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

Sundry Print Report

01/07/2024

Well Name: POKER LAKE UNIT 22 DTD	**Well Location:** T24S / R30E / SEC 22 / NENE /	**County or Parish/State:**
Well Number: 108H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM068905	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001549862	**Well Status:** Approved Application for Permit to Drill	**Operator:** XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2762132

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/17/2023

Time Sundry Submitted: 06:01

Date proposed operation will begin: 11/27/2023

Procedure Description: XTO Permian Operating LLC. respectfully requests approval to make changes to the Approved APD as follows: SHL, BHL, FTP, LTP, Directional Drilling Plan, Casing and cement change SHL: FROM: 423' FNL & 1325' FEL TO: 328' FNL & 836' FEL of Section 22-T24S-R30E BHL: FROM: 199' FNL & 637' FEL TO: 50' FNL & 670' FEL of Section 3-T24S-R30E FTP: FROM: 100' FNL & 696' FEL TO: 500' FNL & 670' FEL of Section 22-T24S-R30E LTP: FROM: 328' FNL & 638' FEL TO: 100' FNL & 670' FEL of Section 3-T24S-R30E DRILLING AND CASING PLAN: 6" P-110 26# production casing will be run instead of 5-1/2" P-110 23# production casing. ATTACHMENTS: New C-102, Drilling and Casing Plan, Directional Plan, Wellhead Design, Casing Spec Sheet

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_22_DTD_108H_C_102_signed_11_10_2023_20231214154912.pdf

Poker_Lake_Unit_22_DTD_108H_sundry_attachments_20231117060029.pdf

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Conditions of Approval

Additional

Sec_22_24S_30E_NMP_Sundry_2762132_Poker_Lake_Unit_22_DTD_108H_COAs_20231226120628.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: RANELL (RUSTY) KLEIN

Signed on: DEC 14, 2023 03:49 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND **State:** TX

Phone: (432) 620-6700

Email address: RANELL.KLEIN@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: 01/05/2024

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/108H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001549862

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/BONE SPRING

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.)

XTO Permian Operating LLC. respectfully requests approval to make changes to the Approved APD as follows: SHL, BHL, FTP, LTP, Directional Drilling Plan, Casing and cement change

SHL: FROM: 423 FNL & 1325 FEL TO: 328 FNL & 836 FEL of Section 22-T24S-R30E
BHL: FROM: 199 FNL & 637 FEL TO: 50 FNL & 670 FEL of Section 3-T24S-R30E
FTP: FROM: 100 FNL & 696 FEL TO: 500 FNL & 670 FEL of Section 22-T24S-R30E
LTP: FROM: 328 FNL & 638 FEL TO: 100 FNL & 670 FEL of Section 3-T24S-R30E

DRILLING AND CASING PLAN: 6 P-110 26# production casing will be run instead of 5-1/2 P-110 23# production casing.

ATTACHMENTS: New C-102, Drilling and Casing Plan, Directional Plan, Wellhead Design, Casing Spec Sheet

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* RANELL (RUSTY) KLEIN / Ph: (432) 620-6700

Title Regulatory Analyst

Signature (Electronic Submission)

Date 12/14/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 01/05/2024

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

Location of Well

0. SHL: NENE / 423 FNL / 1325 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209418 / LONG: -103.864565 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 1577 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210805 / LONG: -103.872488 (TVD: 11192 feet, MD: 14180 feet)

PPP: SESE / 100 FSL / 1136 FEL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.21086 / LONG: -103.863951 (TVD: 11192 feet, MD: 11540 feet)

PPP: SENE / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 (TVD: 11192 feet, MD: 16820 feet)

BHL: LOT 1 / 199 FNL / 637 FEL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253553 / LONG: -103.86231 (TVD: 11192 feet, MD: 27068 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 22 DTD 108H
LOCATION:	Sec 22-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2762132** on 12/26/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	◉ No	○ Yes		
Potash / WIPP	◉ None	○ Secretary	○ R-111-P	☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☑ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☑ Break Testing	☐ Water Disposal	☐ COM	☑ Unit
Variance	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
		☐ **Batch APD / Sundry**		

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 795 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

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

a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6224'**

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.

Operator has proposed to pump down 13-3/8" X 9-5/8" 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 9-5/8" casing to surface 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.

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

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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 Onshore Oil and Gas Order No. 2.
- 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.

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)

- **Eddy County (API No. / US Well No. contains 30-015-#####)**
  Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
  (575) 361-2822

- **Lea County (API No. / US Well No. contains 30-025-#####)**
  Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
  (575) 689-5981

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
      - Notify the BLM when moving in and removing the Spudder Rig.
      - 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.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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:

    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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.

e. 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.

a. 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).

b. 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.)

c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. 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.

e. The results of the test shall be reported to the appropriate BLM office.

f. 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.

g. 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.

h. 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 part 3170 Subpart 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.

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-49862	98220	Purple Sage; Wolfcamp (gas)

[4] Property Code	[5] Property Name	[6] Well Number
333192	POKER LAKE UNIT 22 DTD	108H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,430'

[10] Surface Location

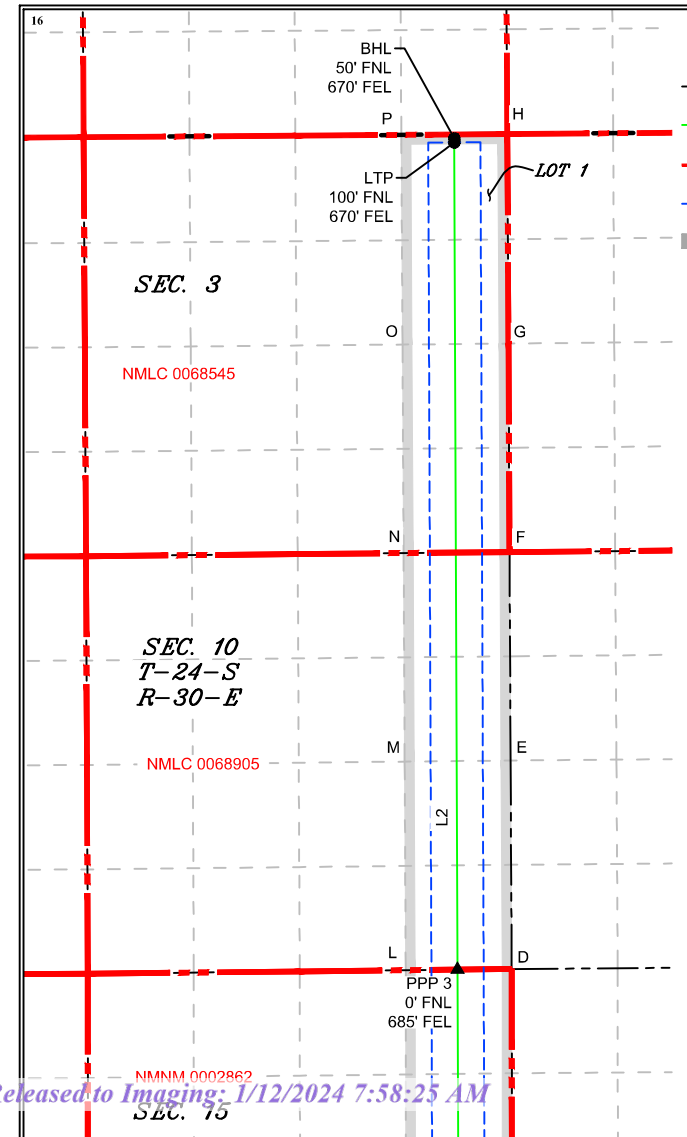
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	24S	30E		328	NORTH	836	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	24S	30E		50	NORTH	670	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
960.84			

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

LOT ACREAGE TABLE
SECTION 3
T-24-S, R-30-E
LOT 1 = 40.42 ACRES

LINE TABLE		
LINE	AZUMITH	LENGTH
L1	135°35'07"	238.15'
L2	359°46'54"	16,276.62'

COORDINATE TABLE

	SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y =	440,337.5 N	440,278.5 N
X =	686,808.6 E	645,624.9 E
LAT. =	32.209690 °N	32.209566 °N
LONG. =	103.862982 °W	103.862496 °W

	FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y =	440,167.40 N	440,108.40 N
X =	686,975.30 E	645,791.50 E
LAT. =	32.20922 °N	32.209096 °N
LONG. =	103.86245 °W	103.86196 °W

	PPP (NAD 83 NME)	PPP (NAD 27 NME)
Y =	440,667.4 N	440,608.4 N
X =	686,973.6 E	645,789.9 E
LAT. =	32.210595 °N	32.210471 °N
LONG. =	103.862444 °W	103.861958 °W

	PPP #2 (NAD 83 NME)	PPP #2 (NAD 27 NME)
Y =	443,307.2 N	443,248.0 N
X =	686,963.5 E	645,779.9 E
LAT. =	32.217851 °N	32.217727 °N
LONG. =	103.862439 °W	103.861953 °W

	PPP #3 (NAD 83 NME)	PPP #3 (NAD 27 NME)
Y =	445,941.0 N	445,881.8 N
X =	686,953.5 E	645,769.9 E
LAT. =	32.225091 °N	32.224967 °N
LONG. =	103.862435 °W	103.861947 °W

	LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y =	456,393.9 N	456,334.4 N
X =	686,913.5 E	645,730.3 E
LAT. =	32.253825 °N	32.253701 °N
LONG. =	103.862416 °W	103.861927 °W

	BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y =	456,443.9 N	456,384.4 N
X =	686,913.2 E	645,730.1 E
LAT. =	32.253962 °N	32.253838 °N
LONG. =	103.862416 °W	103.861927 °W

[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.

