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 / NWNW /

County or Parish/State:

Well Number: 121H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM068905

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549863

Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2761870

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/16/2023

Time Sundry Submitted: 11:39

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: 1106' FNL & 115' FWL TO: 1011' FNL & 604' FWL of Section 22-T24S-R30E BHL: FROM: 200' FNL & 754' FWL TO: 50' FNL & 860' FWL of Section 3-T24S-R30E FTP: FROM: 100' FNL & 697' FWL TO: 500' FNL & 860' FWL of Section 22-T24S-R30E LTP: FROM: 330' FNL & 753' FWL TO: 100' FNL & 860' FWL 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_121H_C_102_Signed_11_10_2023_20231214155651.pdf

Poker_Lake_Unit_22_DTD_121H_sundry_attachments_11_16_2023_20231116113847.pdf

Well Name: POKER LAKE UNIT 22 DTD	**Well Location:** T24S / R30E / SEC 22 / NWNW /	**County or Parish/State:**
Well Number: 121H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM068905	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001549863	**Well Status:** Approved Application for Permit to Drill	**Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_22_24S_30E_NMP_Sundry_2761870_Poker_Lake_Unit_22_DTD_121H_COAs_20231226120440.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 03:56 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/121H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001549863

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 22/T24S/R30E/NMP

11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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

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

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: 1106 FNL & 115 FWL TO: 1011 FNL & 604 FWL of Section 22-T24S-R30E
BHL: FROM: 200 FNL & 754 FWL TO: 50 FNL & 860 FWL of Section 3-T24S-R30E
FTP: FROM: 100 FNL & 697 FWL TO: 500 FNL & 860 FWL of Section 22-T24S-R30E
LTP: FROM: 330 FNL & 753 FWL TO: 100 FNL & 860 FWL 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: NWNW / 1106 FNL / 115 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.207459 / LONG: -103.877218 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 100 FSL / 257 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.223256 / LONG: -103.866721 (TVD: 11324 feet, MD: 14332 feet)

PPP: SWSW / 100 FSL / 697 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210786 / LONG: -103.875333 (TVD: 11324 feet, MD: 11692 feet)

PPP: SWSW / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 (TVD: 11324 feet, MD: 16972 feet)

BHL: LOT 4 / 200 FNL / 754 FWL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253518 / LONG: -103.875121 (TVD: 11324 feet, MD: 27327 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 22 DTD 121H
LOCATION:	Sec 22-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2761870** 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 773 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 6137'**

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 **6** 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
30-015-49863	98220	Purple Sage; Wolfcamp (gas)

[4] Property Code	[5] Property Name	[6] Well Number
333192	POKER LAKE UNIT 22 DTD	121H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,406'

[10] Surface Location

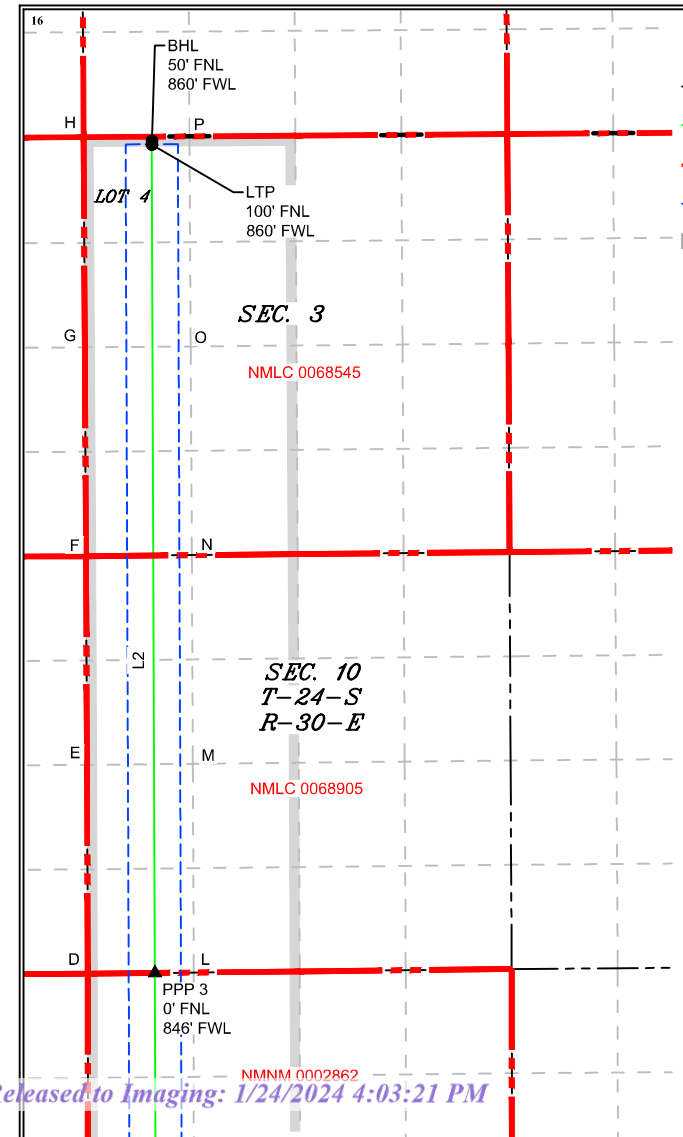
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	24S	30E		1,011	NORTH	604	WEST	EDDY

[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
4	3	24S	30E		50	NORTH	860	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
961.04			

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 2
T-24-S, R-30-E
LOT 4 = 40.37 ACRES

LINE TABLE		
LINE	AZUMITH	LENGTH
L1	026°19'32"	573.37'
L2	359°47'16"	16,294.29'

COORDINATE TABLE

	SHL (NAD 83 NME)	SHL (NAD 27 NME)
	Y = 439,607.9 N	Y = 439,548.7 N
	X = 682,898.0 E	X = 641,714.2 E
	LAT. = 32.207731 °N	LAT. = 32.207606 °N
	LONG. = 103.875636 °W	LONG. = 103.875150 °W
FTP	(NAD 83 NME)	(NAD 27 NME)
	Y = 440,121.80 N	Y = 440,062.70 N
	X = 683,152.30 E	X = 641,968.60 E
	LAT. = 32.20914 °N	LAT. = 32.209016 °N
	LONG. = 103.87481 °W	LONG. = 103.87432 °W
PPP	(NAD 83 NME)	(NAD 27 NME)
	Y = 440,621.8 N	Y = 440,562.7 N
	X = 683,150.5 E	X = 641,966.8 E
	LAT. = 32.210515 °N	LAT. = 32.210391 °N
	LONG. = 103.874806 °W	LONG. = 103.874319 °W
PPP #2	(NAD 83 NME)	(NAD 27 NME)
	Y = 443,262.8 N	Y = 443,203.6 N
	X = 683,140.8 E	X = 641,957.2 E
	LAT. = 32.217774 °N	LAT. = 32.217650 °N
	LONG. = 103.874801 °W	LONG. = 103.874314 °W
PPP #3	(NAD 83 NME)	(NAD 27 NME)
	Y = 445,898.3 N	Y = 445,839.1 N
	X = 683,131.0 E	X = 641,947.5 E
	LAT. = 32.225019 °N	LAT. = 32.224895 °N
	LONG. = 103.874796 °W	LONG. = 103.874309 °W
LTP	(NAD 83 NME)	(NAD 27 NME)
	Y = 456,366.0 N	Y = 456,306.5 N
	X = 683,092.2 E	X = 641,909.1 E
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	LONG. = 103.874777 °W	LONG. = 103.874288 °W
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[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	121H

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
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Last Take Point (LTP)

