

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

<b>Well Name:</b> POKER LAKE UNIT 13 DTD	<b>Well Location:</b> T24S / R30E / SEC 24 / NWNE /	<b>County or Parish/State:</b>
<b>Well Number:</b> 404H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM030453	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b> NMNM71016X
<b>US Well Number:</b>	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> XTO ENERGY INCORPORATED

**Notice of Intent**

**Sundry ID:** 2762570

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 11/21/2023

**Time Sundry Submitted:** 10:57

**Date proposed operation will begin:** 11/22/2023

**Procedure Description:** \*\* Surface Hole Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. XTO Energy, Inc. requests permission to make the following changes to the original APD: SHL: fr/448'FNL & 1399'FEL to 448'FNL & 1344'FEL, Section 24-T24S-R30E FTP: fr/100'FNL & 1650'FEL to 100'FNL & 1320'FEL LTP: fr/100'FSL & 1650'FEL to 100'FSL & 1320'FEL BHL: fr/50'FSL & 1650'FEL to 50'FSL & 1320'FEL, Section 25-T24S-R30E Additionally, XTO Energy, Inc. respectfully requests permission to downsize the surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the downsize in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan MBS

**NOI Attachments**

**Procedure Description**

PLU\_13\_DTD\_404H\_Sundry\_Attachments\_20231213132948.pdf

Well Name: POKER LAKE UNIT 13  
DTD

Well Location: T24S / R30E / SEC 24 /  
NWE /

County or Parish/State:

Well Number: 404H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM030453

Unit or CA Name:

Unit or CA Number:  
NMNM71016X

US Well Number:

Well Status: Approved Application for  
Permit to Drill

Operator: XTO ENERGY  
INCORPORATED

### Conditions of Approval

#### Additional

Sec\_24\_24S\_30E\_NMP\_Sundry\_2762570\_Poker\_Lake\_Unit\_13\_DTD\_404H\_COAs\_20231226105119.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: KRISTEN HOUSTON

Signed on: DEC 13, 2023 01:30 PM

Name: XTO ENERGY INCORPORATED

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND

State: TX

Phone: (432) 620-6700

Email address: KRISTEN.HOUSTON@EXXONMOBIL.COM

### Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

### BLM Point of Contact

BLM POC Name: CODY LAYTON

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Phone: 5752345959

BLM POC Email Address: clayton@blm.gov

Disposition: Approved

Disposition Date: 12/29/2023

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.**

5. Lease Serial No. **NMNM030453**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator **XTO ENERGY INCORPORATED**

3a. Address **222777 SPRINGSWOODS VILLAGE PKWY, SP**    3b. Phone No. (include area code) **(817) 870-2800**

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
**SEC 24/T24S/R30E/NMP**

7. If Unit of CA/Agreement, Name and/or No. **NMNM71016X**

8. Well Name and No. **POKER LAKE UNIT 13 DTD/404H**

9. API Well No.

10. Field and Pool or Exploratory Area  
**WC-015 G-06 S243119C/Bone Spring**

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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 performed 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 determined that the site is ready for final inspection.)

\*\* Surface Hole Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change.

XTO Energy, Inc. requests permission to make the following changes to the original APD:

SHL: fr/448FNL & 1399FEL to 448FNL & 1344FEL, Section 24-T24S-R30E

FTP: fr/100FNL & 1650FEL to 100FNL & 1320FEL

LTP: fr/100FSL & 1650FEL to 100FSL & 1320FEL

BHL: fr/50FSL & 1650FEL to 50FSL & 1320FEL, Section 25-T24S-R30E

Continued on page 3 additional information

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

Regulatory Analyst  
Title

Signature (Electronic Submission)      Date **12/13/2023**

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

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

Petroleum Engineer  
Title

12/29/2023  
Date

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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Additional Remarks

Additionally, XTO Energy, Inc. respectfully requests permission to downsize the surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the downsize in these strings, the wellhead configuration has also changed based on the attached drilling program.

Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

Directional Plan

MBS

### Location of Well

0. SHL: NWNE / 448 FNL / 1399 FEL / TWSP: 24S / RANGE: 30E / SECTION: 24 / LAT: 32.209392 / LONG: -103.830201 ( TVD: 0 feet, MD: 0 feet )

PPP: NWNE / 100 FNL / 1650 FEL / TWSP: 24S / RANGE: 30E / SECTION: 24 / LAT: 32.210349 / LONG: -103.831013 ( TVD: 10668 feet, MD: 11100 feet )

PPP: NWNE / 330 FNL / 1650 FEL / TWSP: 24S / RANGE: 30E / SECTION: 25 / LAT: 32.1819 / LONG: -103.83102 ( TVD: 10668 feet, MD: 16400 feet )

BHL: SWSE / 50 FSL / 1650 FEL / TWSP: 24S / RANGE: 30E / SECTION: 25 / LAT: 32.181725 / LONG: -103.831037 ( TVD: 10668 feet, MD: 21465 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO Energy Incorporated
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 13 DTD 404H
<b>LOCATION:</b>	Sec 24-24S-30E-NMP
<b>COUNTY:</b>	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2762570** on 12/26/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

<b>H<sub>2</sub>S</b>	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
<b>Cave / Karst</b>	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
<b>Special Req</b>	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
<b>Variance</b>	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
<b>Variance</b>	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> <b>Batch APD / Sundry</b>				

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately 602 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

- completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6381'**
  - b. Second stage:
    - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

**Operator has proposed to pump down 9-5/8" X 7-5/8" 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 7-5/8" 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 **300 feet** (increased tieback due to not meeting 0.422" clearance requirement per 43 CFR 3172) into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

## 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

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

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 2<sup>nd</sup> 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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-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

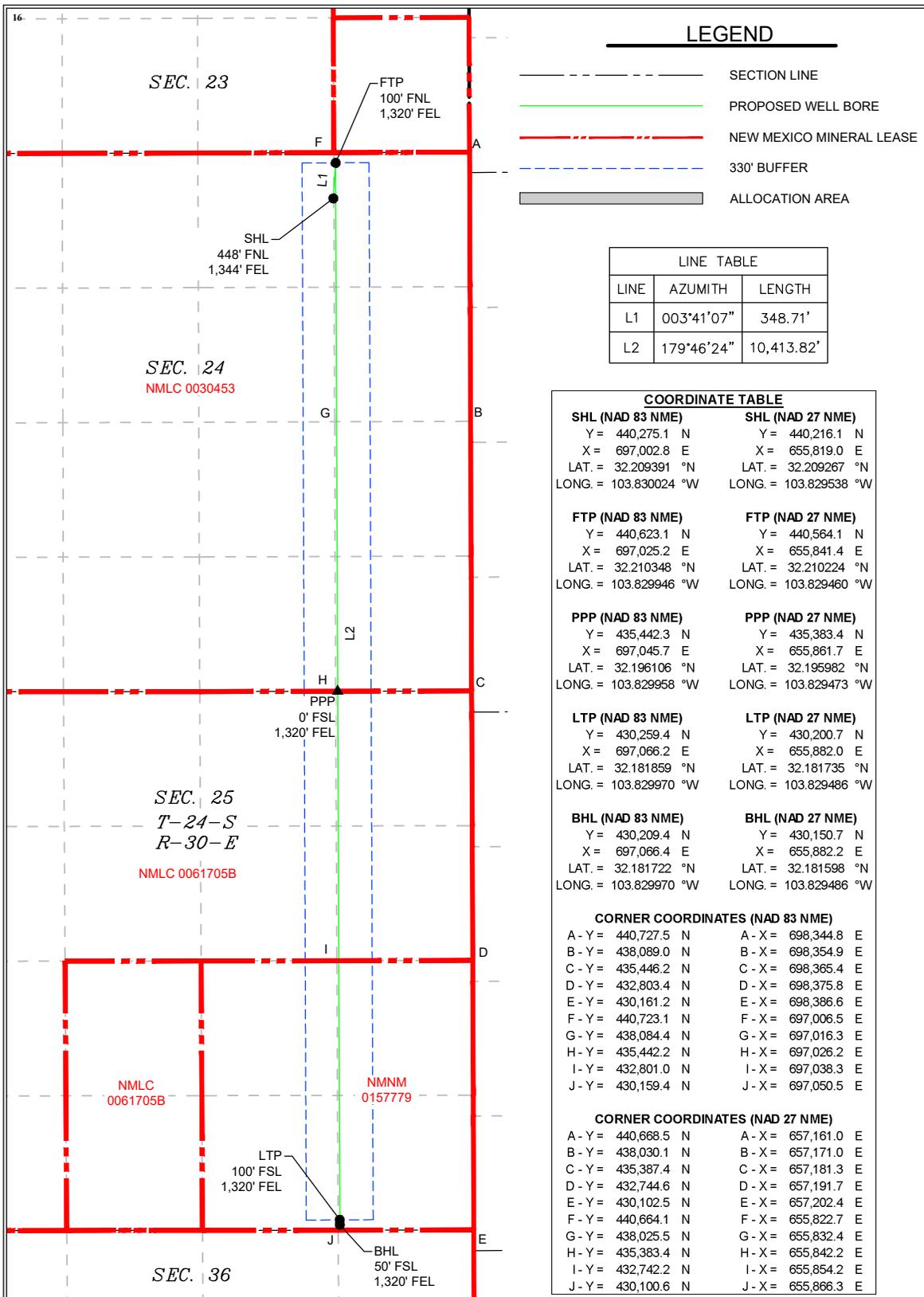
Table with 3 columns: API Number (10400089956), Pool Code (97975), Pool Name (WC-015 G-06 S243119C; Bone Spring), Property Code, Property Name (POKER LAKE UNIT 13 DTD), Well Number (404H), OGRID No. (005380), Operator Name (XTO Energy, Inc.), Elevation (3,477')