Rusty Klein 11-10-23
Signature Date

RUSTY KLEIN
Printed Name

ranell.klein@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.

10-31-2023
Date of Survey

Signature and Seal of Professional Surveyor:

Intent [X] As Drilled [ ]

API #
30015

Operator Name:	Property Name:	Well Number
XTO PERMIAN OPERATING, LLC	Poker Lake Unit 22 DTD	108H

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
A	22	24S	30E		500	North	670	East	Eddy

Latitude	Longitude	NAD
32.20922	103.86245	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
1	3	24S	30E		100	North	670	East	Eddy

Latitude	Longitude	NAD
32.253825	103.862416	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

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 Road, Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

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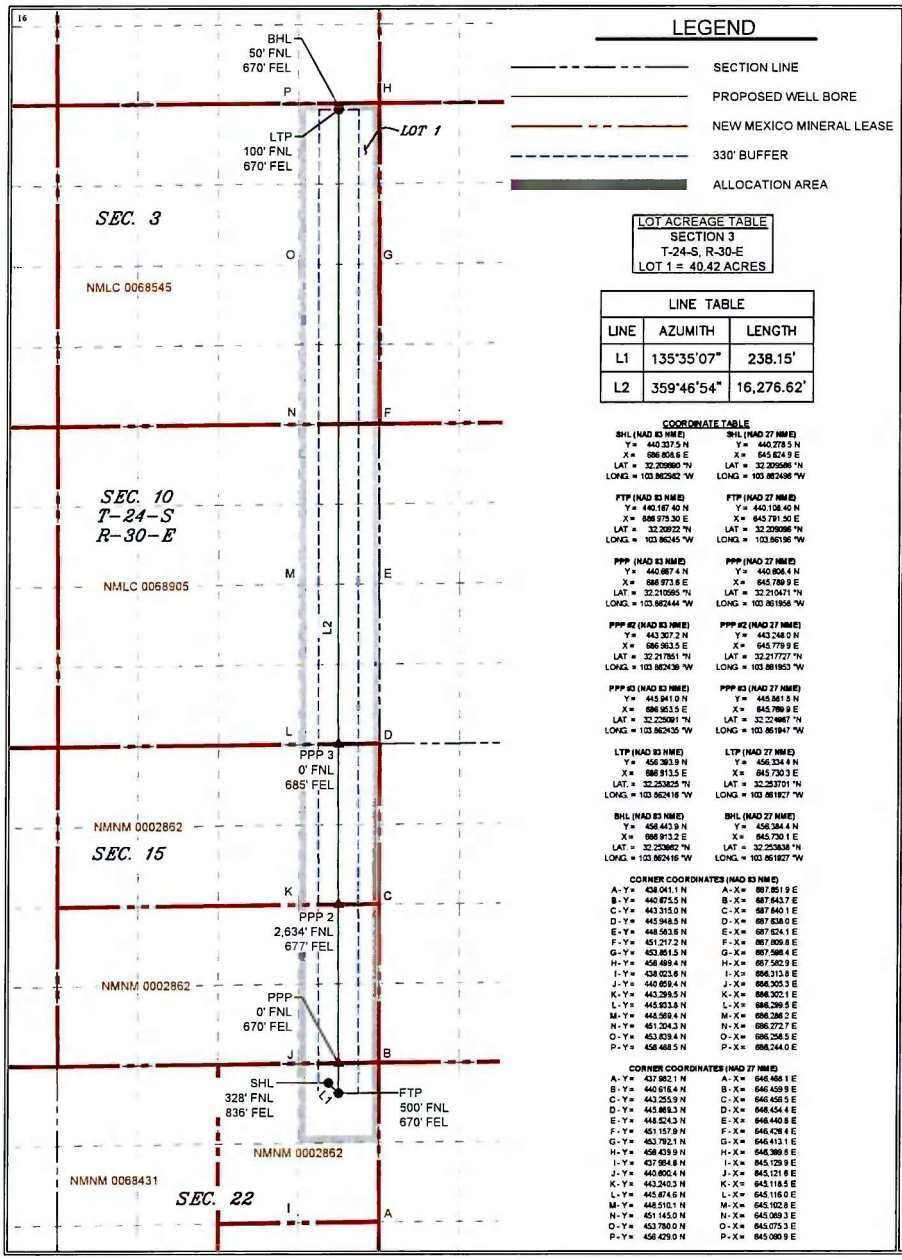

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RUSTY KLEIN
Printed Name

ranell klein@exxonmobil.com
E-mail Address

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10-31-2023
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number

KC/RP 618.013003.08-07

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.08 - PLU 22 DTD - EDDY\Wells\-07 - PLU 22 DTD - 108H\DWG\108H C-102.dwg

Intent [X] As Drilled [ ]

API #
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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 22 DTD 108H
Projected TD: 26492' MD / 9720' TVD
SHL: 328' FNL & 836' FEL , Section 22, T24S, R30E
BHL: 50' FNL & 670' FEL , Section 3, 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	695'	Water
Top of Salt	1044'	Water
Base of Salt	3789'	Water
Delaware	4006'	Water
Brushy Canyon	6224'	Water/Oil/Gas
Bone Spring	7872'	Water
1st Bone Spring	8669'	Water/Oil/Gas
2nd Bone Spring	9215'	Water/Oil/Gas
Target/Land Curve	9720'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 795' (249' 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 9.625 inch casing at 8804' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 26492 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8504 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 795'	13.375	54.5	J-55	BTC	New	1.25	3.22	20.98
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	2.31	2.26	3.59
12.25	4000' – 8804'	9.625	40	HC L-80	BTC	New	1.68	1.91	4.77
8.5	0' – 8704'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.92	1.73
8.5	8704' - 26492'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.62	1.79

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
· XTO requests to not utilize centralizers in the curve and lateral
· 9.625 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
· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom (or equivalent)

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 795'

Lead: 360 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 300 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: 9.625, 40 New casing to be set at +/- 8804'
1st Stage
Optional Lead: 1050 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 740 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6224
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: 2190 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 (6224') 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, 23 New Semi-Flush, RY P-110 casing to be set at +/- 26492'

Lead: 60 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8504 feet
Tail: 3430 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9091 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 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3421 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 9.625, 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. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 795'	17.5	FW/Native	8.5 - 9.0	35-40	NC
795' - 8804'	12.25	FW / Cut Brine / Direct Emulsion	8.5 - 9.5	30-32	NC
8804' - 26492'	8.5	OBM	10.5 - 11.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

A. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 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 5560 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 108H

30-015-49862

Measured Depth:	26492.14 ft
TVD RKB:	9720.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440278.50 ft
Easting:	645624.90 ft
RKB:	3462.00 ft
Ground Level:	3430.00 ft
North Reference:	Grid
Convergence Angle:	0.25 Deg

Plan Sections POKER LAKE UNIT 22 DTD 108H

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	
1676.74	11.53	169.19	1672.85	-56.83	10.86	2.00	0.00	2.00	
5610.49	11.53	169.19	5527.15	-829.46	158.45	0.00	0.00	0.00	
6187.22	0.00	0.00	6100.00	-886.29	169.30	-2.00	0.00	2.00	
9091.03	0.00	0.00	9003.80	-886.29	169.30	0.00	0.00	0.00	
10216.03	90.00	359.78	9720.00	-170.10	166.60	8.00	0.00	8.00	FTP 17
26442.14	90.00	359.78	9720.00	16055.90	105.40	0.00	0.00	0.00	LTP 17
26492.14	90.00	359.78	9720.00	16105.90	105.21	0.00	0.00	0.00	BHL 17

