.846	-15.155	MWD+IFR1+MS
15700.000	90.000	179.642	11162.997	47.074	0.000	53.195	-0.000	47.074	0.000	0.000	53.683	44.890	-14.556	MWD+IFR1+MS

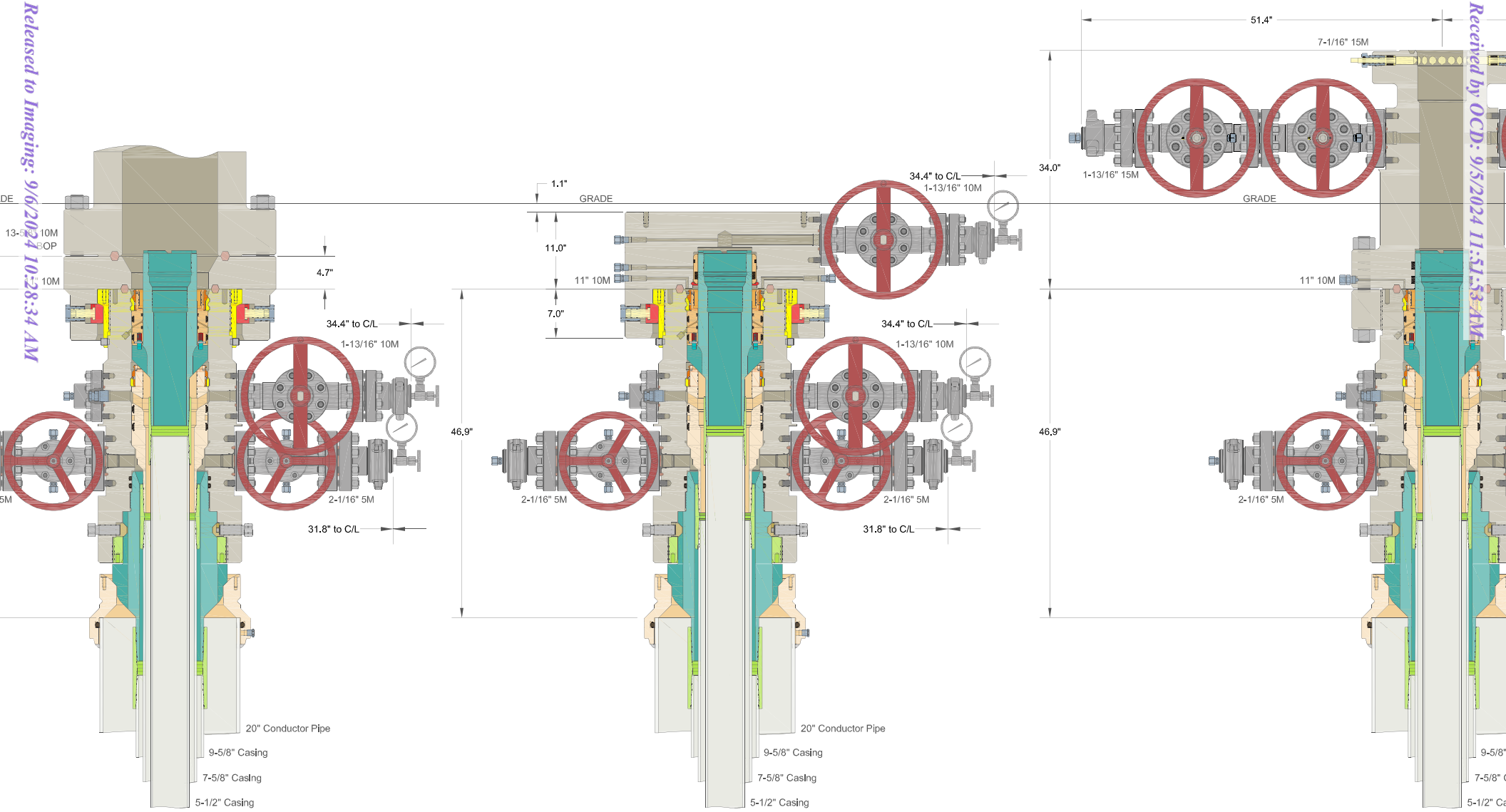
15800.000	90.000	179.642	11162.997	47.706	0.000	53.690	-0.000	47.706	0.000	0.000	54.162	44.932	-14.002	MWD+IFR1+MS
15900.000	90.000	179.642	11162.997	48.342	0.000	54.192	-0.000	48.342	0.000	0.000	54.649	44.975	-13.489	MWD+IFR1+MS
16000.000	90.000	179.642	11162.997	48.982	0.000	54.699	-0.000	48.982	0.000	0.000	55.143	45.016	-13.013	MWD+IFR1+MS
16100.000	90.000	179.642	11162.997	49.627	0.000	55.213	-0.000	49.627	0.000	0.000	55.643	45.058	-12.569	MWD+IFR1+MS
16200.000	90.000	179.642	11162.997	50.275	0.000	55.733	-0.000	50.275	0.000	0.000	56.151	45.099	-12.155	MWD+IFR1+MS
16300.000	90.000	179.642	11162.997	50.928	0.000	56.258	-0.000	50.928	0.000	0.000	56.664	45.140	-11.768	MWD+IFR1+MS
16400.000	90.000	179.642	11162.997	51.584	0.000	56.788	-0.000	51.584	0.000	0.000	57.184	45.181	-11.405	MWD+IFR1+MS
16500.000	90.000	179.642	11162.997	52.244	0.000	57.324	-0.000	52.244	0.000	0.000	57.710	45.223	-11.064	MWD+IFR1+MS
16600.000	90.000	179.642	11162.997	52.907	0.000	57.865	-0.000	52.907	0.000	0.000	58.241	45.264	-10.744	MWD+IFR1+MS
16700.000	90.000	179.642	11162.997	53.573	0.000	58.411	-0.000	53.573	0.000	0.000	58.778	45.305	-10.443	MWD+IFR1+MS
16800.000	90.000	179.642	11162.997	54.243	0.000	58.962	-0.000	54.243	0.000	0.000	59.320	45.346	-10.158	MWD+IFR1+MS
16900.000	90.000	179.642	11162.997	54.915	0.000	59.518	-0.000	54.915	0.000	0.000	59.868	45.388	-9.889	MWD+IFR1+MS
17000.000	90.000	179.642	11162.997	55.591	0.000	60.078	-0.000	55.591	0.000	0.000	60.420	45.429	-9.635	MWD+IFR1+MS
17100.000	90.000	179.642	11162.997	56.269	0.000	60.643	-0.000	56.269	0.000	0.000	60.978	45.471	-9.394	MWD+IFR1+MS
17200.000	90.000	179.642	11162.997	56.950	0.000	61.212	-0.000	56.950	0.000	0.000	61.540	45.513	-9.165	MWD+IFR1+MS
17300.000	90.000	179.642	11162.997	57.634	0.000	61.785	-0.000	57.634	0.000	0.000	62.106	45.556	-8.948	MWD+IFR1+MS