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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
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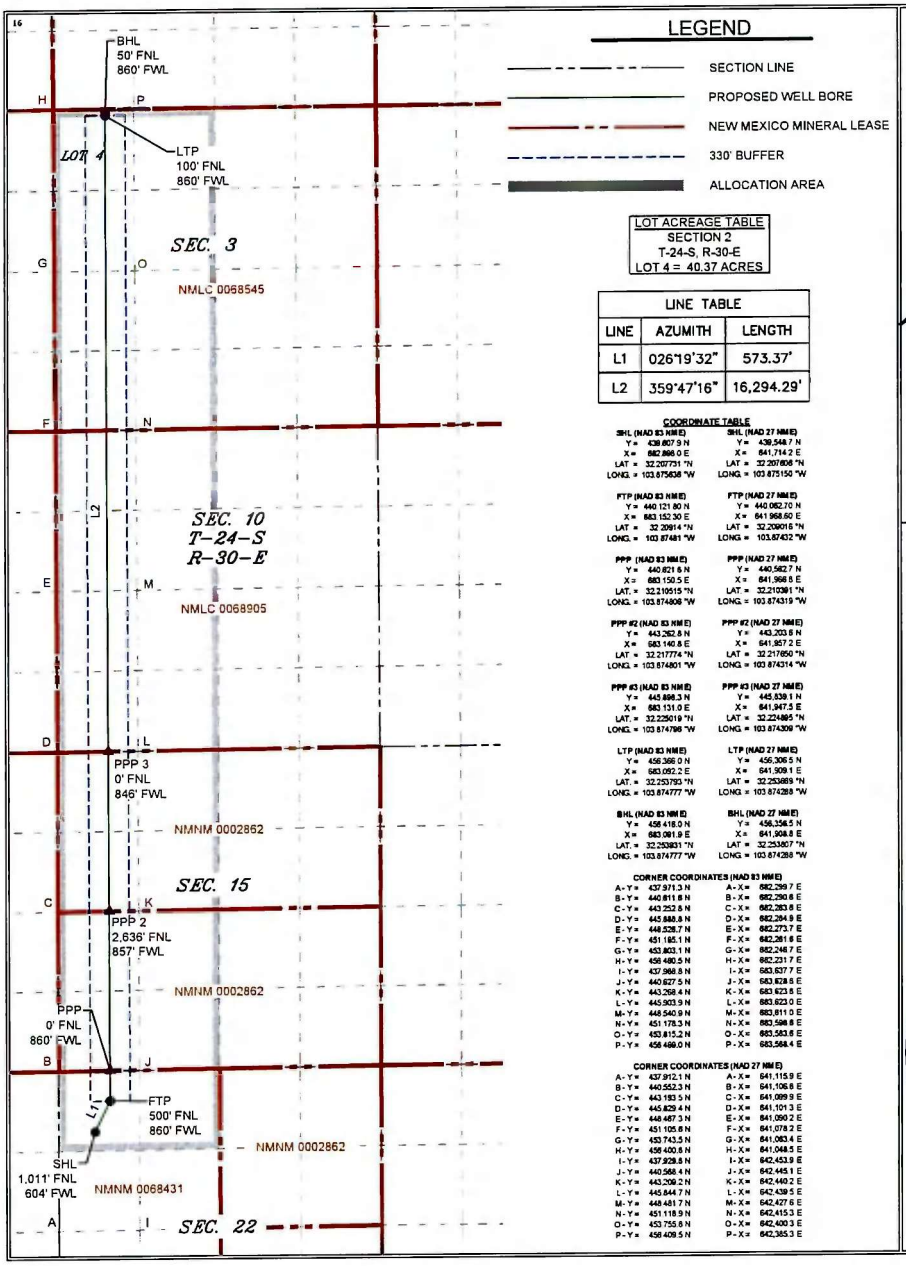

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	LAT.= 32.253931 °N	LAT.= 32.253807 °N
	LONG.= 103.874777 °W	LONG.= 103.874288 °W

CORNER COORDINATES (NAD 83 NME)

A - Y= 437,971.3 N		A - X= 682,299.7 E
B - Y= 440,611.8 N		B - X= 682,290.8 E
C - Y= 443,252.8 N		C - X= 682,283.6 E
D - Y= 445,888.8 N		D - X= 682,284.9 E
E - Y= 448,528.7 N		E - X= 682,273.7 E
F - Y= 451,185.1 N		F - X= 682,261.9 E
G - Y= 453,803.1 N		G - X= 682,246.7 E
H - Y= 456,480.5 N		H - X= 682,231.7 E
I - Y= 437,968.8 N		I - X= 683,637.7 E
J - Y= 440,627.5 N		J - X= 683,628.5 E
K - Y= 443,268.4 N		K - X= 683,623.9 E
L - Y= 445,903.9 N		L - X= 683,623.0 E
M - Y= 448,540.9 N		M - X= 683,611.0 E
N - Y= 451,178.3 N		N - X= 683,598.8 E
O - Y= 453,815.2 N		O - X= 683,583.8 E
P - Y= 456,489.0 N		P - X= 683,564.4 E

CORNER COORDINATES (NAD 27 NME)

A - Y= 437,912.1 N		A - X= 641,115.9 E
B - Y= 440,552.3 N		B - X= 641,106.8 E
C - Y= 443,193.5 N		C - X= 641,099.9 E
D - Y= 445,829.4 N		D - X= 641,101.3 E
E - Y= 448,467.7 N		E - X= 641,090.2 E
F - Y= 451,105.8 N		F - X= 641,078.2 E
G - Y= 453,743.5 N		G - X= 641,063.4 E
H - Y= 456,400.8 N		H - X= 641,048.5 E
I - Y= 437,929.8 N		I - X= 642,453.9 E
J - Y= 440,568.4 N		J - X= 642,445.1 E
K - Y= 443,209.2 N		K - X= 642,440.2 E
L - Y= 445,844.7 N		L - X= 642,439.5 E
M - Y= 448,481.7 N		M - X= 642,427.6 E
N - Y= 451,118.9 N		N - X= 642,415.3 E
O - Y= 453,755.8 N		O - X= 642,400.3 E
P - Y= 456,409.5 N		P - X= 642,385.3 E

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Signature 11-15-2023

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 618.013003.08-08

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.08 - PLU 22 DTD - EDDY\Wells\-08 - PLU 22 DTD - 121H\DWG\121H C-102.dwg

Intent [X] As Drilled [ ]

API #
30015

Operator Name:	Property Name:	Well Number
XTO PERMIAN OPERATING, LLC	Poker Lake Unit 22 DTD	121H

Kick Off Point (KOP)

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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 22 DTD 121H
Projected TD: 26336' MD / 9622' TVD
SHL: 1011' FNL & 604' FWL , Section 22, T24S, R30E
BHL: 50' FNL & 860' FWL , 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	673'	Water
Top of Salt	1078'	Water
Base of Salt	3704'	Water
Delaware	3956'	Water
Brushy Canyon	6137'	Water/Oil/Gas
Bone Spring	7790'	Water
1st Bone Spring	8584'	Water/Oil/Gas
2nd Bone Spring	9102'	Water/Oil/Gas
Target/Land Curve	9622'	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 @ 773' (305' 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 8706' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 26336 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8406 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 773'	13.375	54.5	J-55	BTC	New	1.27	3.31	21.58
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	2.34	2.26	3.64
12.25	4000' – 8706'	9.625	40	HC L-80	BTC	New	1.70	1.93	4.87
8.5	0' – 8606'	6	26	P-110	Semi-Flush	New	1.17	2.76	1.82
8.5	8606' - 26336'	6	26	P-110	Semi-Flush	New	1.17	2.47	2.05

· 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.
· 6 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 +/- 773'

Lead: 350 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 +/- 8706'
1st Stage
Optional Lead: 1040 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 @ 6137
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: 2160 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 (6137') 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: 6, 26 New Semi-Flush, P-110 casing to be set at +/- 26336'

Lead: 40 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8406 feet
Tail: 2960 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8917 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 3387 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' - 773'	17.5	FW/Native	8-9	35-40	NC
773' - 8706'	12.25	FW / Cut Brine / Direct Emulsion	8.5-9.5	30-32	NC
8706' - 26336'	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 5504 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 121H

30-015-49863

Measured Depth:	26335.68 ft
TVD RKB:	9622.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439548.70 ft
Easting:	641714.20 ft
RKB:	3438.00 ft
Ground Level:	3406.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan Sections POKER LAKE UNIT 22 DTD 121H

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	
1294.66	3.89	128.19	1294.51	-4.09	5.20	2.00	0.00	2.00	
5916.30	3.89	128.19	5905.49	-198.10	251.83	0.00	0.00	0.00	
6110.96	0.00	0.00	6100.00	-202.19	257.02	-2.00	0.00	2.00	
8916.77	0.00	0.00	8905.80	-202.19	257.02	0.00	0.00	0.00	
10041.77	90.00	359.79	9622.00	514.00	254.40	8.00	0.00	8.00	FTP 11
26285.68	90.00	359.79	9622.00	16757.80	194.90	0.00	0.00	0.00	LTP 11
26335.68	90.00	359.79	9622.00	16807.80	194.72	0.00	0.00	0.00	BHL 11