Position Uncertainty POKER LAKE UNIT 22 DTD 108H

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	2.326	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	2.375	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	2.445	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	2.533	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	2.583	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	2.636	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	169.186	1199.980	4.659	0.000	4.692	-0.000	2.693	0.000	0.000	5.068	4.249	125.255	MWD+IFR1+MS
1300.000	4.000	169.186	1299.838	5.475	0.000	5.015	-0.000	2.753	0.000	0.000	5.778	4.672	111.621	MWD+IFR1+MS
1400.000	6.000	169.186	1399.452	6.198	0.000	5.344	-0.000	2.818	0.000	0.000	6.477	5.024	105.615	MWD+IFR1+MS
1500.000	8.000	169.186	1498.702	6.857	0.000	5.676	-0.000	2.892	0.000	0.000	7.136	5.360	102.544	MWD+IFR1+MS
1600.000	10.000	169.186	1597.465	7.468	0.000	6.014	-0.000	2.975	0.000	0.000	7.758	5.694	100.747	MWD+IFR1+MS
1676.737	11.535	169.186	1672.849	7.803	0.000	6.268	-0.000	3.035	0.000	0.000	8.110	5.950	100.154	MWD+IFR1+MS
1700.000	11.535	169.186	1695.642	7.866	0.000	6.343	-0.000	3.048	0.000	0.000	8.172	6.028	100.141	MWD+IFR1+MS
1800.000	11.535	169.186	1793.623	8.138	0.000	6.677	-0.000	3.125	0.000	0.000	8.438	6.369	100.393	MWD+IFR1+MS
1900.000	11.535	169.186	1891.603	8.432	0.000	7.033	-0.000	3.207	0.000	0.000	8.734	6.722	100.964	MWD+IFR1+MS
2000.000	11.535	169.186	1989.583	8.733	0.000	7.394	-0.000	3.292	0.000	0.000	9.037	7.079	101.536	MWD+IFR1+MS
2100.000	11.535	169.186	2087.564	9.041	0.000	7.759	-0.000	3.380	0.000	0.000	9.346	7.440	102.113	MWD+IFR1+MS
2200.000	11.535	169.186	2185.544	9.354	0.000	8.128	-0.000	3.470	0.000	0.000	9.660	7.804	102.692	MWD+IFR1+MS
2300.000	11.535	169.186	2283.524	9.673	0.000	8.499	-0.000	3.563	0.000	0.000	9.979	8.170	103.277	MWD+IFR1+MS
2400.000	11.535	169.186	2381.505	9.996	0.000	8.872	-0.000	3.658	0.000	0.000	10.303	8.539	103.867	MWD+IFR1+MS
2500.000	11.535	169.186	2479.485	10.324	0.000	9.248	-0.000	3.755	0.000	0.000	10.631	8.910	104.462	MWD+IFR1+MS
2600.000	11.535	169.186	2577.466	10.655	0.000	9.625	-0.000	3.854	0.000	0.000	10.963	9.283	105.064	MWD+IFR1+MS
2700.000	11.535	169.186	2675.446	10.990	0.000	10.005	-0.000	3.956	0.000	0.000	11.298	9.657	105.673	MWD+IFR1+MS
2800.000	11.535	169.186	2773.426	11.329	0.000	10.385	-0.000	4.059	0.000	0.000	11.637	10.032	106.288	MWD+IFR1+MS
2900.000	11.535	169.186	2871.407	11.670	0.000	10.767	-0.000	4.164	0.000	0.000	11.978	10.408	106.911	MWD+IFR1+MS

3000.000	11.535	169.186	2969.387	12.014	0.000	11.151	-0.000	4.270	0.000	0.000	12.322	10.786	107.542	MWD+IFR1+MS
3100.000	11.535	169.186	3067.367	12.360	0.000	11.535	-0.000	4.379	0.000	0.000	12.669	11.164	108.180	MWD+IFR1+MS
3200.000	11.535	169.186	3165.348	12.709	0.000	11.921	-0.000	4.488	0.000	0.000	13.018	11.543	108.827	MWD+IFR1+MS
3300.000	11.535	169.186	3263.328	13.059	0.000	12.307	-0.000	4.600	0.000	0.000	13.370	11.923	109.481	MWD+IFR1+MS
3400.000	11.535	169.186	3361.308	13.412	0.000	12.694	-0.000	4.713	0.000	0.000	13.723	12.303	110.144	MWD+IFR1+MS
3500.000	11.535	169.186	3459.289	13.766	0.000	13.082	-0.000	4.828	0.000	0.000	14.078	12.684	110.815	MWD+IFR1+MS
3600.000	11.535	169.186	3557.269	14.122	0.000	13.471	-0.000	4.944	0.000	0.000	14.436	13.065	111.494	MWD+IFR1+MS
3700.000	11.535	169.186	3655.250	14.480	0.000	13.860	-0.000	5.061	0.000	0.000	14.794	13.447	112.182	MWD+IFR1+MS
3800.000	11.535	169.186	3753.230	14.839	0.000	14.250	-0.000	5.180	0.000	0.000	15.155	13.828	112.876	MWD+IFR1+MS
3900.000	11.535	169.186	3851.210	15.199	0.000	14.640	-0.000	5.301	0.000	0.000	15.517	14.211	113.579	MWD+IFR1+MS
4000.000	11.535	169.186	3949.191	15.560	0.000	15.031	-0.000	5.423	0.000	0.000	15.880	14.593	114.288	MWD+IFR1+MS
4100.000	11.535	169.186	4047.171	15.923	0.000	15.422	-0.000	5.546	0.000	0.000	16.245	14.975	115.005	MWD+IFR1+MS
4200.000	11.535	169.186	4145.151	16.287	0.000	15.814	-0.000	5.671	0.000	0.000	16.611	15.358	115.728	MWD+IFR1+MS
4300.000	11.535	169.186	4243.132	16.651	0.000	16.206	-0.000	5.798	0.000	0.000	16.979	15.741	116.456	MWD+IFR1+MS
4400.000	11.535	169.186	4341.112	17.017	0.000	16.598	-0.000	5.926	0.000	0.000	17.347	16.124	117.191	MWD+IFR1+MS
4500.000	11.535	169.186	4439.092	17.383	0.000	16.991	-0.000	6.055	0.000	0.000	17.717	16.507	117.929	MWD+IFR1+MS
4600.000	11.535	169.186	4537.073	17.750	0.000	17.384	-0.000	6.186	0.000	0.000	18.088	16.889	118.672	MWD+IFR1+MS
4700.000	11.535	169.186	4635.053	18.118	0.000	17.777	-0.000	6.319	0.000	0.000	18.460	17.272	119.419	MWD+IFR1+MS
4800.000	11.535	169.186	4733.034	18.487	0.000	18.171	-0.000	6.453	0.000	0.000	18.832	17.655	120.168	MWD+IFR1+MS
4900.000	11.535	169.186	4831.014	18.856	0.000	18.565	-0.000	6.589	0.000	0.000	19.206	18.038	120.919	MWD+IFR1+MS
5000.000	11.535	169.186	4928.994	19.226	0.000	18.959	-0.000	6.727	0.000	0.000	19.581	18.421	121.671	MWD+IFR1+MS
5100.000	11.535	169.186	5026.975	19.597	0.000	19.353	-0.000	6.866	0.000	0.000	19.956	18.804	122.423	MWD+IFR1+MS
5200.000	11.535	169.186	5124.955	19.968	0.000	19.748	-0.000	7.006	0.000	0.000	20.333	19.186	123.175	MWD+IFR1+MS
5300.000	11.535	169.186	5222.935	20.340	0.000	20.142	-0.000	7.149	0.000	0.000	20.710	19.569	123.926	MWD+IFR1+MS
5400.000	11.535	169.186	5320.916	20.712	0.000	20.537	-0.000	7.293	0.000	0.000	21.088	19.951	124.674	MWD+IFR1+MS
5500.000	11.535	169.186	5418.896	21.085	0.000	20.932	-0.000	7.439	0.000	0.000	21.467	20.334	125.420	MWD+IFR1+MS
5600.000	11.535	169.186	5516.876	21.458	0.000	21.328	-0.000	7.587	0.000	0.000	21.846	20.716	126.161	MWD+IFR1+MS
5610.486	11.535	169.186	5527.151	21.496	0.000	21.368	-0.000	7.602	0.000	0.000	21.884	20.756	126.240	MWD+IFR1+MS
5700.000	9.744	169.186	5615.122	21.860	0.000	21.713	-0.000	7.737	0.000	0.000	22.223	21.102	126.381	MWD+IFR1+MS
5800.000	7.744	169.186	5713.955	22.324	0.000	22.095	-0.000	7.890	0.000	0.000	22.659	21.507	124.390	MWD+IFR1+MS
5900.000	5.744	169.186	5813.258	22.765	0.000	22.468	-0.000	8.037	0.000	0.000	23.099	21.904	122.203	MWD+IFR1+MS
6000.000	3.744	169.186	5912.910	23.170	0.000	22.831	-0.000	8.178	0.000	0.000	23.532	22.288	120.151	MWD+IFR1+MS
6100.000	1.744	169.186	6012.790	23.540	0.000	23.185	-0.000	8.313	0.000	0.000	23.959	22.661	118.249	MWD+IFR1+MS