Table for Surface Location: UL or lot no. B, Section 24, Township 24S, Range 30E, Lot Idn, Feet from the 448, North/South line NORTH, Feet from the 1,344, East/West line EAST, County EDDY

Table for Bottom Hole Location: UL or lot no. P, Section 25, Township 24S, Range 30E, Lot Idn, Feet from the 50, North/South line SOUTH, Feet from the 1,320, East/West line EAST, County EDDY

Table for Dedication: Dedicated Acres 320, Joint or Infill, Consolidation Code, Order No.

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.



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.
Signature: Jean A. Cooper, Date: 10/10/2023

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.
Date of Survey: 09-27-2023
Signature and Seal of Professional Surveyor: Mark Dillon Harp
Professional Surveyor 23786
Certificate Number: 23786
KC 618.013003.10-06

\\618.013 XTO Energy - NM\003 Poker Lake Unit\10 - EDDY\Wells\06 - 404H\DWG\404H C-102.dwg

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

XTO Energy Inc.  
Poker Lake Unit 13 DTD 404H  
Projected TD: 21623.61' MD / 10681.19' TVD  
SHL: 448' FNL & 1344' FWL , Section 24, T24S, R30E  
BHL: 50' FSL & 1320' FWL , Section 25, 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	502'	Water
Top of Salt	952'	Water
Base of Salt	3999'	Water
Delaware	4213'	Water
Brushy Canyon	6381'	Water/Oil/Gas
Bone Spring	8088'	Water
1st Bone Spring	9012'	Water/Oil/Gas
2nd Bone Spring	9778'	Water/Oil/Gas
3rd Bone Spring	10521'	Water/Oil/Gas
Wolfcamp	11590'	Water/Oil/Gas
Wolfcamp X	11616'	Water/Oil/Gas
Wolfcamp Y	11694'	Water/Oil/Gas
Wolfcamp A	11751'	Water/Oil/Gas
Wolfcamp B	12192'	Water/Oil/Gas
Wolfcamp D	12530'	Water/Oil/Gas
Wolfcamp E	12585'	Water/Oil/Gas
<b>Target/Land Curve</b>	<b>10681'</b>	<b>Water/Oil/Gas</b>