Position Uncertainty POKER LAKE UNIT 22 DTD 121H

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

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.582	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	128.191	1199.980	4.363	0.000	5.038	-0.000	2.692	0.000	0.000	5.039	4.364	129.776	MWD+IFR1+MS
1294.662	3.893	128.191	1294.513	5.130	0.000	5.334	-0.000	2.748	0.000	0.000	5.377	5.093	105.104	MWD+IFR1+MS
1300.000	3.893	128.191	1299.838	5.146	0.000	5.350	-0.000	2.750	0.000	0.000	5.393	5.109	104.957	MWD+IFR1+MS
1400.000	3.893	128.191	1399.607	5.452	0.000	5.649	-0.000	2.813	0.000	0.000	5.700	5.406	103.299	MWD+IFR1+MS
1500.000	3.893	128.191	1499.376	5.787	0.000	5.978	-0.000	2.879	0.000	0.000	6.054	5.715	99.686	MWD+IFR1+MS
1600.000	3.893	128.191	1599.146	6.125	0.000	6.311	-0.000	2.947	0.000	0.000	6.410	6.028	97.246	MWD+IFR1+MS
1700.000	3.893	128.191	1698.915	6.466	0.000	6.647	-0.000	3.018	0.000	0.000	6.767	6.345	95.523	MWD+IFR1+MS
1800.000	3.893	128.191	1798.684	6.808	0.000	6.986	-0.000	3.091	0.000	0.000	7.126	6.666	94.261	MWD+IFR1+MS
1900.000	3.893	128.191	1898.453	7.153	0.000	7.327	-0.000	3.166	0.000	0.000	7.485	6.991	93.308	MWD+IFR1+MS
2000.000	3.893	128.191	1998.223	7.499	0.000	7.671	-0.000	3.243	0.000	0.000	7.845	7.319	92.572	MWD+IFR1+MS
2100.000	3.893	128.191	2097.992	7.847	0.000	8.016	-0.000	3.321	0.000	0.000	8.205	7.651	91.992	MWD+IFR1+MS
2200.000	3.893	128.191	2197.761	8.196	0.000	8.363	-0.000	3.401	0.000	0.000	8.565	7.985	91.528	MWD+IFR1+MS
2300.000	3.893	128.191	2297.530	8.545	0.000	8.711	-0.000	3.483	0.000	0.000	8.925	8.322	91.154	MWD+IFR1+MS
2400.000	3.893	128.191	2397.299	8.896	0.000	9.061	-0.000	3.567	0.000	0.000	9.286	8.660	90.849	MWD+IFR1+MS
2500.000	3.893	128.191	2497.069	9.248	0.000	9.412	-0.000	3.652	0.000	0.000	9.647	9.001	90.600	MWD+IFR1+MS
2600.000	3.893	128.191	2596.838	9.600	0.000	9.763	-0.000	3.738	0.000	0.000	10.008	9.343	90.395	MWD+IFR1+MS
2700.000	3.893	128.191	2696.607	9.953	0.000	10.116	-0.000	3.826	0.000	0.000	10.369	9.687	90.227	MWD+IFR1+MS
2800.000	3.893	128.191	2796.376	10.307	0.000	10.470	-0.000	3.915	0.000	0.000	10.729	10.032	90.090	MWD+IFR1+MS
2900.000	3.893	128.191	2896.146	10.661	0.000	10.824	-0.000	4.005	0.000	0.000	11.091	10.379	89.978	MWD+IFR1+MS

3000.000	3.893	128.191	2995.915	11.016	0.000	11.179	-0.000	4.097	0.000	0.000	11.452	10.726	89.888	MWD+IFR1+MS
3100.000	3.893	128.191	3095.684	11.371	0.000	11.534	-0.000	4.190	0.000	0.000	11.813	11.075	89.816	MWD+IFR1+MS
3200.000	3.893	128.191	3195.453	11.727	0.000	11.890	-0.000	4.285	0.000	0.000	12.174	11.425	89.760	MWD+IFR1+MS
3300.000	3.893	128.191	3295.222	12.083	0.000	12.247	-0.000	4.380	0.000	0.000	12.535	11.775	89.718	MWD+IFR1+MS
3400.000	3.893	128.191	3394.992	12.439	0.000	12.604	-0.000	4.478	0.000	0.000	12.897	12.126	89.688	MWD+IFR1+MS
3500.000	3.893	128.191	3494.761	12.796	0.000	12.961	-0.000	4.576	0.000	0.000	13.258	12.478	89.668	MWD+IFR1+MS
3600.000	3.893	128.191	3594.530	13.152	0.000	13.319	-0.000	4.676	0.000	0.000	13.619	12.831	89.658	MWD+IFR1+MS
3700.000	3.893	128.191	3694.299	13.509	0.000	13.677	-0.000	4.777	0.000	0.000	13.980	13.184	89.657	MWD+IFR1+MS
3800.000	3.893	128.191	3794.069	13.867	0.000	14.035	-0.000	4.880	0.000	0.000	14.342	13.538	89.663	MWD+IFR1+MS
3900.000	3.893	128.191	3893.838	14.224	0.000	14.394	-0.000	4.984	0.000	0.000	14.703	13.892	89.676	MWD+IFR1+MS
4000.000	3.893	128.191	3993.607	14.582	0.000	14.753	-0.000	5.089	0.000	0.000	15.065	14.246	89.694	MWD+IFR1+MS
4100.000	3.893	128.191	4093.376	14.940	0.000	15.112	-0.000	5.196	0.000	0.000	15.426	14.602	89.719	MWD+IFR1+MS
4200.000	3.893	128.191	4193.146	15.298	0.000	15.472	-0.000	5.305	0.000	0.000	15.788	14.957	89.748	MWD+IFR1+MS
4300.000	3.893	128.191	4292.915	15.656	0.000	15.832	-0.000	5.415	0.000	0.000	16.149	15.313	89.782	MWD+IFR1+MS
4400.000	3.893	128.191	4392.684	16.015	0.000	16.192	-0.000	5.527	0.000	0.000	16.511	15.669	89.820	MWD+IFR1+MS
4500.000	3.893	128.191	4492.453	16.374	0.000	16.552	-0.000	5.640	0.000	0.000	16.872	16.026	89.862	MWD+IFR1+MS
4600.000	3.893	128.191	4592.222	16.732	0.000	16.912	-0.000	5.755	0.000	0.000	17.234	16.383	89.907	MWD+IFR1+MS
4700.000	3.893	128.191	4691.992	17.091	0.000	17.273	-0.000	5.872	0.000	0.000	17.595	16.740	89.956	MWD+IFR1+MS
4800.000	3.893	128.191	4791.761	17.450	0.000	17.633	-0.000	5.990	0.000	0.000	17.957	17.098	90.007	MWD+IFR1+MS
4900.000	3.893	128.191	4891.530	17.809	0.000	17.994	-0.000	6.110	0.000	0.000	18.318	17.455	90.062	MWD+IFR1+MS
5000.000	3.893	128.191	4991.299	18.168	0.000	18.355	-0.000	6.232	0.000	0.000	18.680	17.813	90.119	MWD+IFR1+MS
5100.000	3.893	128.191	5091.069	18.528	0.000	18.716	-0.000	6.356	0.000	0.000	19.041	18.171	90.178	MWD+IFR1+MS
5200.000	3.893	128.191	5190.838	18.887	0.000	19.077	-0.000	6.482	0.000	0.000	19.403	18.530	90.240	MWD+IFR1+MS
5300.000	3.893	128.191	5290.607	19.246	0.000	19.439	-0.000	6.609	0.000	0.000	19.765	18.888	90.304	MWD+IFR1+MS
5400.000	3.893	128.191	5390.376	19.606	0.000	19.800	-0.000	6.739	0.000	0.000	20.126	19.247	90.370	MWD+IFR1+MS
5500.000	3.893	128.191	5490.146	19.966	0.000	20.162	-0.000	6.870	0.000	0.000	20.488	19.606	90.438	MWD+IFR1+MS
5600.000	3.893	128.191	5589.915	20.325	0.000	20.524	-0.000	7.004	0.000	0.000	20.850	19.965	90.507	MWD+IFR1+MS
5700.000	3.893	128.191	5689.684	20.685	0.000	20.885	-0.000	7.139	0.000	0.000	21.211	20.325	90.579	MWD+IFR1+MS
5800.000	3.893	128.191	5789.453	21.045	0.000	21.247	-0.000	7.277	0.000	0.000	21.573	20.684	90.651	MWD+IFR1+MS
5900.000	3.893	128.191	5889.222	21.405	0.000	21.609	-0.000	7.417	0.000	0.000	21.935	21.044	90.726	MWD+IFR1+MS
5916.303	3.893	128.191	5905.487	21.462	0.000	21.667	-0.000	7.440	0.000	0.000	21.991	21.102	90.759	MWD+IFR1+MS
6000.000	2.219	128.191	5989.063	21.771	0.000	21.963	-0.000	7.559	0.000	0.000	22.291	21.408	90.355	MWD+IFR1+MS
6100.000	0.219	128.191	6089.035	22.200	0.000	22.318	-0.000	7.701	0.000	0.000	22.703	21.802	87.099	MWD+IFR1+MS