6187.223	0.000	0.000	6100.000	23.945	0.000	23.239	0.000	8.428	0.000	0.000	24.227	22.944	118.305	MWD+IFR1+MS
6200.000	0.000	0.000	6112.777	23.983	0.000	23.277	0.000	8.445	0.000	0.000	24.265	22.983	118.290	MWD+IFR1+MS
6300.000	0.000	0.000	6212.777	24.283	0.000	23.580	0.000	8.576	0.000	0.000	24.563	23.289	118.258	MWD+IFR1+MS
6400.000	0.000	0.000	6312.777	24.589	0.000	23.890	0.000	8.710	0.000	0.000	24.871	23.597	118.352	MWD+IFR1+MS
6500.000	0.000	0.000	6412.777	24.897	0.000	24.201	0.000	8.846	0.000	0.000	25.181	23.906	118.445	MWD+IFR1+MS
6600.000	0.000	0.000	6512.777	25.207	0.000	24.514	0.000	8.985	0.000	0.000	25.492	24.217	118.535	MWD+IFR1+MS
6700.000	0.000	0.000	6612.777	25.517	0.000	24.827	0.000	9.127	0.000	0.000	25.804	24.529	118.622	MWD+IFR1+MS
6800.000	0.000	0.000	6712.777	25.829	0.000	25.142	0.000	9.271	0.000	0.000	26.118	24.842	118.708	MWD+IFR1+MS
6900.000	0.000	0.000	6812.777	26.142	0.000	25.458	0.000	9.418	0.000	0.000	26.432	25.157	118.791	MWD+IFR1+MS
7000.000	0.000	0.000	6912.777	26.456	0.000	25.775	0.000	9.568	0.000	0.000	26.748	25.472	118.873	MWD+IFR1+MS
7100.000	0.000	0.000	7012.777	26.771	0.000	26.094	0.000	9.720	0.000	0.000	27.065	25.789	118.952	MWD+IFR1+MS
7200.000	0.000	0.000	7112.777	27.088	0.000	26.413	0.000	9.876	0.000	0.000	27.383	26.107	119.030	MWD+IFR1+MS
7300.000	0.000	0.000	7212.777	27.405	0.000	26.733	0.000	10.034	0.000	0.000	27.702	26.426	119.105	MWD+IFR1+MS
7400.000	0.000	0.000	7312.777	27.723	0.000	27.054	0.000	10.194	0.000	0.000	28.021	26.746	119.179	MWD+IFR1+MS
7500.000	0.000	0.000	7412.777	28.043	0.000	27.376	0.000	10.358	0.000	0.000	28.342	27.066	119.252	MWD+IFR1+MS
7600.000	0.000	0.000	7512.777	28.363	0.000	27.699	0.000	10.525	0.000	0.000	28.664	27.388	119.322	MWD+IFR1+MS
7700.000	0.000	0.000	7612.777	28.684	0.000	28.023	0.000	10.694	0.000	0.000	28.986	27.711	119.391	MWD+IFR1+MS
7800.000	0.000	0.000	7712.777	29.006	0.000	28.348	0.000	10.866	0.000	0.000	29.310	28.034	119.459	MWD+IFR1+MS
7900.000	0.000	0.000	7812.777	29.329	0.000	28.674	0.000	11.041	0.000	0.000	29.634	28.359	119.525	MWD+IFR1+MS
8000.000	0.000	0.000	7912.777	29.653	0.000	29.000	0.000	11.219	0.000	0.000	29.959	28.684	119.589	MWD+IFR1+MS
8100.000	0.000	0.000	8012.777	29.977	0.000	29.327	0.000	11.400	0.000	0.000	30.285	29.010	119.652	MWD+IFR1+MS
8200.000	0.000	0.000	8112.777	30.303	0.000	29.655	0.000	11.584	0.000	0.000	30.611	29.336	119.714	MWD+IFR1+MS
8300.000	0.000	0.000	8212.777	30.629	0.000	29.983	0.000	11.770	0.000	0.000	30.938	29.664	119.775	MWD+IFR1+MS
8400.000	0.000	0.000	8312.777	30.956	0.000	30.312	0.000	11.960	0.000	0.000	31.266	29.992	119.834	MWD+IFR1+MS
8500.000	0.000	0.000	8412.777	31.283	0.000	30.642	0.000	12.153	0.000	0.000	31.594	30.321	119.892	MWD+IFR1+MS
8600.000	0.000	0.000	8512.777	31.611	0.000	30.973	0.000	12.349	0.000	0.000	31.924	30.650	119.949	MWD+IFR1+MS
8700.000	0.000	0.000	8612.777	31.940	0.000	31.304	0.000	12.547	0.000	0.000	32.253	30.980	120.004	MWD+IFR1+MS
8800.000	0.000	0.000	8712.777	32.269	0.000	31.635	0.000	12.749	0.000	0.000	32.584	31.311	120.059	MWD+IFR1+MS
8900.000	0.000	0.000	8812.777	32.599	0.000	31.967	0.000	12.954	0.000	0.000	32.915	31.642	120.112	MWD+IFR1+MS
9000.000	0.000	0.000	8912.777	32.930	0.000	32.300	0.000	13.161	0.000	0.000	33.246	31.974	120.165	MWD+IFR1+MS
9091.026	0.000	0.000	9003.803	33.230	0.000	32.603	0.000	13.353	0.000	0.000	33.547	32.277	120.193	MWD+IFR1+MS
9100.000	0.718	359.784	9012.776	33.216	0.000	32.636	0.000	13.372	0.000	0.000	33.576	32.307	120.187	MWD+IFR1+MS
9200.000	8.718	359.784	9112.357	33.181	0.000	32.959	0.000	13.596	0.000	0.000	34.198	32.691	114.467	MWD+IFR1+MS