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 602' (350' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9885.01' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21623.61 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9585.01 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 602'	9.625	40	J-55	BTC	New	1.29	10.46	26.16
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.52	2.52	1.90
8.75	4000' – 9885.01'	7.625	29.7	HC L-80	Flush Joint	New	1.83	1.86	2.32
6.75	0' – 9785.01'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.98	2.16
6.75	9785.01' - 21623.61'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.82	2.16

- 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
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

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

**Wellhead:**

*Permanent Wellhead – Multibowl System*

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

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

##### **Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 602'**

Lead: 100 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

##### **2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9885.01'**

###### 1st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 320 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6381

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

###### 2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 720 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/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 (6381') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

##### **Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 21623.61'**

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 9585.01 feet

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 10085.01 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

## 5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3760 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 nipping up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. 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' - 602'	12.25	FW/Native	8.4-8.9	35-40	NC
602' - 9885.01'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
9885.01' - 21623.61'	6.75	OBM	11-11.5	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 9.625 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 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6110 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 13 DTD 404H

**Measured Depth:** 21623.61 ft

**Site:** D

**TVD RKB:** 10681.19 ft

**Slot:** POKER LAKE UNIT 13  
DTD 404H

**Location**

**Cartographic Reference System:** New Mexico East - NAD 27

**Northing:** 440216.10 ft

**Easting:** 655819.00 ft

**RKB:** 3509.00 ft

**Ground Level:** 3477.00 ft

**North Reference:** Grid

**Convergence Angle:** 0.27 Deg

**Plan Sections** POKER LAKE UNIT 13 DTD 404H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD			Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg	
			RKB (ft)	Y Offset (ft)	X Offset (ft)			Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	
1877.00	13.54	1.05	1870.72	79.61	1.47	2.00	0.00	2.00	
5743.02	13.54	1.05	5629.28	984.58	18.13	0.00	0.00	0.00	
6420.02	0.00	0.00	6300.00	1064.19	19.59	-2.00	0.00	2.00	
10085.01	0.00	0.00	9964.99	1064.19	19.59	0.00	0.00	0.00	
11210.01	90.00	179.78	10681.19	348.00	22.40	8.00	0.00	8.00	FTP 6
21573.49	90.00	179.78	10681.19	-10015.40	63.00	0.00	0.00	0.00	LTP 6
21623.61	90.00	179.78	10681.19	-10065.52	63.20	0.00	0.00	0.00	BHL 6