6110.965	0.000	0.000	6100.000	22.738	0.000	21.842	0.000	7.717	0.000	0.000	22.740	21.839	87.096	MWD+IFR1+MS
6200.000	0.000	0.000	6189.035	23.028	0.000	22.138	0.000	7.845	0.000	0.000	23.030	22.135	87.263	MWD+IFR1+MS
6300.000	0.000	0.000	6289.035	23.359	0.000	22.476	0.000	7.990	0.000	0.000	23.360	22.475	87.748	MWD+IFR1+MS
6400.000	0.000	0.000	6389.035	23.692	0.000	22.816	0.000	8.137	0.000	0.000	23.692	22.815	88.283	MWD+IFR1+MS
6500.000	0.000	0.000	6489.035	24.025	0.000	23.156	0.000	8.287	0.000	0.000	24.025	23.156	88.812	MWD+IFR1+MS
6600.000	0.000	0.000	6589.035	24.359	0.000	23.497	0.000	8.440	0.000	0.000	24.359	23.497	89.336	MWD+IFR1+MS
6700.000	0.000	0.000	6689.035	24.694	0.000	23.839	0.000	8.595	0.000	0.000	24.694	23.839	89.854	MWD+IFR1+MS
6800.000	0.000	0.000	6789.035	25.029	0.000	24.181	0.000	8.752	0.000	0.000	25.029	24.181	90.365	MWD+IFR1+MS
6900.000	0.000	0.000	6889.035	25.365	0.000	24.523	0.000	8.912	0.000	0.000	25.366	24.523	90.870	MWD+IFR1+MS
7000.000	0.000	0.000	6989.035	25.702	0.000	24.866	0.000	9.074	0.000	0.000	25.702	24.866	91.368	MWD+IFR1+MS
7100.000	0.000	0.000	7089.035	26.039	0.000	25.210	0.000	9.239	0.000	0.000	26.040	25.209	91.860	MWD+IFR1+MS
7200.000	0.000	0.000	7189.035	26.377	0.000	25.554	0.000	9.407	0.000	0.000	26.378	25.552	92.344	MWD+IFR1+MS
7300.000	0.000	0.000	7289.035	26.715	0.000	25.898	0.000	9.577	0.000	0.000	26.717	25.896	92.822	MWD+IFR1+MS
7400.000	0.000	0.000	7389.035	27.054	0.000	26.242	0.000	9.749	0.000	0.000	27.057	26.240	93.292	MWD+IFR1+MS
7500.000	0.000	0.000	7489.035	27.394	0.000	26.587	0.000	9.925	0.000	0.000	27.397	26.584	93.756	MWD+IFR1+MS
7600.000	0.000	0.000	7589.035	27.733	0.000	26.932	0.000	10.103	0.000	0.000	27.738	26.928	94.211	MWD+IFR1+MS
7700.000	0.000	0.000	7689.035	28.074	0.000	27.278	0.000	10.283	0.000	0.000	28.079	27.273	94.660	MWD+IFR1+MS
7800.000	0.000	0.000	7789.035	28.415	0.000	27.624	0.000	10.467	0.000	0.000	28.421	27.618	95.101	MWD+IFR1+MS
7900.000	0.000	0.000	7889.035	28.756	0.000	27.970	0.000	10.653	0.000	0.000	28.763	27.963	95.534	MWD+IFR1+MS
8000.000	0.000	0.000	7989.035	29.097	0.000	28.317	0.000	10.842	0.000	0.000	29.106	28.308	95.960	MWD+IFR1+MS
8100.000	0.000	0.000	8089.035	29.439	0.000	28.664	0.000	11.033	0.000	0.000	29.449	28.654	96.379	MWD+IFR1+MS
8200.000	0.000	0.000	8189.035	29.782	0.000	29.011	0.000	11.228	0.000	0.000	29.793	29.000	96.790	MWD+IFR1+MS
8300.000	0.000	0.000	8289.035	30.124	0.000	29.358	0.000	11.425	0.000	0.000	30.137	29.346	97.194	MWD+IFR1+MS
8400.000	0.000	0.000	8389.035	30.468	0.000	29.706	0.000	11.625	0.000	0.000	30.481	29.692	97.591	MWD+IFR1+MS
8500.000	0.000	0.000	8489.035	30.811	0.000	30.054	0.000	11.828	0.000	0.000	30.826	30.039	97.980	MWD+IFR1+MS
8600.000	0.000	0.000	8589.035	31.155	0.000	30.402	0.000	12.033	0.000	0.000	31.171	30.385	98.362	MWD+IFR1+MS
8700.000	0.000	0.000	8689.035	31.499	0.000	30.751	0.000	12.242	0.000	0.000	31.517	30.732	98.737	MWD+IFR1+MS
8800.000	0.000	0.000	8789.035	31.843	0.000	31.099	0.000	12.453	0.000	0.000	31.863	31.079	99.105	MWD+IFR1+MS
8900.000	0.000	0.000	8889.035	32.188	0.000	31.448	0.000	12.667	0.000	0.000	32.209	31.427	99.465	MWD+IFR1+MS
8916.768	0.000	0.000	8905.803	32.245	0.000	31.506	0.000	12.703	0.000	0.000	32.266	31.484	99.463	MWD+IFR1+MS
9000.000	6.659	359.790	8988.848	32.430	0.000	31.791	0.000	12.887	0.000	0.000	32.707	31.769	98.591	MWD+IFR1+MS
9100.000	14.659	359.790	9087.043	33.074	0.000	32.128	0.000	13.193	0.000	0.000	34.074	32.104	96.005	MWD+IFR1+MS
9200.000	22.659	359.790	9181.710	33.385	0.000	32.453	0.000	13.709	0.000	0.000	35.483	32.424	95.276	MWD+IFR1+MS