9300.000	16.718	359.784	9209.824	33.512	0.000	33.270	0.000	13.937	0.000	0.000	35.571	33.086	105.273	MWD+IFR1+MS
9400.000	24.718	359.784	9303.281	33.328	0.000	33.562	0.000	14.489	0.000	0.000	36.822	33.403	101.937	MWD+IFR1+MS
9500.000	32.718	359.784	9390.910	32.698	0.000	33.834	0.000	15.312	0.000	0.000	37.890	33.682	100.425	MWD+IFR1+MS
9600.000	40.718	359.784	9471.004	31.711	0.000	34.084	0.000	16.424	0.000	0.000	38.757	33.931	99.701	MWD+IFR1+MS
9700.000	48.718	359.784	9542.004	30.490	0.000	34.312	0.000	17.804	0.000	0.000	39.422	34.154	99.401	MWD+IFR1+MS
9800.000	56.718	359.784	9602.529	29.184	0.000	34.517	0.000	19.403	0.000	0.000	39.896	34.351	99.364	MWD+IFR1+MS
9900.000	64.718	359.784	9651.400	27.976	0.000	34.701	0.000	21.157	0.000	0.000	40.201	34.526	99.499	MWD+IFR1+MS
10000.000	72.718	359.784	9687.666	27.068	0.000	34.863	0.000	22.999	0.000	0.000	40.368	34.680	99.742	MWD+IFR1+MS
10100.000	80.718	359.784	9710.622	26.653	0.000	35.005	0.000	24.863	0.000	0.000	40.436	34.813	100.024	MWD+IFR1+MS
10200.000	88.718	359.784	9719.821	26.875	0.000	35.125	0.000	26.690	0.000	0.000	40.451	34.928	100.259	MWD+IFR1+MS
10216.026	90.000	359.784	9720.000	26.730	0.000	35.140	0.000	26.730	0.000	0.000	40.452	34.943	100.280	MWD+IFR1+MS
10300.000	90.000	359.784	9720.000	26.894	0.000	35.231	0.000	26.894	0.000	0.000	40.455	35.033	100.417	MWD+IFR1+MS
10400.000	90.000	359.784	9720.000	27.098	0.000	35.364	0.000	27.098	0.000	0.000	40.460	35.163	100.631	MWD+IFR1+MS
10500.000	90.000	359.784	9720.000	27.324	0.000	35.519	0.000	27.324	0.000	0.000	40.466	35.315	100.897	MWD+IFR1+MS
10600.000	90.000	359.784	9720.000	27.570	0.000	35.695	0.000	27.570	0.000	0.000	40.474	35.486	101.221	MWD+IFR1+MS
10700.000	90.000	359.784	9720.000	27.837	0.000	35.892	0.000	27.837	0.000	0.000	40.483	35.677	101.613	MWD+IFR1+MS
10800.000	90.000	359.784	9720.000	28.123	0.000	36.110	0.000	28.123	0.000	0.000	40.494	35.888	102.084	MWD+IFR1+MS
10900.000	90.000	359.784	9720.000	28.427	0.000	36.347	0.000	28.427	0.000	0.000	40.508	36.117	102.650	MWD+IFR1+MS
11000.000	90.000	359.784	9720.000	28.750	0.000	36.604	0.000	28.750	0.000	0.000	40.523	36.364	103.331	MWD+IFR1+MS
11100.000	90.000	359.784	9720.000	29.091	0.000	36.880	0.000	29.091	0.000	0.000	40.542	36.627	104.155	MWD+IFR1+MS
11200.000	90.000	359.784	9720.000	29.448	0.000	37.176	0.000	29.448	0.000	0.000	40.564	36.907	105.159	MWD+IFR1+MS
11300.000	90.000	359.784	9720.000	29.822	0.000	37.489	0.000	29.822	0.000	0.000	40.591	37.201	106.392	MWD+IFR1+MS
11400.000	90.000	359.784	9720.000	30.212	0.000	37.820	0.000	30.212	0.000	0.000	40.623	37.507	107.925	MWD+IFR1+MS
11500.000	90.000	359.784	9720.000	30.616	0.000	38.169	0.000	30.616	0.000	0.000	40.663	37.824	109.854	MWD+IFR1+MS
11600.000	90.000	359.784	9720.000	31.036	0.000	38.535	0.000	31.036	0.000	0.000	40.714	38.148	112.313	MWD+IFR1+MS
11700.000	90.000	359.784	9720.000	31.469	0.000	38.917	0.000	31.469	0.000	0.000	40.780	38.473	115.481	MWD+IFR1+MS
11800.000	90.000	359.784	9720.000	31.916	0.000	39.316	0.000	31.916	0.000	0.000	40.868	38.794	119.572	MWD+IFR1+MS
11900.000	90.000	359.784	9720.000	32.375	0.000	39.730	0.000	32.375	0.000	0.000	40.987	39.099	124.777	MWD+IFR1+MS
12000.000	90.000	359.784	9720.000	32.847	0.000	40.158	0.000	32.847	0.000	0.000	41.150	39.376	131.099	MWD+IFR1+MS
12100.000	90.000	359.784	9720.000	33.331	0.000	40.602	0.000	33.331	0.000	0.000	41.368	39.612	-41.864	MWD+IFR1+MS
12200.000	90.000	359.784	9720.000	33.826	0.000	41.060	0.000	33.826	0.000	0.000	41.649	39.801	-34.899	MWD+IFR1+MS
12300.000	90.000	359.784	9720.000	34.332	0.000	41.531	0.000	34.332	0.000	0.000	41.988	39.945	-28.749	MWD+IFR1+MS
12400.000	90.000	359.784	9720.000	34.848	0.000	42.015	0.000	34.848	0.000	0.000	42.376	40.054	-23.735	MWD+IFR1+MS

12500.000	90.000	359.784	9720.000	35.374	0.000	42.512	0.000	35.374	0.000	0.000	42.804	40.137	-19.804	MWD+IFR1+MS
12600.000	90.000	359.784	9720.000	35.909	0.000	43.022	0.000	35.909	0.000	0.000	43.261	40.203	-16.752	MWD+IFR1+MS
12700.000	90.000	359.784	9720.000	36.454	0.000	43.543	0.000	36.454	0.000	0.000	43.744	40.257	-14.369	MWD+IFR1+MS
12800.000	90.000	359.784	9720.000	37.007	0.000	44.076	0.000	37.007	0.000	0.000	44.246	40.302	-12.485	MWD+IFR1+MS
12900.000	90.000	359.784	9720.000	37.568	0.000	44.619	0.000	37.568	0.000	0.000	44.766	40.341	-10.972	MWD+IFR1+MS
13000.000	90.000	359.784	9720.000	38.138	0.000	45.174	0.000	38.138	0.000	0.000	45.302	40.376	-9.739	MWD+IFR1+MS
13100.000	90.000	359.784	9720.000	38.715	0.000	45.738	0.000	38.715	0.000	0.000	45.851	40.409	-8.720	MWD+IFR1+MS
13200.000	90.000	359.784	9720.000	39.299	0.000	46.313	0.000	39.299	0.000	0.000	46.412	40.439	-7.866	MWD+IFR1+MS
13300.000	90.000	359.784	9720.000	39.889	0.000	46.897	0.000	39.889	0.000	0.000	46.985	40.467	-7.144	MWD+IFR1+MS
13400.000	90.000	359.784	9720.000	40.487	0.000	47.490	0.000	40.487	0.000	0.000	47.569	40.494	-6.525	MWD+IFR1+MS
13500.000	90.000	359.784	9720.000	41.091	0.000	48.092	0.000	41.091	0.000	0.000	48.163	40.521	-5.991	MWD+IFR1+MS
13600.000	90.000	359.784	9720.000	41.701	0.000	48.702	0.000	41.701	0.000	0.000	48.767	40.547	-5.526	MWD+IFR1+MS
13700.000	90.000	359.784	9720.000	42.316	0.000	49.321	0.000	42.316	0.000	0.000	49.380	40.572	-5.119	MWD+IFR1+MS
13800.000	90.000	359.784	9720.000	42.937	0.000	49.948	0.000	42.937	0.000	0.000	50.001	40.598	-4.758	MWD+IFR1+MS
13900.000	90.000	359.784	9720.000	43.564	0.000	50.582	0.000	43.564	0.000	0.000	50.630	40.623	-4.439	MWD+IFR1+MS
14000.000	90.000	359.784	9720.000	44.195	0.000	51.223	0.000	44.195	0.000	0.000	51.268	40.648	-4.153	MWD+IFR1+MS
14100.000	90.000	359.784	9720.000	44.831	0.000	51.871	0.000	44.831	0.000	0.000	51.913	40.674	-3.897	MWD+IFR1+MS
14200.000	90.000	359.784	9720.000	45.472	0.000	52.526	0.000	45.472	0.000	0.000	52.565	40.699	-3.665	MWD+IFR1+MS
14300.000	90.000	359.784	9720.000	46.118	0.000	53.188	0.000	46.118	0.000	0.000	53.223	40.725	-3.456	MWD+IFR1+MS
14400.000	90.000	359.784	9720.000	46.767	0.000	53.856	0.000	46.767	0.000	0.000	53.889	40.751	-3.266	MWD+IFR1+MS
14500.000	90.000	359.784	9720.000	47.421	0.000	54.530	0.000	47.421	0.000	0.000	54.560	40.777	-3.093	MWD+IFR1+MS
14600.000	90.000	359.784	9720.000	48.079	0.000	55.210	0.000	48.079	0.000	0.000	55.238	40.803	-2.934	MWD+IFR1+MS
14700.000	90.000	359.784	9720.000	48.740	0.000	55.895	0.000	48.740	0.000	0.000	55.921	40.830	-2.788	MWD+IFR1+MS
14800.000	90.000	359.784	9720.000	49.405	0.000	56.586	0.000	49.405	0.000	0.000	56.611	40.857	-2.654	MWD+IFR1+MS
14900.000	90.000	359.784	9720.000	50.074	0.000	57.282	0.000	50.074	0.000	0.000	57.305	40.885	-2.531	MWD+IFR1+MS
15000.000	90.000	359.784	9720.000	50.746	0.000	57.983	0.000	50.746	0.000	0.000	58.005	40.912	-2.417	MWD+IFR1+MS
15100.000	90.000	359.784	9720.000	51.421	0.000	58.689	0.000	51.421	0.000	0.000	58.709	40.941	-2.311	MWD+IFR1+MS
15200.000	90.000	359.784	9720.000	52.099	0.000	59.399	0.000	52.099	0.000	0.000	59.418	40.969	-2.212	MWD+IFR1+MS
15300.000	90.000	359.784	9720.000	52.780	0.000	60.115	0.000	52.780	0.000	0.000	60.132	40.998	-2.120	MWD+IFR1+MS
15400.000	90.000	359.784	9720.000	53.464	0.000	60.834	0.000	53.464	0.000	0.000	60.851	41.028	-2.035	MWD+IFR1+MS
15500.000	90.000	359.784	9720.000	54.150	0.000	61.558	0.000	54.150	0.000	0.000	61.573	41.057	-1.955	MWD+IFR1+MS
15600.000	90.000	359.784	9720.000	54.840	0.000	62.285	0.000	54.840	0.000	0.000	62.300	41.088	-1.881	MWD+IFR1+MS
15700.000	90.000	359.784	9720.000	55.531	0.000	63.017	0.000	55.531	0.000	0.000	63.031	41.118	-1.810	MWD+IFR1+MS