**Position Uncertainty** POKER LAKE UNIT 13 DTD 404H

Measured	TVD Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	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	2.348	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	2.408	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	2.487	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	2.584	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	2.637	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.694	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	2.000	1.055	1299.980	5.324	0.000	4.934	0.000	2.754	0.000	0.000	5.634	4.579	125.068	MWD+IFR1+MS
1400.000	4.000	1.055	1399.838	6.096	0.000	5.294	0.000	2.817	0.000	0.000	6.367	4.976	118.116	MWD+IFR1+MS
1500.000	6.000	1.055	1499.452	6.791	0.000	5.653	0.000	2.885	0.000	0.000	7.057	5.344	114.625	MWD+IFR1+MS
1600.000	8.000	1.055	1598.702	7.431	0.000	6.010	0.000	2.961	0.000	0.000	7.706	5.701	112.594	MWD+IFR1+MS
1700.000	10.000	1.055	1697.465	8.027	0.000	6.368	0.000	3.046	0.000	0.000	8.319	6.054	111.288	MWD+IFR1+MS
1800.000	12.000	1.055	1795.623	8.587	0.000	6.725	0.000	3.142	0.000	0.000	8.902	6.406	110.392	MWD+IFR1+MS
1877.000	13.540	1.055	1870.717	8.905	0.000	6.993	0.000	3.210	0.000	0.000	9.244	6.676	110.041	MWD+IFR1+MS
1900.000	13.540	1.055	1893.077	8.970	0.000	7.070	0.000	3.224	0.000	0.000	9.308	6.757	110.015	MWD+IFR1+MS
2000.000	13.540	1.055	1990.298	9.254	0.000	7.415	0.000	3.307	0.000	0.000	9.582	7.112	110.123	MWD+IFR1+MS
2100.000	13.540	1.055	2087.518	9.557	0.000	7.779	0.000	3.396	0.000	0.000	9.881	7.477	110.469	MWD+IFR1+MS
2200.000	13.540	1.055	2184.739	9.867	0.000	8.145	0.000	3.488	0.000	0.000	10.186	7.843	110.806	MWD+IFR1+MS
2300.000	13.540	1.055	2281.960	10.183	0.000	8.512	0.000	3.583	0.000	0.000	10.497	8.210	111.134	MWD+IFR1+MS
2400.000	13.540	1.055	2379.180	10.505	0.000	8.880	0.000	3.681	0.000	0.000	10.813	8.579	111.453	MWD+IFR1+MS
2500.000	13.540	1.055	2476.401	10.831	0.000	9.250	0.000	3.781	0.000	0.000	11.133	8.948	111.763	MWD+IFR1+MS
2600.000	13.540	1.055	2573.622	11.162	0.000	9.620	0.000	3.884	0.000	0.000	11.457	9.319	112.065	MWD+IFR1+MS
2700.000	13.540	1.055	2670.842	11.496	0.000	9.992	0.000	3.989	0.000	0.000	11.785	9.690	112.358	MWD+IFR1+MS
2800.000	13.540	1.055	2768.063	11.835	0.000	10.364	0.000	4.097	0.000	0.000	12.116	10.062	112.643	MWD+IFR1+MS
2900.000	13.540	1.055	2865.284	12.177	0.000	10.737	0.000	4.206	0.000	0.000	12.450	10.435	112.920	MWD+IFR1+MS