17400.000	90.000	179.642	11162.997	58.321	0.000	62.363	-0.000	58.321	0.000	0.000	62.677	45.598	-8.741	MWD+IFR1+MS
17500.000	90.000	179.642	11162.997	59.009	0.000	62.944	-0.000	59.009	0.000	0.000	63.253	45.641	-8.544	MWD+IFR1+MS
17600.000	90.000	179.642	11162.997	59.700	0.000	63.530	-0.000	59.700	0.000	0.000	63.832	45.684	-8.356	MWD+IFR1+MS
17700.000	90.000	179.642	11162.997	60.394	0.000	64.119	-0.000	60.394	0.000	0.000	64.416	45.728	-8.177	MWD+IFR1+MS
17800.000	90.000	179.642	11162.997	61.089	0.000	64.712	-0.000	61.089	0.000	0.000	65.003	45.772	-8.006	MWD+IFR1+MS
17900.000	90.000	179.642	11162.997	61.787	0.000	65.309	-0.000	61.787	0.000	0.000	65.594	45.816	-7.842	MWD+IFR1+MS
18000.000	90.000	179.642	11162.997	62.487	0.000	65.909	-0.000	62.487	0.000	0.000	66.189	45.861	-7.685	MWD+IFR1+MS
18100.000	90.000	179.642	11162.997	63.189	0.000	66.512	-0.000	63.189	0.000	0.000	66.788	45.906	-7.535	MWD+IFR1+MS
18200.000	90.000	179.642	11162.997	63.893	0.000	67.119	-0.000	63.893	0.000	0.000	67.390	45.951	-7.391	MWD+IFR1+MS
18300.000	90.000	179.642	11162.997	64.598	0.000	67.729	-0.000	64.598	0.000	0.000	67.995	45.997	-7.252	MWD+IFR1+MS
18400.000	90.000	179.642	11162.997	65.306	0.000	68.342	-0.000	65.306	0.000	0.000	68.604	46.043	-7.119	MWD+IFR1+MS
18500.000	90.000	179.642	11162.997	66.015	0.000	68.958	-0.000	66.015	0.000	0.000	69.215	46.090	-6.991	MWD+IFR1+MS
18600.000	90.000	179.642	11162.997	66.726	0.000	69.577	-0.000	66.726	0.000	0.000	69.830	46.137	-6.868	MWD+IFR1+MS
18700.000	90.000	179.642	11162.997	67.438	0.000	70.199	-0.000	67.438	0.000	0.000	70.448	46.185	-6.750	MWD+IFR1+MS
18800.000	90.000	179.642	11162.997	68.152	0.000	70.824	-0.000	68.152	0.000	0.000	71.069	46.233	-6.635	MWD+IFR1+MS
18900.000	90.000	179.642	11162.997	68.868	0.000	71.451	-0.000	68.868	0.000	0.000	71.693	46.281	-6.525	MWD+IFR1+MS
19000.000	90.000	179.642	11162.997	69.585	0.000	72.082	-0.000	69.585	0.000	0.000	72.320	46.330	-6.419	MWD+IFR1+MS