9300.000	30.659	359.790	9271.007	33.196	0.000	32.761	0.000	14.493	0.000	0.000	36.696	32.725	95.085	MWD+IFR1+MS
9400.000	38.659	359.790	9353.196	32.570	0.000	33.050	0.000	15.569	0.000	0.000	37.701	33.007	95.098	MWD+IFR1+MS
9500.000	46.659	359.790	9426.676	31.597	0.000	33.319	0.000	16.920	0.000	0.000	38.493	33.268	95.223	MWD+IFR1+MS
9600.000	54.659	359.790	9490.019	30.391	0.000	33.567	0.000	18.498	0.000	0.000	39.081	33.509	95.421	MWD+IFR1+MS
9700.000	62.659	359.790	9541.990	29.099	0.000	33.793	0.000	20.240	0.000	0.000	39.482	33.728	95.670	MWD+IFR1+MS
9800.000	70.659	359.790	9581.579	27.897	0.000	33.999	0.000	22.079	0.000	0.000	39.724	33.927	95.948	MWD+IFR1+MS
9900.000	78.659	359.790	9608.015	26.981	0.000	34.183	0.000	23.948	0.000	0.000	39.841	34.105	96.225	MWD+IFR1+MS
10000.000	86.659	359.790	9620.782	26.542	0.000	34.344	0.000	25.789	0.000	0.000	39.879	34.263	96.454	MWD+IFR1+MS
10041.768	90.000	359.790	9622.000	25.993	0.000	34.402	0.000	25.993	0.000	0.000	39.883	34.319	96.510	MWD+IFR1+MS
10100.000	90.000	359.790	9622.000	26.106	0.000	34.483	0.000	26.106	0.000	0.000	39.887	34.400	96.587	MWD+IFR1+MS
10200.000	90.000	359.790	9622.000	26.274	0.000	34.644	0.000	26.274	0.000	0.000	39.893	34.560	96.752	MWD+IFR1+MS
10300.000	90.000	359.790	9622.000	26.466	0.000	34.829	0.000	26.466	0.000	0.000	39.900	34.743	96.956	MWD+IFR1+MS
10400.000	90.000	359.790	9622.000	26.679	0.000	35.036	0.000	26.679	0.000	0.000	39.908	34.948	97.204	MWD+IFR1+MS
10500.000	90.000	359.790	9622.000	26.914	0.000	35.263	0.000	26.914	0.000	0.000	39.917	35.172	97.502	MWD+IFR1+MS
10600.000	90.000	359.790	9622.000	27.170	0.000	35.511	0.000	27.170	0.000	0.000	39.928	35.416	97.861	MWD+IFR1+MS
10700.000	90.000	359.790	9622.000	27.445	0.000	35.778	0.000	27.445	0.000	0.000	39.940	35.680	98.296	MWD+IFR1+MS
10800.000	90.000	359.790	9622.000	27.740	0.000	36.065	0.000	27.740	0.000	0.000	39.953	35.961	98.826	MWD+IFR1+MS
10900.000	90.000	359.790	9622.000	28.054	0.000	36.371	0.000	28.054	0.000	0.000	39.968	36.261	99.477	MWD+IFR1+MS
11000.000	90.000	359.790	9622.000	28.387	0.000	36.696	0.000	28.387	0.000	0.000	39.985	36.578	100.289	MWD+IFR1+MS
11100.000	90.000	359.790	9622.000	28.736	0.000	37.039	0.000	28.736	0.000	0.000	40.005	36.910	101.318	MWD+IFR1+MS
11200.000	90.000	359.790	9622.000	29.103	0.000	37.399	0.000	29.103	0.000	0.000	40.029	37.257	102.649	MWD+IFR1+MS
11300.000	90.000	359.790	9622.000	29.486	0.000	37.777	0.000	29.486	0.000	0.000	40.058	37.616	104.420	MWD+IFR1+MS
11400.000	90.000	359.790	9622.000	29.885	0.000	38.171	0.000	29.885	0.000	0.000	40.095	37.985	106.852	MWD+IFR1+MS
11500.000	90.000	359.790	9622.000	30.299	0.000	38.581	0.000	30.299	0.000	0.000	40.145	38.357	110.314	MWD+IFR1+MS
11600.000	90.000	359.790	9622.000	30.727	0.000	39.007	0.000	30.727	0.000	0.000	40.217	38.723	115.411	MWD+IFR1+MS
11700.000	90.000	359.790	9622.000	31.169	0.000	39.448	0.000	31.169	0.000	0.000	40.327	39.067	122.942	MWD+IFR1+MS
11800.000	90.000	359.790	9622.000	31.625	0.000	39.903	0.000	31.625	0.000	0.000	40.505	39.358	133.177	MWD+IFR1+MS
11900.000	90.000	359.790	9622.000	32.093	0.000	40.373	0.000	32.093	0.000	0.000	40.773	39.573	-35.696	MWD+IFR1+MS
12000.000	90.000	359.790	9622.000	32.574	0.000	40.856	0.000	32.574	0.000	0.000	41.130	39.714	-26.502	MWD+IFR1+MS
12100.000	90.000	359.790	9622.000	33.066	0.000	41.352	0.000	33.066	0.000	0.000	41.549	39.806	-20.064	MWD+IFR1+MS
12200.000	90.000	359.790	9622.000	33.569	0.000	41.861	0.000	33.569	0.000	0.000	42.010	39.869	-15.724	MWD+IFR1+MS
12300.000	90.000	359.790	9622.000	34.083	0.000	42.382	0.000	34.083	0.000	0.000	42.500	39.917	-12.732	MWD+IFR1+MS
12400.000	90.000	359.790	9622.000	34.607	0.000	42.915	0.000	34.607	0.000	0.000	43.011	39.956	-10.592	MWD+IFR1+MS

12500.000	90.000	359.790	9622.000	35.140	0.000	43.459	0.000	35.140	0.000	0.000	43.539	39.989	-9.005	MWD+IFR1+MS
12600.000	90.000	359.790	9622.000	35.683	0.000	44.014	0.000	35.683	0.000	0.000	44.081	40.019	-7.789	MWD+IFR1+MS
12700.000	90.000	359.790	9622.000	36.235	0.000	44.579	0.000	36.235	0.000	0.000	44.637	40.046	-6.833	MWD+IFR1+MS
12800.000	90.000	359.790	9622.000	36.796	0.000	45.155	0.000	36.796	0.000	0.000	45.205	40.073	-6.064	MWD+IFR1+MS
12900.000	90.000	359.790	9622.000	37.364	0.000	45.740	0.000	37.364	0.000	0.000	45.785	40.098	-5.434	MWD+IFR1+MS
13000.000	90.000	359.790	9622.000	37.940	0.000	46.335	0.000	37.940	0.000	0.000	46.374	40.123	-4.910	MWD+IFR1+MS
13100.000	90.000	359.790	9622.000	38.524	0.000	46.939	0.000	38.524	0.000	0.000	46.974	40.148	-4.467	MWD+IFR1+MS
13200.000	90.000	359.790	9622.000	39.114	0.000	47.551	0.000	39.114	0.000	0.000	47.582	40.172	-4.089	MWD+IFR1+MS
13300.000	90.000	359.790	9622.000	39.711	0.000	48.172	0.000	39.711	0.000	0.000	48.200	40.196	-3.763	MWD+IFR1+MS
13400.000	90.000	359.790	9622.000	40.315	0.000	48.800	0.000	40.315	0.000	0.000	48.826	40.221	-3.480	MWD+IFR1+MS
13500.000	90.000	359.790	9622.000	40.925	0.000	49.437	0.000	40.925	0.000	0.000	49.460	40.246	-3.231	MWD+IFR1+MS
13600.000	90.000	359.790	9622.000	41.541	0.000	50.080	0.000	41.541	0.000	0.000	50.102	40.270	-3.012	MWD+IFR1+MS
13700.000	90.000	359.790	9622.000	42.162	0.000	50.731	0.000	42.162	0.000	0.000	50.751	40.296	-2.817	MWD+IFR1+MS
13800.000	90.000	359.790	9622.000	42.789	0.000	51.389	0.000	42.789	0.000	0.000	51.407	40.321	-2.642	MWD+IFR1+MS
13900.000	90.000	359.790	9622.000	43.420	0.000	52.053	0.000	43.420	0.000	0.000	52.070	40.347	-2.486	MWD+IFR1+MS
14000.000	90.000	359.790	9622.000	44.057	0.000	52.724	0.000	44.057	0.000	0.000	52.739	40.373	-2.345	MWD+IFR1+MS
14100.000	90.000	359.790	9622.000	44.699	0.000	53.401	0.000	44.699	0.000	0.000	53.415	40.400	-2.217	MWD+IFR1+MS
14200.000	90.000	359.790	9622.000	45.345	0.000	54.083	0.000	45.345	0.000	0.000	54.096	40.427	-2.100	MWD+IFR1+MS
14300.000	90.000	359.790	9622.000	45.995	0.000	54.772	0.000	45.995	0.000	0.000	54.784	40.454	-1.994	MWD+IFR1+MS
14400.000	90.000	359.790	9622.000	46.649	0.000	55.465	0.000	46.649	0.000	0.000	55.477	40.482	-1.897	MWD+IFR1+MS
14500.000	90.000	359.790	9622.000	47.308	0.000	56.164	0.000	47.308	0.000	0.000	56.175	40.510	-1.808	MWD+IFR1+MS
14600.000	90.000	359.790	9622.000	47.970	0.000	56.868	0.000	47.970	0.000	0.000	56.878	40.539	-1.725	MWD+IFR1+MS
14700.000	90.000	359.790	9622.000	48.636	0.000	57.577	0.000	48.636	0.000	0.000	57.586	40.568	-1.650	MWD+IFR1+MS
14800.000	90.000	359.790	9622.000	49.305	0.000	58.291	0.000	49.305	0.000	0.000	58.299	40.597	-1.579	MWD+IFR1+MS
14900.000	90.000	359.790	9622.000	49.978	0.000	59.009	0.000	49.978	0.000	0.000	59.017	40.627	-1.514	MWD+IFR1+MS
15000.000	90.000	359.790	9622.000	50.654	0.000	59.731	0.000	50.654	0.000	0.000	59.739	40.658	-1.454	MWD+IFR1+MS
15100.000	90.000	359.790	9622.000	51.333	0.000	60.458	0.000	51.333	0.000	0.000	60.465	40.689	-1.397	MWD+IFR1+MS
15200.000	90.000	359.790	9622.000	52.015	0.000	61.189	0.000	52.015	0.000	0.000	61.195	40.720	-1.344	MWD+IFR1+MS
15300.000	90.000	359.790	9622.000	52.700	0.000	61.923	0.000	52.700	0.000	0.000	61.929	40.752	-1.295	MWD+IFR1+MS
15400.000	90.000	359.790	9622.000	53.387	0.000	62.661	0.000	53.387	0.000	0.000	62.667	40.784	-1.249	MWD+IFR1+MS
15500.000	90.000	359.790	9622.000	54.078	0.000	63.403	0.000	54.078	0.000	0.000	63.409	40.817	-1.206	MWD+IFR1+MS
15600.000	90.000	359.790	9622.000	54.770	0.000	64.149	0.000	54.770	0.000	0.000	64.154	40.851	-1.165	MWD+IFR1+MS
15700.000	90.000	359.790	9622.000	55.466	0.000	64.898	0.000	55.466	0.000	0.000	64.903	40.884	-1.127	MWD+IFR1+MS