15800.000	90.000	359.784	9720.000	56.226	0.000	63.752	0.000	56.226	0.000	0.000	63.765	41.150	-1.745	MWD+IFR1+MS
15900.000	90.000	359.784	9720.000	56.922	0.000	64.491	0.000	56.922	0.000	0.000	64.504	41.181	-1.683	MWD+IFR1+MS
16000.000	90.000	359.784	9720.000	57.621	0.000	65.234	0.000	57.621	0.000	0.000	65.245	41.213	-1.625	MWD+IFR1+MS
16100.000	90.000	359.784	9720.000	58.322	0.000	65.979	0.000	58.322	0.000	0.000	65.991	41.246	-1.570	MWD+IFR1+MS
16200.000	90.000	359.784	9720.000	59.025	0.000	66.729	0.000	59.025	0.000	0.000	66.739	41.279	-1.518	MWD+IFR1+MS
16300.000	90.000	359.784	9720.000	59.730	0.000	67.481	0.000	59.730	0.000	0.000	67.491	41.312	-1.469	MWD+IFR1+MS
16400.000	90.000	359.784	9720.000	60.438	0.000	68.236	0.000	60.438	0.000	0.000	68.246	41.346	-1.423	MWD+IFR1+MS
16500.000	90.000	359.784	9720.000	61.147	0.000	68.995	0.000	61.147	0.000	0.000	69.004	41.380	-1.379	MWD+IFR1+MS
16600.000	90.000	359.784	9720.000	61.858	0.000	69.756	0.000	61.858	0.000	0.000	69.765	41.415	-1.338	MWD+IFR1+MS
16700.000	90.000	359.784	9720.000	62.570	0.000	70.520	0.000	62.570	0.000	0.000	70.528	41.450	-1.298	MWD+IFR1+MS
16800.000	90.000	359.784	9720.000	63.285	0.000	71.287	0.000	63.285	0.000	0.000	71.295	41.486	-1.261	MWD+IFR1+MS
16900.000	90.000	359.784	9720.000	64.001	0.000	72.056	0.000	64.001	0.000	0.000	72.064	41.522	-1.225	MWD+IFR1+MS
17000.000	90.000	359.784	9720.000	64.718	0.000	72.828	0.000	64.718	0.000	0.000	72.835	41.559	-1.191	MWD+IFR1+MS
17100.000	90.000	359.784	9720.000	65.437	0.000	73.602	0.000	65.437	0.000	0.000	73.609	41.596	-1.159	MWD+IFR1+MS
17200.000	90.000	359.784	9720.000	66.158	0.000	74.379	0.000	66.158	0.000	0.000	74.386	41.633	-1.128	MWD+IFR1+MS
17300.000	90.000	359.784	9720.000	66.880	0.000	75.158	0.000	66.880	0.000	0.000	75.164	41.671	-1.099	MWD+IFR1+MS
17400.000	90.000	359.784	9720.000	67.604	0.000	75.939	0.000	67.604	0.000	0.000	75.945	41.710	-1.071	MWD+IFR1+MS
17500.000	90.000	359.784	9720.000	68.328	0.000	76.723	0.000	68.328	0.000	0.000	76.728	41.749	-1.044	MWD+IFR1+MS
17600.000	90.000	359.784	9720.000	69.054	0.000	77.508	0.000	69.054	0.000	0.000	77.513	41.788	-1.019	MWD+IFR1+MS
17700.000	90.000	359.784	9720.000	69.782	0.000	78.296	0.000	69.782	0.000	0.000	78.301	41.828	-0.994	MWD+IFR1+MS
17800.000	90.000	359.784	9720.000	70.511	0.000	79.085	0.000	70.511	0.000	0.000	79.090	41.868	-0.971	MWD+IFR1+MS
17900.000	90.000	359.784	9720.000	71.240	0.000	79.876	0.000	71.240	0.000	0.000	79.881	41.909	-0.948	MWD+IFR1+MS
18000.000	90.000	359.784	9720.000	71.971	0.000	80.670	0.000	71.971	0.000	0.000	80.674	41.950	-0.927	MWD+IFR1+MS
18100.000	90.000	359.784	9720.000	72.703	0.000	81.465	0.000	72.703	0.000	0.000	81.469	41.992	-0.906	MWD+IFR1+MS
18200.000	90.000	359.784	9720.000	73.437	0.000	82.261	0.000	73.437	0.000	0.000	82.266	42.034	-0.886	MWD+IFR1+MS
18300.000	90.000	359.784	9720.000	74.171	0.000	83.060	0.000	74.171	0.000	0.000	83.064	42.077	-0.867	MWD+IFR1+MS
18400.000	90.000	359.784	9720.000	74.906	0.000	83.860	0.000	74.906	0.000	0.000	83.864	42.120	-0.849	MWD+IFR1+MS
18500.000	90.000	359.784	9720.000	75.642	0.000	84.662	0.000	75.642	0.000	0.000	84.665	42.164	-0.832	MWD+IFR1+MS
18600.000	90.000	359.784	9720.000	76.380	0.000	85.465	0.000	76.380	0.000	0.000	85.468	42.208	-0.815	MWD+IFR1+MS
18700.000	90.000	359.784	9720.000	77.118	0.000	86.270	0.000	77.118	0.000	0.000	86.273	42.252	-0.798	MWD+IFR1+MS
18800.000	90.000	359.784	9720.000	77.857	0.000	87.076	0.000	77.857	0.000	0.000	87.079	42.297	-0.783	MWD+IFR1+MS
18900.000	90.000	359.784	9720.000	78.597	0.000	87.884	0.000	78.597	0.000	0.000	87.887	42.342	-0.768	MWD+IFR1+MS
19000.000	90.000	359.784	9720.000	79.338	0.000	88.693	0.000	79.338	0.000	0.000	88.696	42.388	-0.753	MWD+IFR1+MS