19100.000	90.000	179.642	11162.997	70.304	0.000	72.714	-0.000	70.304	0.000	0.000	72.949	46.379	-6.316	MWD+IFR1+MS
19200.000	90.000	179.642	11162.997	71.024	0.000	73.350	-0.000	71.024	0.000	0.000	73.581	46.428	-6.217	MWD+IFR1+MS
19300.000	90.000	179.642	11162.997	71.745	0.000	73.988	-0.000	71.745	0.000	0.000	74.215	46.479	-6.121	MWD+IFR1+MS
19400.000	90.000	179.642	11162.997	72.468	0.000	74.628	-0.000	72.468	0.000	0.000	74.852	46.529	-6.029	MWD+IFR1+MS
19500.000	90.000	179.642	11162.997	73.192	0.000	75.270	-0.000	73.192	0.000	0.000	75.492	46.580	-5.939	MWD+IFR1+MS
19600.000	90.000	179.642	11162.997	73.917	0.000	75.915	-0.000	73.917	0.000	0.000	76.134	46.632	-5.852	MWD+IFR1+MS
19700.000	90.000	179.642	11162.997	74.643	0.000	76.562	-0.000	74.643	0.000	0.000	76.778	46.683	-5.768	MWD+IFR1+MS
19800.000	90.000	179.642	11162.997	75.371	0.000	77.212	-0.000	75.371	0.000	0.000	77.424	46.736	-5.686	MWD+IFR1+MS
19900.000	90.000	179.642	11162.997	76.099	0.000	77.863	-0.000	76.099	0.000	0.000	78.073	46.789	-5.607	MWD+IFR1+MS
20000.000	90.000	179.642	11162.997	76.829	0.000	78.516	-0.000	76.829	0.000	0.000	78.723	46.842	-5.531	MWD+IFR1+MS
20100.000	90.000	179.642	11162.997	77.560	0.000	79.172	-0.000	77.560	0.000	0.000	79.376	46.895	-5.456	MWD+IFR1+MS
20200.000	90.000	179.642	11162.997	78.292	0.000	79.829	-0.000	78.292	0.000	0.000	80.031	46.950	-5.384	MWD+IFR1+MS
20300.000	90.000	179.642	11162.997	79.025	0.000	80.488	-0.000	79.025	0.000	0.000	80.688	47.004	-5.313	MWD+IFR1+MS
20400.000	90.000	179.642	11162.997	79.759	0.000	81.150	-0.000	79.759	0.000	0.000	81.346	47.059	-5.245	MWD+IFR1+MS
20500.000	90.000	179.642	11162.997	80.494	0.000	81.813	-0.000	80.494	0.000	0.000	82.007	47.115	-5.179	MWD+IFR1+MS
20600.000	90.000	179.642	11162.997	81.229	0.000	82.477	-0.000	81.229	0.000	0.000	82.669	47.171	-5.114	MWD+IFR1+MS
20700.000	90.000	179.642	11162.997	81.966	0.000	83.144	-0.000	81.966	0.000	0.000	83.333	47.227	-5.051	MWD+IFR1+MS
20800.000	90.000	179.642	11162.997	82.704	0.000	83.812	-0.000	82.704	0.000	0.000	83.999	47.284	-4.990	MWD+IFR1+MS
20900.000	90.000	179.642	11162.997	83.442	0.000	84.482	-0.000	83.442	0.000	0.000	84.667	47.341	-4.930	MWD+IFR1+MS
21000.000	90.000	179.642	11162.997	84.181	0.000	85.153	-0.000	84.181	0.000	0.000	85.336	47.399	-4.872	MWD+IFR1+MS
21100.000	90.000	179.642	11162.997	84.922	0.000	85.826	-0.000	84.922	0.000	0.000	86.007	47.458	-4.816	MWD+IFR1+MS
21200.000	90.000	179.642	11162.997	85.662	0.000	86.501	-0.000	85.662	0.000	0.000	86.680	47.516	-4.760	MWD+IFR1+MS
21300.000	90.000	179.642	11162.997	86.404	0.000	87.177	-0.000	86.404	0.000	0.000	87.354	47.576	-4.707	MWD+IFR1+MS
21400.000	90.000	179.642	11162.997	87.147	0.000	87.855	-0.000	87.147	0.000	0.000	88.030	47.635	-4.654	MWD+IFR1+MS
21500.000	90.000	179.642	11162.997	87.890	0.000	88.534	-0.000	87.890	0.000	0.000	88.707	47.695	-4.603	MWD+IFR1+MS
21600.000	90.000	179.642	11162.997	88.634	0.000	89.214	-0.000	88.634	0.000	0.000	89.385	47.756	-4.553	MWD+IFR1+MS
21700.000	90.000	179.642	11162.997	89.378	0.000	89.896	-0.000	89.378	0.000	0.000	90.065	47.817	-4.504	MWD+IFR1+MS
21800.000	90.000	179.642	11162.997	90.124	0.000	90.579	-0.000	90.124	0.000	0.000	90.746	47.878	-4.456	MWD+IFR1+MS
21900.000	90.000	179.642	11162.997	90.869	0.000	91.263	-0.000	90.869	0.000	0.000	91.429	47.940	-4.410	MWD+IFR1+MS
22000.000	90.000	179.642	11162.997	91.616	0.000	91.949	-0.000	91.616	0.000	0.000	92.113	48.003	-4.364	MWD+IFR1+MS
22100.000	90.000	179.642	11162.997	92.363	0.000	92.636	-0.000	92.363	0.000	0.000	92.798	48.065	-4.320	MWD+IFR1+MS
22200.000	90.000	179.642	11162.997	93.111	0.000	93.324	-0.000	93.111	0.000	0.000	93.485	48.129	-4.276	MWD+IFR1+MS
22300.000	90.000	179.642	11162.997	93.860	0.000	94.014	-0.000	93.860	0.000	0.000	94.173	48.192	-4.234	MWD+IFR1+MS