15800.000	90.000	359.790	9622.000	56.163	0.000	65.650	0.000	56.163	0.000	0.000	65.655	40.919	-1.091	MWD+IFR1+MS
15900.000	90.000	359.790	9622.000	56.863	0.000	66.405	0.000	56.863	0.000	0.000	66.410	40.953	-1.057	MWD+IFR1+MS
16000.000	90.000	359.790	9622.000	57.565	0.000	67.164	0.000	57.565	0.000	0.000	67.168	40.989	-1.025	MWD+IFR1+MS
16100.000	90.000	359.790	9622.000	58.269	0.000	67.925	0.000	58.269	0.000	0.000	67.929	41.024	-0.995	MWD+IFR1+MS
16200.000	90.000	359.790	9622.000	58.976	0.000	68.689	0.000	58.976	0.000	0.000	68.693	41.060	-0.966	MWD+IFR1+MS
16300.000	90.000	359.790	9622.000	59.684	0.000	69.456	0.000	59.684	0.000	0.000	69.460	41.097	-0.939	MWD+IFR1+MS
16400.000	90.000	359.790	9622.000	60.394	0.000	70.226	0.000	60.394	0.000	0.000	70.229	41.134	-0.913	MWD+IFR1+MS
16500.000	90.000	359.790	9622.000	61.106	0.000	70.998	0.000	61.106	0.000	0.000	71.001	41.172	-0.889	MWD+IFR1+MS
16600.000	90.000	359.790	9622.000	61.819	0.000	71.773	0.000	61.819	0.000	0.000	71.776	41.210	-0.865	MWD+IFR1+MS
16700.000	90.000	359.790	9622.000	62.535	0.000	72.550	0.000	62.535	0.000	0.000	72.553	41.248	-0.843	MWD+IFR1+MS
16800.000	90.000	359.790	9622.000	63.252	0.000	73.329	0.000	63.252	0.000	0.000	73.332	41.287	-0.822	MWD+IFR1+MS
16900.000	90.000	359.790	9622.000	63.970	0.000	74.111	0.000	63.970	0.000	0.000	74.114	41.327	-0.802	MWD+IFR1+MS
17000.000	90.000	359.790	9622.000	64.691	0.000	74.895	0.000	64.691	0.000	0.000	74.897	41.367	-0.783	MWD+IFR1+MS
17100.000	90.000	359.790	9622.000	65.412	0.000	75.681	0.000	65.412	0.000	0.000	75.683	41.407	-0.765	MWD+IFR1+MS
17200.000	90.000	359.790	9622.000	66.135	0.000	76.469	0.000	66.135	0.000	0.000	76.471	41.448	-0.747	MWD+IFR1+MS
17300.000	90.000	359.790	9622.000	66.860	0.000	77.259	0.000	66.860	0.000	0.000	77.261	41.489	-0.730	MWD+IFR1+MS
17400.000	90.000	359.790	9622.000	67.586	0.000	78.051	0.000	67.586	0.000	0.000	78.053	41.531	-0.715	MWD+IFR1+MS
17500.000	90.000	359.790	9622.000	68.313	0.000	78.845	0.000	68.313	0.000	0.000	78.847	41.573	-0.699	MWD+IFR1+MS
17600.000	90.000	359.790	9622.000	69.041	0.000	79.641	0.000	69.041	0.000	0.000	79.643	41.616	-0.685	MWD+IFR1+MS
17700.000	90.000	359.790	9622.000	69.771	0.000	80.438	0.000	69.771	0.000	0.000	80.440	41.659	-0.671	MWD+IFR1+MS
17800.000	90.000	359.790	9622.000	70.502	0.000	81.238	0.000	70.502	0.000	0.000	81.240	41.703	-0.657	MWD+IFR1+MS
17900.000	90.000	359.790	9622.000	71.233	0.000	82.039	0.000	71.233	0.000	0.000	82.040	41.747	-0.644	MWD+IFR1+MS
18000.000	90.000	359.790	9622.000	71.967	0.000	82.841	0.000	71.967	0.000	0.000	82.843	41.792	-0.632	MWD+IFR1+MS
18100.000	90.000	359.790	9622.000	72.701	0.000	83.645	0.000	72.701	0.000	0.000	83.647	41.837	-0.620	MWD+IFR1+MS
18200.000	90.000	359.790	9622.000	73.436	0.000	84.451	0.000	73.436	0.000	0.000	84.453	41.882	-0.609	MWD+IFR1+MS
18300.000	90.000	359.790	9622.000	74.172	0.000	85.258	0.000	74.172	0.000	0.000	85.260	41.928	-0.598	MWD+IFR1+MS
18400.000	90.000	359.790	9622.000	74.909	0.000	86.067	0.000	74.909	0.000	0.000	86.068	41.975	-0.587	MWD+IFR1+MS
18500.000	90.000	359.790	9622.000	75.647	0.000	86.877	0.000	75.647	0.000	0.000	86.878	42.022	-0.577	MWD+IFR1+MS
18600.000	90.000	359.790	9622.000	76.386	0.000	87.688	0.000	76.386	0.000	0.000	87.689	42.069	-0.567	MWD+IFR1+MS
18700.000	90.000	359.790	9622.000	77.126	0.000	88.501	0.000	77.126	0.000	0.000	88.502	42.117	-0.558	MWD+IFR1+MS
18800.000	90.000	359.790	9622.000	77.867	0.000	89.315	0.000	77.867	0.000	0.000	89.316	42.165	-0.549	MWD+IFR1+MS
18900.000	90.000	359.790	9622.000	78.609	0.000	90.130	0.000	78.609	0.000	0.000	90.131	42.214	-0.540	MWD+IFR1+MS
19000.000	90.000	359.790	9622.000	79.351	0.000	90.946	0.000	79.351	0.000	0.000	90.947	42.263	-0.531	MWD+IFR1+MS