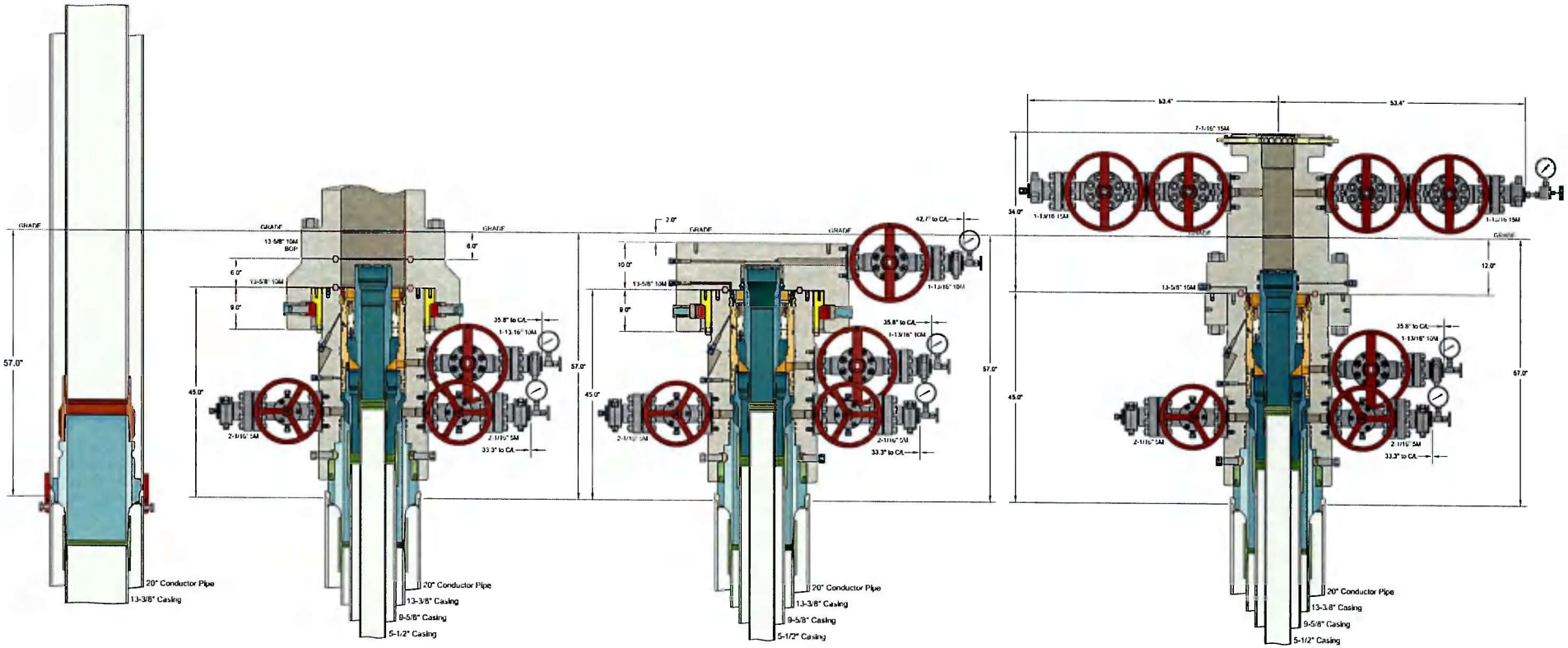
19100.000	90.000	359.784	9720.000	80.080	0.000	89.503	0.000	80.080	0.000	0.000	89.506	42.435	-0.739	MWD+IFR1+MS
19200.000	90.000	359.784	9720.000	80.822	0.000	90.315	0.000	80.822	0.000	0.000	90.317	42.481	-0.726	MWD+IFR1+MS
19300.000	90.000	359.784	9720.000	81.565	0.000	91.128	0.000	81.565	0.000	0.000	91.130	42.529	-0.713	MWD+IFR1+MS
19400.000	90.000	359.784	9720.000	82.309	0.000	91.942	0.000	82.309	0.000	0.000	91.945	42.576	-0.700	MWD+IFR1+MS
19500.000	90.000	359.784	9720.000	83.054	0.000	92.757	0.000	83.054	0.000	0.000	92.760	42.624	-0.688	MWD+IFR1+MS
19600.000	90.000	359.784	9720.000	83.800	0.000	93.574	0.000	83.800	0.000	0.000	93.576	42.673	-0.676	MWD+IFR1+MS
19700.000	90.000	359.784	9720.000	84.546	0.000	94.392	0.000	84.546	0.000	0.000	94.394	42.722	-0.665	MWD+IFR1+MS
19800.000	90.000	359.784	9720.000	85.293	0.000	95.211	0.000	85.293	0.000	0.000	95.213	42.771	-0.654	MWD+IFR1+MS
19900.000	90.000	359.784	9720.000	86.040	0.000	96.031	0.000	86.040	0.000	0.000	96.033	42.821	-0.643	MWD+IFR1+MS
20000.000	90.000	359.784	9720.000	86.789	0.000	96.852	0.000	86.789	0.000	0.000	96.854	42.872	-0.633	MWD+IFR1+MS
20100.000	90.000	359.784	9720.000	87.538	0.000	97.674	0.000	87.538	0.000	0.000	97.676	42.922	-0.623	MWD+IFR1+MS
20200.000	90.000	359.784	9720.000	88.287	0.000	98.497	0.000	88.287	0.000	0.000	98.499	42.974	-0.614	MWD+IFR1+MS
20300.000	90.000	359.784	9720.000	89.037	0.000	99.321	0.000	89.037	0.000	0.000	99.323	43.025	-0.604	MWD+IFR1+MS
20400.000	90.000	359.784	9720.000	89.788	0.000	100.146	0.000	89.788	0.000	0.000	100.148	43.077	-0.595	MWD+IFR1+MS
20500.000	90.000	359.784	9720.000	90.539	0.000	100.972	0.000	90.539	0.000	0.000	100.974	43.130	-0.587	MWD+IFR1+MS
20600.000	90.000	359.784	9720.000	91.291	0.000	101.799	0.000	91.291	0.000	0.000	101.801	43.183	-0.578	MWD+IFR1+MS
20700.000	90.000	359.784	9720.000	92.044	0.000	102.627	0.000	92.044	0.000	0.000	102.629	43.236	-0.570	MWD+IFR1+MS
20800.000	90.000	359.784	9720.000	92.797	0.000	103.456	0.000	92.797	0.000	0.000	103.457	43.290	-0.562	MWD+IFR1+MS
20900.000	90.000	359.784	9720.000	93.550	0.000	104.285	0.000	93.550	0.000	0.000	104.287	43.344	-0.554	MWD+IFR1+MS
21000.000	90.000	359.784	9720.000	94.304	0.000	105.116	0.000	94.304	0.000	0.000	105.117	43.399	-0.547	MWD+IFR1+MS
21100.000	90.000	359.784	9720.000	95.059	0.000	105.947	0.000	95.059	0.000	0.000	105.949	43.454	-0.540	MWD+IFR1+MS
21200.000	90.000	359.784	9720.000	95.813	0.000	106.779	0.000	95.813	0.000	0.000	106.780	43.509	-0.533	MWD+IFR1+MS
21300.000	90.000	359.784	9720.000	96.569	0.000	107.612	0.000	96.569	0.000	0.000	107.613	43.565	-0.526	MWD+IFR1+MS
21400.000	90.000	359.784	9720.000	97.325	0.000	108.445	0.000	97.325	0.000	0.000	108.447	43.622	-0.519	MWD+IFR1+MS
21500.000	90.000	359.784	9720.000	98.081	0.000	109.280	0.000	98.081	0.000	0.000	109.281	43.679	-0.513	MWD+IFR1+MS
21600.000	90.000	359.784	9720.000	98.838	0.000	110.115	0.000	98.838	0.000	0.000	110.116	43.736	-0.506	MWD+IFR1+MS
21700.000	90.000	359.784	9720.000	99.595	0.000	110.950	0.000	99.595	0.000	0.000	110.952	43.793	-0.500	MWD+IFR1+MS
21800.000	90.000	359.784	9720.000	100.353	0.000	111.787	0.000	100.353	0.000	0.000	111.788	43.851	-0.494	MWD+IFR1+MS
21900.000	90.000	359.784	9720.000	101.111	0.000	112.624	0.000	101.111	0.000	0.000	112.625	43.910	-0.488	MWD+IFR1+MS
22000.000	90.000	359.784	9720.000	101.870	0.000	113.462	0.000	101.870	0.000	0.000	113.463	43.969	-0.483	MWD+IFR1+MS
22100.000	90.000	359.784	9720.000	102.628	0.000	114.300	0.000	102.628	0.000	0.000	114.301	44.028	-0.477	MWD+IFR1+MS
22200.000	90.000	359.784	9720.000	103.388	0.000	115.139	0.000	103.388	0.000	0.000	115.140	44.088	-0.472	MWD+IFR1+MS
22300.000	90.000	359.784	9720.000	104.147	0.000	115.979	0.000	104.147	0.000	0.000	115.980	44.148	-0.467	MWD+IFR1+MS