22400.000	90.000	179.642	11162.997	94.609	0.000	94.704	-0.000	94.609	0.000	0.000	94.862	48.257	-4.192	MWD+IFR1+MS
22500.000	90.000	179.642	11162.997	95.358	0.000	95.396	-0.000	95.358	0.000	0.000	95.552	48.321	-4.152	MWD+IFR1+MS
22600.000	90.000	179.642	11162.997	96.108	0.000	96.089	-0.000	96.108	0.000	0.000	96.243	48.386	-4.112	MWD+IFR1+MS
22700.000	90.000	179.642	11162.997	96.859	0.000	96.783	-0.000	96.859	0.000	0.000	96.935	48.452	-4.073	MWD+IFR1+MS
22800.000	90.000	179.642	11162.997	97.610	0.000	97.478	-0.000	97.610	0.000	0.000	97.629	48.518	-4.035	MWD+IFR1+MS
22900.000	90.000	179.642	11162.997	98.362	0.000	98.174	-0.000	98.362	0.000	0.000	98.323	48.584	-3.997	MWD+IFR1+MS
23000.000	90.000	179.642	11162.997	99.114	0.000	98.871	-0.000	99.114	0.000	0.000	99.019	48.651	-3.961	MWD+IFR1+MS
23100.000	90.000	179.642	11162.997	99.867	0.000	99.569	-0.000	99.867	0.000	0.000	99.716	48.718	-3.925	MWD+IFR1+MS
23200.000	90.000	179.642	11162.997	100.620	0.000	100.268	-0.000	100.620	0.000	0.000	100.413	48.786	-3.889	MWD+IFR1+MS
23300.000	90.000	179.642	11162.997	101.374	0.000	100.968	-0.000	101.374	0.000	0.000	101.112	48.854	-3.855	MWD+IFR1+MS
23400.000	90.000	179.642	11162.997	102.128	0.000	101.669	-0.000	102.128	0.000	0.000	101.812	48.923	-3.821	MWD+IFR1+MS
23500.000	90.000	179.642	11162.997	102.883	0.000	102.371	-0.000	102.883	0.000	0.000	102.512	48.992	-3.788	MWD+IFR1+MS
23600.000	90.000	179.642	11162.997	103.638	0.000	103.073	-0.000	103.638	0.000	0.000	103.214	49.061	-3.755	MWD+IFR1+MS
23700.000	90.000	179.642	11162.997	104.394	0.000	103.777	-0.000	104.394	0.000	0.000	103.916	49.131	-3.724	MWD+IFR1+MS
23800.000	90.000	179.642	11162.997	105.150	0.000	104.482	-0.000	105.150	0.000	0.000	104.620	49.201	-3.692	MWD+IFR1+MS
23900.000	90.000	179.642	11162.997	105.906	0.000	105.187	-0.000	105.906	0.000	0.000	105.324	49.272	-3.662	MWD+IFR1+MS
23944.231	90.000	179.642	11162.997	106.240	0.000	105.499	-0.000	106.240	0.000	0.000	105.635	49.303	-3.648	MWD+IFR1+MS
24000.000	90.000	179.642	11162.997	106.662	0.000	105.891	-0.000	106.662	0.000	0.000	106.027	49.343	-3.632	MWD+IFR1+MS
24034.047	90.000	179.642	11162.997	106.919	0.000	106.131	-0.000	106.919	0.000	0.000	106.266	49.367	-3.622	MWD+IFR1+MS