3000.000	13.540	1.055	2962.504	12.522	0.000	11.111	0.000	4.318	0.000	0.000	12.788	10.809	113.189	MWD+IFR1+MS
3100.000	13.540	1.055	3059.725	12.870	0.000	11.485	0.000	4.431	0.000	0.000	13.128	11.183	113.451	MWD+IFR1+MS
3200.000	13.540	1.055	3156.946	13.220	0.000	11.860	0.000	4.546	0.000	0.000	13.471	11.557	113.705	MWD+IFR1+MS
3300.000	13.540	1.055	3254.166	13.573	0.000	12.236	0.000	4.663	0.000	0.000	13.816	11.932	113.952	MWD+IFR1+MS
3400.000	13.540	1.055	3351.387	13.928	0.000	12.612	0.000	4.782	0.000	0.000	14.163	12.307	114.191	MWD+IFR1+MS
3500.000	13.540	1.055	3448.608	14.286	0.000	12.988	0.000	4.902	0.000	0.000	14.512	12.683	114.423	MWD+IFR1+MS
3600.000	13.540	1.055	3545.828	14.645	0.000	13.365	0.000	5.025	0.000	0.000	14.863	13.059	114.649	MWD+IFR1+MS
3700.000	13.540	1.055	3643.049	15.006	0.000	13.742	0.000	5.148	0.000	0.000	15.215	13.436	114.868	MWD+IFR1+MS
3800.000	13.540	1.055	3740.270	15.369	0.000	14.119	0.000	5.274	0.000	0.000	15.570	13.813	115.080	MWD+IFR1+MS
3900.000	13.540	1.055	3837.490	15.733	0.000	14.497	0.000	5.400	0.000	0.000	15.925	14.190	115.286	MWD+IFR1+MS
4000.000	13.540	1.055	3934.711	16.099	0.000	14.875	0.000	5.529	0.000	0.000	16.282	14.567	115.486	MWD+IFR1+MS
4100.000	13.540	1.055	4031.932	16.466	0.000	15.253	0.000	5.659	0.000	0.000	16.641	14.945	115.680	MWD+IFR1+MS
4200.000	13.540	1.055	4129.152	16.835	0.000	15.631	0.000	5.790	0.000	0.000	17.000	15.323	115.868	MWD+IFR1+MS
4300.000	13.540	1.055	4226.373	17.204	0.000	16.010	0.000	5.923	0.000	0.000	17.361	15.701	116.050	MWD+IFR1+MS
4400.000	13.540	1.055	4323.594	17.575	0.000	16.388	0.000	6.058	0.000	0.000	17.723	16.079	116.226	MWD+IFR1+MS
4500.000	13.540	1.055	4420.814	17.947	0.000	16.767	0.000	6.194	0.000	0.000	18.086	16.457	116.397	MWD+IFR1+MS
4600.000	13.540	1.055	4518.035	18.319	0.000	17.147	0.000	6.331	0.000	0.000	18.449	16.836	116.562	MWD+IFR1+MS
4700.000	13.540	1.055	4615.256	18.693	0.000	17.526	0.000	6.470	0.000	0.000	18.814	17.215	116.722	MWD+IFR1+MS
4800.000	13.540	1.055	4712.476	19.068	0.000	17.905	0.000	6.611	0.000	0.000	19.179	17.594	116.877	MWD+IFR1+MS
4900.000	13.540	1.055	4809.697	19.443	0.000	18.285	0.000	6.753	0.000	0.000	19.546	17.973	117.027	MWD+IFR1+MS
5000.000	13.540	1.055	4906.918	19.819	0.000	18.665	0.000	6.897	0.000	0.000	19.913	18.352	117.171	MWD+IFR1+MS
5100.000	13.540	1.055	5004.138	20.196	0.000	19.045	0.000	7.043	0.000	0.000	20.281	18.732	117.311	MWD+IFR1+MS
5200.000	13.540	1.055	5101.359	20.573	0.000	19.425	0.000	7.190	0.000	0.000	20.649	19.111	117.446	MWD+IFR1+MS
5300.000	13.540	1.055	5198.580	20.952	0.000	19.805	0.000	7.338	0.000	0.000	21.018	19.491	117.577	MWD+IFR1+MS
5400.000	13.540	1.055	5295.800	21.330	0.000	20.185	0.000	7.489	0.000	0.000	21.388	19.871	117.703	MWD+IFR1+MS
5500.000	13.540	1.055	5393.021	21.710	0.000	20.565	0.000	7.641	0.000	0.000	21.758	20.251	117.824	MWD+IFR1+MS
5600.000	13.540	1.055	5490.242	22.090	0.000	20.946	0.000	7.795	0.000	0.000	22.129	20.631	117.941	MWD+IFR1+MS
5700.000	13.540	1.055	5587.462	22.470	0.000	21.326	0.000	7.950	0.000	0.000	22.500	21.011	118.054	MWD+IFR1+MS
5743.017	13.540	1.055	5629.283	22.631	0.000	21.487	0.000	8.017	0.000	0.000	22.655	21.174	118.037	MWD+IFR1+MS
5800.000	12.400	1.055	5684.812	22.868	0.000	21.699	0.000	8.107	0.000	0.000	22.863	21.389	117.975	MWD+IFR1+MS
5900.000	10.400	1.055	5782.834	23.323	0.000	22.071	0.000	8.269	0.000	0.000	23.287	21.765	117.308	MWD+IFR1+MS
6000.000	8.400	1.055	5881.486	23.786	0.000	22.440	0.000	8.428	0.000	0.000	23.749	22.137	116.375	MWD+IFR1+MS
6100.000	6.400	1.055	5980.648	24.212	0.000	22.803	0.000	8.578	0.000	0.000	24.204	22.502	115.556	MWD+IFR1+MS