22400.000	90.000	359.784	9720.000	104.907	0.000	116.819	0.000	104.907	0.000	0.000	116.820	44.208	-0.462	MWD+IFR1+MS
22500.000	90.000	359.784	9720.000	105.668	0.000	117.660	0.000	105.668	0.000	0.000	117.661	44.269	-0.457	MWD+IFR1+MS
22600.000	90.000	359.784	9720.000	106.428	0.000	118.501	0.000	106.428	0.000	0.000	118.502	44.330	-0.452	MWD+IFR1+MS
22700.000	90.000	359.784	9720.000	107.190	0.000	119.343	0.000	107.190	0.000	0.000	119.344	44.392	-0.447	MWD+IFR1+MS
22800.000	90.000	359.784	9720.000	107.951	0.000	120.186	0.000	107.951	0.000	0.000	120.186	44.454	-0.443	MWD+IFR1+MS
22900.000	90.000	359.784	9720.000	108.713	0.000	121.029	0.000	108.713	0.000	0.000	121.030	44.517	-0.438	MWD+IFR1+MS
23000.000	90.000	359.784	9720.000	109.475	0.000	121.872	0.000	109.475	0.000	0.000	121.873	44.580	-0.434	MWD+IFR1+MS
23100.000	90.000	359.784	9720.000	110.237	0.000	122.716	0.000	110.237	0.000	0.000	122.717	44.643	-0.430	MWD+IFR1+MS
23200.000	90.000	359.784	9720.000	111.000	0.000	123.561	0.000	111.000	0.000	0.000	123.562	44.707	-0.426	MWD+IFR1+MS
23300.000	90.000	359.784	9720.000	111.763	0.000	124.406	0.000	111.763	0.000	0.000	124.407	44.771	-0.422	MWD+IFR1+MS
23400.000	90.000	359.784	9720.000	112.526	0.000	125.252	0.000	112.526	0.000	0.000	125.253	44.835	-0.418	MWD+IFR1+MS
23500.000	90.000	359.784	9720.000	113.290	0.000	126.098	0.000	113.290	0.000	0.000	126.099	44.900	-0.414	MWD+IFR1+MS
23600.000	90.000	359.784	9720.000	114.054	0.000	126.945	0.000	114.054	0.000	0.000	126.945	44.965	-0.410	MWD+IFR1+MS
23700.000	90.000	359.784	9720.000	114.818	0.000	127.792	0.000	114.818	0.000	0.000	127.792	45.031	-0.407	MWD+IFR1+MS
23800.000	90.000	359.784	9720.000	115.582	0.000	128.639	0.000	115.582	0.000	0.000	128.640	45.097	-0.403	MWD+IFR1+MS
23900.000	90.000	359.784	9720.000	116.347	0.000	129.487	0.000	116.347	0.000	0.000	129.488	45.163	-0.400	MWD+IFR1+MS
24000.000	90.000	359.784	9720.000	117.112	0.000	130.335	0.000	117.112	0.000	0.000	130.336	45.230	-0.396	MWD+IFR1+MS
24100.000	90.000	359.784	9720.000	117.877	0.000	131.184	0.000	117.877	0.000	0.000	131.185	45.297	-0.393	MWD+IFR1+MS
24200.000	90.000	359.784	9720.000	118.643	0.000	132.034	0.000	118.643	0.000	0.000	132.034	45.365	-0.390	MWD+IFR1+MS
24300.000	90.000	359.784	9720.000	119.409	0.000	132.883	0.000	119.409	0.000	0.000	132.884	45.433	-0.386	MWD+IFR1+MS
24400.000	90.000	359.784	9720.000	120.175	0.000	133.733	0.000	120.175	0.000	0.000	133.734	45.501	-0.383	MWD+IFR1+MS
24500.000	90.000	359.784	9720.000	120.941	0.000	134.584	0.000	120.941	0.000	0.000	134.584	45.570	-0.380	MWD+IFR1+MS
24600.000	90.000	359.784	9720.000	121.707	0.000	135.434	0.000	121.707	0.000	0.000	135.435	45.639	-0.377	MWD+IFR1+MS
24700.000	90.000	359.784	9720.000	122.474	0.000	136.286	0.000	122.474	0.000	0.000	136.286	45.708	-0.374	MWD+IFR1+MS
24800.000	90.000	359.784	9720.000	123.241	0.000	137.137	0.000	123.241	0.000	0.000	137.138	45.778	-0.372	MWD+IFR1+MS
24900.000	90.000	359.784	9720.000	124.008	0.000	137.989	0.000	124.008	0.000	0.000	137.990	45.848	-0.369	MWD+IFR1+MS
25000.000	90.000	359.784	9720.000	124.775	0.000	138.841	0.000	124.775	0.000	0.000	138.842	45.918	-0.366	MWD+IFR1+MS
25100.000	90.000	359.784	9720.000	125.543	0.000	139.694	0.000	125.543	0.000	0.000	139.694	45.989	-0.363	MWD+IFR1+MS
25200.000	90.000	359.784	9720.000	126.311	0.000	140.547	0.000	126.311	0.000	0.000	140.547	46.060	-0.361	MWD+IFR1+MS
25300.000	90.000	359.784	9720.000	127.079	0.000	141.400	0.000	127.079	0.000	0.000	141.401	46.132	-0.358	MWD+IFR1+MS
25400.000	90.000	359.784	9720.000	127.847	0.000	142.254	0.000	127.847	0.000	0.000	142.254	46.204	-0.356	MWD+IFR1+MS
25500.000	90.000	359.784	9720.000	128.615	0.000	143.108	0.000	128.615	0.000	0.000	143.108	46.276	-0.353	MWD+IFR1+MS
25600.000	90.000	359.784	9720.000	129.384	0.000	143.962	0.000	129.384	0.000	0.000	143.963	46.349	-0.351	MWD+IFR1+MS

25700.000	90.000	359.784	9720.000	130.153	0.000	144.817	0.000	130.153	0.000	0.000	144.817	46.422	-0.349	MWD+IFR1+MS
25800.000	90.000	359.784	9720.000	130.922	0.000	145.672	0.000	130.922	0.000	0.000	145.672	46.495	-0.346	MWD+IFR1+MS
25900.000	90.000	359.784	9720.000	131.691	0.000	146.527	0.000	131.691	0.000	0.000	146.528	46.569	-0.344	MWD+IFR1+MS
26000.000	90.000	359.784	9720.000	132.460	0.000	147.383	0.000	132.460	0.000	0.000	147.383	46.643	-0.342	MWD+IFR1+MS
26100.000	90.000	359.784	9720.000	133.230	0.000	148.239	0.000	133.230	0.000	0.000	148.239	46.717	-0.340	MWD+IFR1+MS
26200.000	90.000	359.784	9720.000	134.000	0.000	149.095	0.000	134.000	0.000	0.000	149.095	46.792	-0.338	MWD+IFR1+MS
26300.000	90.000	359.784	9720.000	134.770	0.000	149.951	0.000	134.770	0.000	0.000	149.951	46.867	-0.336	MWD+IFR1+MS
26400.000	90.000	359.784	9720.000	135.540	0.000	150.808	0.000	135.540	0.000	0.000	150.808	46.942	-0.334	MWD+IFR1+MS
26442.141	90.000	359.784	9720.000	135.864	0.000	151.168	0.000	135.864	0.000	0.000	151.168	46.974	-0.333	MWD+IFR1+MS
26492.142	90.000	359.784	9720.000	136.248	0.000	151.596	0.000	136.248	0.000	0.000	151.596	47.012	-0.332	MWD+IFR1+MS

Plan Targets POKER LAKE UNIT 22 DTD 108H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 17	10216.03	440108.40	645791.50	6258.00	RECTANGLE
LTP 17	26442.14	456334.40	645730.30	6258.00	RECTANGLE
BHL 17	26492.15	456384.40	645730.10	6258.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

(20") x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	SDT-2856	

U. S. Steel Tubular Products

2/22/2022 2:07:15 PM

6.000" 26.00lb/ft (0.436" Wall) P110 HP USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		–
Minimum Yield Strength	125,000	–	psi	–
Maximum Yield Strength	140,000	–	psi	–
Minimum Tensile Strength	130,000	–	psi	–
DIMENSIONS	**Pipe**	**USS-FREEDOM HTQ®**		**–**
Outside Diameter	6.000	6.875	in.	–
Wall Thickness	0.436	–	in.	–
Inside Diameter	5.128	5.128	in.	–
Standard Drift	5.003	5.003	in.	–
Alternate Drift	–	–	in.	–
Nominal Linear Weight, T&C	26.00	–	lb/ft	–
Plain End Weight	25.93	–	lb/ft	–
SECTION AREA	**Pipe**	**USS-FREEDOM HTQ®**		**–**
Critical Area	7.621	7.621	sq. in.	–
Joint Efficiency	--	100.0	%	–
PERFORMANCE	**Pipe**	**USS-FREEDOM HTQ®**		**–**
Minimum Collapse Pressure	15,550	15,550	psi	–
Minimum Internal Yield Pressure	15,920	15,920	psi	–
Minimum Pipe Body Yield Strength	953,000	–	lb	–
Joint Strength	--	953,000	lb	–
Compression Rating	--	953,000	lb	–
Reference Length [4]	--	24,492	ft	–
Maximum Uniaxial Bend Rating [2]	--	95.5	deg/100 ft	–
MAKE-UP DATA	**Pipe**	**USS-FREEDOM HTQ®**		**–**
Make-Up Loss	--	4.31	in.	–
Minimum Make-Up Torque [3]	--	15,000	ft-lb	–
Maximum Make-Up Torque [3]	--	21,000	ft-lb	–
Maximum Operating Torque[3]	--	44,000	ft-lb	–

UNCONTROLLED

Notes

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

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www.usstubular.com

U. S. Steel Tubular Products

8/27/2021 1:48:58 PM

6.000" 26.00lb/ft (0.436" Wall) P110 RY USS-TALON HTQ™

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-TALON HTQ™**		**--**
Outside Diameter	6.000	6.875	in.	--
Wall Thickness	0.436	--	in.	--
Inside Diameter	5.128	5.128	in.	--
Standard Drift	5.003	5.003	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	26.00	--	lb/ft	--
Plain End Weight	25.93	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-TALON HTQ™**		**--**
Critical Area	7.621	7.621	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	**Pipe**	**USS-TALON HTQ™**		**--**
Minimum Collapse Pressure	13,570	13,570	psi	--
Minimum Internal Yield Pressure	14,010	14,010	psi	--
Minimum Pipe Body Yield Strength	838,000	--	lb	--
Joint Strength	--	838,000	lb	--
Compression Rating	--	838,000	lb	--
Reference Length	--	21,490	ft	[5]
Maximum Uniaxial Bend Rating	--	84.0	deg/100 ft	[3]
MAKE-UP DATA	**Pipe**	**USS-TALON HTQ™**		**--**
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	22,500	ft-lb	[4]
Maximum Make-Up Torque	--	25,500	ft-lb	[4]
Maximum Operating Torque	--	48,900	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.

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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 300675

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 300675
	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 on any string, then a CBL is required.	1/12/2024