Plan Targets Poker Lake Unit 21 DTD South 125H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 10	11396.67	440436.10	638831.60	7789.00	RECTANGLE
SHL 10	12097.02	440101.74	638038.19	7730.00	RECTANGLE
LTP 10	23944.04	427440.50	638912.90	7789.00	RECTANGLE
BHL 10	24034.04	427350.50	638913.40	7789.00	RECTANGLE



CACTUS WELLHEAD LLC

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	–

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
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

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

U. S. Steel Tubular Products

5.500" 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]

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.

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

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

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®

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

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

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSUNOS

TITLE: QUALITY ASSURANCE

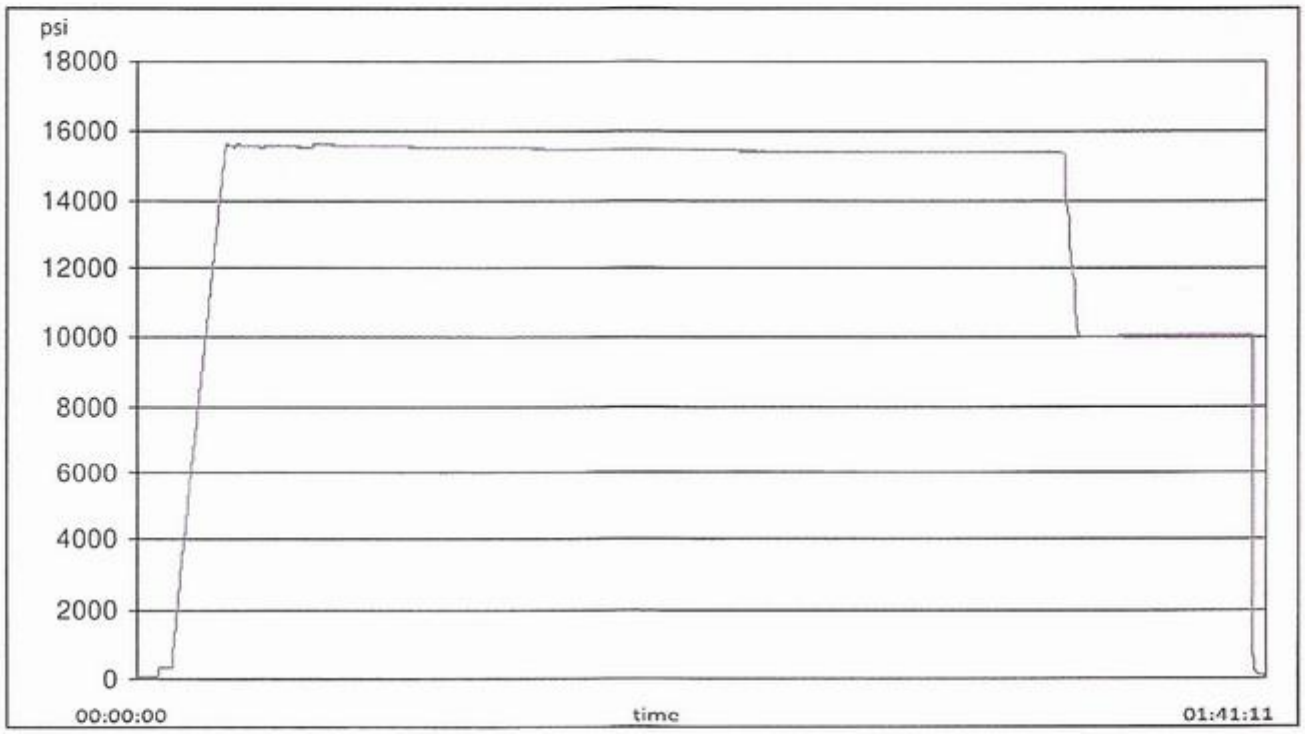
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

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				



H3-15716

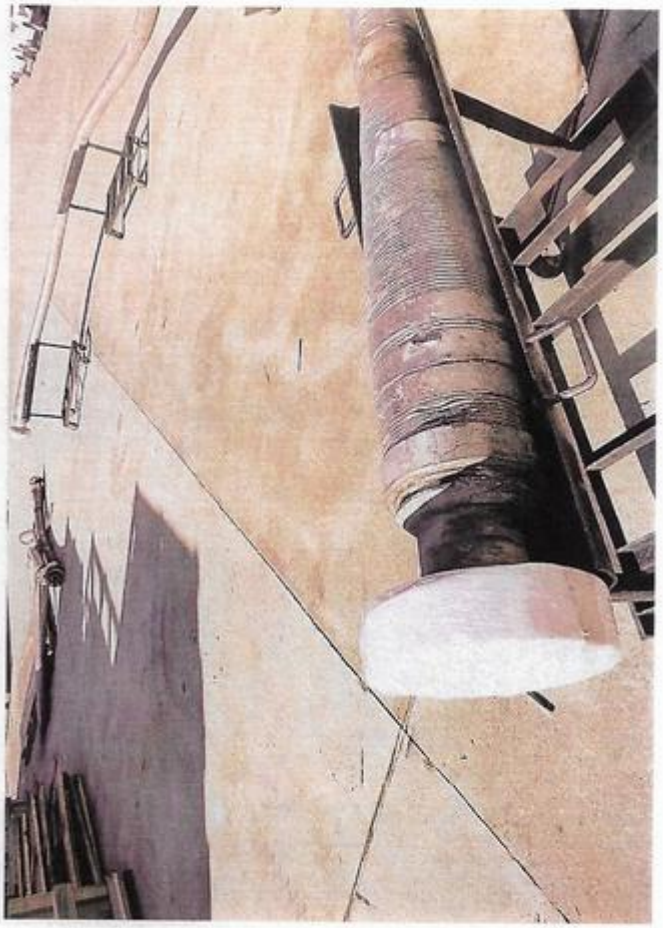
1/25/2024 11:48:06 AM

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



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 380964

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 380964
	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.	9/6/2024