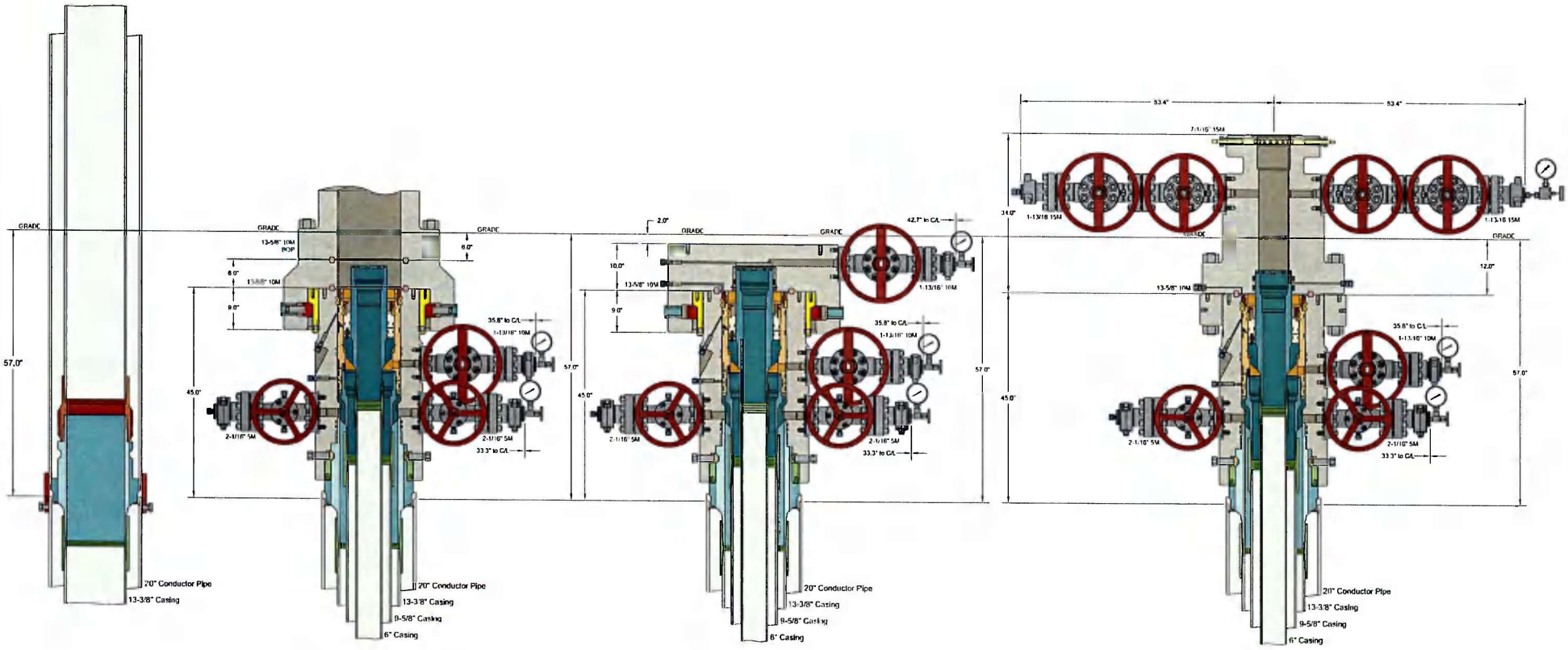
19100.000	90.000	359.790	9622.000	80.095	0.000	91.764	0.000	80.095	0.000	0.000	91.765	42.312	-0.523	MWD+IFR1+MS
19200.000	90.000	359.790	9622.000	80.839	0.000	92.583	0.000	80.839	0.000	0.000	92.584	42.362	-0.515	MWD+IFR1+MS
19300.000	90.000	359.790	9622.000	81.584	0.000	93.403	0.000	81.584	0.000	0.000	93.404	42.413	-0.508	MWD+IFR1+MS
19400.000	90.000	359.790	9622.000	82.329	0.000	94.224	0.000	82.329	0.000	0.000	94.225	42.464	-0.500	MWD+IFR1+MS
19500.000	90.000	359.790	9622.000	83.076	0.000	95.046	0.000	83.076	0.000	0.000	95.047	42.515	-0.493	MWD+IFR1+MS
19600.000	90.000	359.790	9622.000	83.823	0.000	95.869	0.000	83.823	0.000	0.000	95.870	42.567	-0.486	MWD+IFR1+MS
19700.000	90.000	359.790	9622.000	84.571	0.000	96.693	0.000	84.571	0.000	0.000	96.694	42.619	-0.480	MWD+IFR1+MS
19800.000	90.000	359.790	9622.000	85.319	0.000	97.518	0.000	85.319	0.000	0.000	97.519	42.672	-0.473	MWD+IFR1+MS
19900.000	90.000	359.790	9622.000	86.068	0.000	98.344	0.000	86.068	0.000	0.000	98.345	42.725	-0.467	MWD+IFR1+MS
20000.000	90.000	359.790	9622.000	86.818	0.000	99.171	0.000	86.818	0.000	0.000	99.172	42.779	-0.461	MWD+IFR1+MS
20100.000	90.000	359.790	9622.000	87.568	0.000	99.999	0.000	87.568	0.000	0.000	100.000	42.833	-0.455	MWD+IFR1+MS
20200.000	90.000	359.790	9622.000	88.319	0.000	100.828	0.000	88.319	0.000	0.000	100.829	42.887	-0.450	MWD+IFR1+MS
20300.000	90.000	359.790	9622.000	89.070	0.000	101.658	0.000	89.070	0.000	0.000	101.658	42.942	-0.444	MWD+IFR1+MS
20400.000	90.000	359.790	9622.000	89.822	0.000	102.488	0.000	89.822	0.000	0.000	102.489	42.997	-0.439	MWD+IFR1+MS
20500.000	90.000	359.790	9622.000	90.575	0.000	103.320	0.000	90.575	0.000	0.000	103.320	43.053	-0.434	MWD+IFR1+MS
20600.000	90.000	359.790	9622.000	91.328	0.000	104.152	0.000	91.328	0.000	0.000	104.152	43.109	-0.429	MWD+IFR1+MS
20700.000	90.000	359.790	9622.000	92.082	0.000	104.985	0.000	92.082	0.000	0.000	104.985	43.165	-0.424	MWD+IFR1+MS
20800.000	90.000	359.790	9622.000	92.836	0.000	105.819	0.000	92.836	0.000	0.000	105.819	43.222	-0.419	MWD+IFR1+MS
20900.000	90.000	359.790	9622.000	93.591	0.000	106.653	0.000	93.591	0.000	0.000	106.654	43.280	-0.415	MWD+IFR1+MS
21000.000	90.000	359.790	9622.000	94.346	0.000	107.488	0.000	94.346	0.000	0.000	107.489	43.337	-0.410	MWD+IFR1+MS
21100.000	90.000	359.790	9622.000	95.102	0.000	108.324	0.000	95.102	0.000	0.000	108.325	43.396	-0.406	MWD+IFR1+MS
21200.000	90.000	359.790	9622.000	95.858	0.000	109.161	0.000	95.858	0.000	0.000	109.162	43.454	-0.402	MWD+IFR1+MS
21300.000	90.000	359.790	9622.000	96.614	0.000	109.998	0.000	96.614	0.000	0.000	109.999	43.513	-0.398	MWD+IFR1+MS
21400.000	90.000	359.790	9622.000	97.371	0.000	110.836	0.000	97.371	0.000	0.000	110.837	43.573	-0.394	MWD+IFR1+MS
21500.000	90.000	359.790	9622.000	98.129	0.000	111.675	0.000	98.129	0.000	0.000	111.676	43.633	-0.390	MWD+IFR1+MS
21600.000	90.000	359.790	9622.000	98.887	0.000	112.514	0.000	98.887	0.000	0.000	112.515	43.693	-0.386	MWD+IFR1+MS
21700.000	90.000	359.790	9622.000	99.645	0.000	113.354	0.000	99.645	0.000	0.000	113.355	43.754	-0.382	MWD+IFR1+MS
21800.000	90.000	359.790	9622.000	100.404	0.000	114.195	0.000	100.404	0.000	0.000	114.195	43.815	-0.379	MWD+IFR1+MS
21900.000	90.000	359.790	9622.000	101.163	0.000	115.036	0.000	101.163	0.000	0.000	115.037	43.876	-0.375	MWD+IFR1+MS
22000.000	90.000	359.790	9622.000	101.922	0.000	115.878	0.000	101.922	0.000	0.000	115.878	43.938	-0.372	MWD+IFR1+MS
22100.000	90.000	359.790	9622.000	102.682	0.000	116.720	0.000	102.682	0.000	0.000	116.721	44.000	-0.369	MWD+IFR1+MS
22200.000	90.000	359.790	9622.000	103.442	0.000	117.563	0.000	103.442	0.000	0.000	117.564	44.063	-0.365	MWD+IFR1+MS
22300.000	90.000	359.790	9622.000	104.203	0.000	118.407	0.000	104.203	0.000	0.000	118.407	44.126	-0.362	MWD+IFR1+MS

22400.000	90.000	359.790	9622.000	104.964	0.000	119.251	0.000	104.964	0.000	0.000	119.251	44.189	-0.359	MWD+IFR1+MS
22500.000	90.000	359.790	9622.000	105.725	0.000	120.095	0.000	105.725	0.000	0.000	120.096	44.253	-0.356	MWD+IFR1+MS
22600.000	90.000	359.790	9622.000	106.487	0.000	120.940	0.000	106.487	0.000	0.000	120.941	44.317	-0.354	MWD+IFR1+MS
22700.000	90.000	359.790	9622.000	107.249	0.000	121.786	0.000	107.249	0.000	0.000	121.786	44.382	-0.351	MWD+IFR1+MS
22800.000	90.000	359.790	9622.000	108.011	0.000	122.632	0.000	108.011	0.000	0.000	122.632	44.447	-0.348	MWD+IFR1+MS
22900.000	90.000	359.790	9622.000	108.774	0.000	123.478	0.000	108.774	0.000	0.000	123.479	44.513	-0.345	MWD+IFR1+MS
23000.000	90.000	359.790	9622.000	109.537	0.000	124.325	0.000	109.537	0.000	0.000	124.326	44.578	-0.343	MWD+IFR1+MS
23100.000	90.000	359.790	9622.000	110.300	0.000	125.173	0.000	110.300	0.000	0.000	125.173	44.644	-0.340	MWD+IFR1+MS
23200.000	90.000	359.790	9622.000	111.064	0.000	126.021	0.000	111.064	0.000	0.000	126.021	44.711	-0.338	MWD+IFR1+MS
23300.000	90.000	359.790	9622.000	111.828	0.000	126.869	0.000	111.828	0.000	0.000	126.869	44.778	-0.335	MWD+IFR1+MS
23400.000	90.000	359.790	9622.000	112.592	0.000	127.718	0.000	112.592	0.000	0.000	127.718	44.845	-0.333	MWD+IFR1+MS
23500.000	90.000	359.790	9622.000	113.356	0.000	128.567	0.000	113.356	0.000	0.000	128.568	44.913	-0.331	MWD+IFR1+MS
23600.000	90.000	359.790	9622.000	114.121	0.000	129.417	0.000	114.121	0.000	0.000	129.417	44.981	-0.328	MWD+IFR1+MS
23700.000	90.000	359.790	9622.000	114.886	0.000	130.267	0.000	114.886	0.000	0.000	130.267	45.049	-0.326	MWD+IFR1+MS
23800.000	90.000	359.790	9622.000	115.651	0.000	131.117	0.000	115.651	0.000	0.000	131.118	45.118	-0.324	MWD+IFR1+MS
23900.000	90.000	359.790	9622.000	116.417	0.000	131.968	0.000	116.417	0.000	0.000	131.969	45.187	-0.322	MWD+IFR1+MS
24000.000	90.000	359.790	9622.000	117.182	0.000	132.820	0.000	117.182	0.000	0.000	132.820	45.257	-0.320	MWD+IFR1+MS
24100.000	90.000	359.790	9622.000	117.948	0.000	133.671	0.000	117.948	0.000	0.000	133.671	45.327	-0.318	MWD+IFR1+MS
24200.000	90.000	359.790	9622.000	118.715	0.000	134.523	0.000	118.715	0.000	0.000	134.524	45.397	-0.316	MWD+IFR1+MS
24300.000	90.000	359.790	9622.000	119.481	0.000	135.376	0.000	119.481	0.000	0.000	135.376	45.468	-0.314	MWD+IFR1+MS
24400.000	90.000	359.790	9622.000	120.248	0.000	136.228	0.000	120.248	0.000	0.000	136.229	45.539	-0.312	MWD+IFR1+MS
24500.000	90.000	359.790	9622.000	121.015	0.000	137.082	0.000	121.015	0.000	0.000	137.082	45.610	-0.310	MWD+IFR1+MS
24600.000	90.000	359.790	9622.000	121.782	0.000	137.935	0.000	121.782	0.000	0.000	137.935	45.682	-0.309	MWD+IFR1+MS
24700.000	90.000	359.790	9622.000	122.549	0.000	138.789	0.000	122.549	0.000	0.000	138.789	45.754	-0.307	MWD+IFR1+MS
24800.000	90.000	359.790	9622.000	123.317	0.000	139.643	0.000	123.317	0.000	0.000	139.643	45.826	-0.305	MWD+IFR1+MS
24900.000	90.000	359.790	9622.000	124.085	0.000	140.497	0.000	124.085	0.000	0.000	140.498	45.899	-0.303	MWD+IFR1+MS
25000.000	90.000	359.790	9622.000	124.853	0.000	141.352	0.000	124.853	0.000	0.000	141.352	45.972	-0.302	MWD+IFR1+MS
25100.000	90.000	359.790	9622.000	125.621	0.000	142.207	0.000	125.621	0.000	0.000	142.207	46.046	-0.300	MWD+IFR1+MS
25200.000	90.000	359.790	9622.000	126.390	0.000	143.063	0.000	126.390	0.000	0.000	143.063	46.119	-0.299	MWD+IFR1+MS
25300.000	90.000	359.790	9622.000	127.158	0.000	143.918	0.000	127.158	0.000	0.000	143.919	46.194	-0.297	MWD+IFR1+MS
25400.000	90.000	359.790	9622.000	127.927	0.000	144.774	0.000	127.927	0.000	0.000	144.775	46.268	-0.296	MWD+IFR1+MS
25500.000	90.000	359.790	9622.000	128.696	0.000	145.631	0.000	128.696	0.000	0.000	145.631	46.343	-0.294	MWD+IFR1+MS
25600.000	90.000	359.790	9622.000	129.466	0.000	146.487	0.000	129.466	0.000	0.000	146.487	46.418	-0.293	MWD+IFR1+MS

25700.000	90.000	359.790	9622.000	130.235	0.000	147.344	0.000	130.235	0.000	0.000	147.344	46.494	-0.291	MWD+IFR1+MS
25800.000	90.000	359.790	9622.000	131.005	0.000	148.201	0.000	131.005	0.000	0.000	148.201	46.569	-0.290	MWD+IFR1+MS
25900.000	90.000	359.790	9622.000	131.774	0.000	149.059	0.000	131.774	0.000	0.000	149.059	46.646	-0.288	MWD+IFR1+MS
26000.000	90.000	359.790	9622.000	132.544	0.000	149.916	0.000	132.544	0.000	0.000	149.917	46.722	-0.287	MWD+IFR1+MS
26100.000	90.000	359.790	9622.000	133.314	0.000	150.774	0.000	133.314	0.000	0.000	150.775	46.799	-0.286	MWD+IFR1+MS
26200.000	90.000	359.790	9622.000	134.085	0.000	151.633	0.000	134.085	0.000	0.000	151.633	46.876	-0.285	MWD+IFR1+MS
26285.677	90.000	359.790	9622.000	134.745	0.000	152.368	0.000	134.745	0.000	0.000	152.368	46.943	-0.283	MWD+IFR1+MS
26300.000	90.000	359.790	9622.000	134.855	0.000	152.490	0.000	134.855	0.000	0.000	152.490	46.954	-0.283	MWD+IFR1+MS
26335.676	90.000	359.790	9622.000	135.129	0.000	152.796	0.000	135.129	0.000	0.000	152.796	46.982	-0.283	MWD+IFR1+MS

Plan Targets POKER LAKE UNIT 22 DTD 121H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 11	10041.76	440062.70	641968.60	6184.00	RECTANGLE
LTP 11	26285.68	456306.50	641909.10	6184.00	RECTANGLE
BHL 11	26335.79	456356.50	641908.80	6184.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

(20") x 13-3/8" x 9-5/8" x 6" 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	DLE	04NOV22
APPRV		
DRAWING NO.	HBE0000833	

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	–

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

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connections@uss.com
www.usstubular.com

U. S. Steel Tubular Products

8/27/2021 1:46:58 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]

UNCONTROLLED

Notes

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

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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 300676

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 300676
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	1/24/2024