6200.000	4.400	1.055	6080.199	24.600	0.000	23.160	0.000	8.720	0.000	0.000	24.651	22.859	114.840	MWD+IFR1+MS
6300.000	2.400	1.055	6180.018	24.950	0.000	23.510	0.000	8.857	0.000	0.000	25.089	23.209	114.217	MWD+IFR1+MS
6400.000	0.400	1.055	6279.983	25.263	0.000	23.853	0.000	8.989	0.000	0.000	25.518	23.552	113.678	MWD+IFR1+MS
6420.017	0.000	0.000	6300.000	25.276	0.000	23.946	0.000	9.015	0.000	0.000	25.582	23.619	113.669	MWD+IFR1+MS
6500.000	0.000	0.000	6379.983	25.530	0.000	24.212	0.000	9.119	0.000	0.000	25.834	23.888	113.677	MWD+IFR1+MS
6600.000	0.000	0.000	6479.983	25.852	0.000	24.549	0.000	9.252	0.000	0.000	26.156	24.225	113.781	MWD+IFR1+MS
6700.000	0.000	0.000	6579.983	26.175	0.000	24.889	0.000	9.387	0.000	0.000	26.481	24.564	113.912	MWD+IFR1+MS
6800.000	0.000	0.000	6679.983	26.500	0.000	25.228	0.000	9.525	0.000	0.000	26.807	24.903	114.041	MWD+IFR1+MS
6900.000	0.000	0.000	6779.983	26.826	0.000	25.569	0.000	9.666	0.000	0.000	27.133	25.242	114.168	MWD+IFR1+MS
7000.000	0.000	0.000	6879.983	27.152	0.000	25.910	0.000	9.809	0.000	0.000	27.461	25.582	114.294	MWD+IFR1+MS
7100.000	0.000	0.000	6979.983	27.479	0.000	26.251	0.000	9.955	0.000	0.000	27.789	25.922	114.419	MWD+IFR1+MS
7200.000	0.000	0.000	7079.983	27.807	0.000	26.593	0.000	10.104	0.000	0.000	28.118	26.263	114.542	MWD+IFR1+MS
7300.000	0.000	0.000	7179.983	28.135	0.000	26.935	0.000	10.256	0.000	0.000	28.448	26.605	114.663	MWD+IFR1+MS
7400.000	0.000	0.000	7279.983	28.465	0.000	27.277	0.000	10.411	0.000	0.000	28.778	26.947	114.783	MWD+IFR1+MS
7500.000	0.000	0.000	7379.983	28.795	0.000	27.620	0.000	10.568	0.000	0.000	29.109	27.289	114.902	MWD+IFR1+MS
7600.000	0.000	0.000	7479.983	29.126	0.000	27.964	0.000	10.728	0.000	0.000	29.441	27.631	115.019	MWD+IFR1+MS
7700.000	0.000	0.000	7579.983	29.457	0.000	28.307	0.000	10.892	0.000	0.000	29.773	27.974	115.135	MWD+IFR1+MS
7800.000	0.000	0.000	7679.983	29.789	0.000	28.651	0.000	11.058	0.000	0.000	30.106	28.318	115.249	MWD+IFR1+MS
7900.000	0.000	0.000	7779.983	30.122	0.000	28.996	0.000	11.227	0.000	0.000	30.440	28.661	115.363	MWD+IFR1+MS
8000.000	0.000	0.000	7879.983	30.455	0.000	29.341	0.000	11.399	0.000	0.000	30.774	29.005	115.474	MWD+IFR1+MS
8100.000	0.000	0.000	7979.983	30.789	0.000	29.686	0.000	11.575	0.000	0.000	31.109	29.350	115.585	MWD+IFR1+MS
8200.000	0.000	0.000	8079.983	31.123	0.000	30.031	0.000	11.753	0.000	0.000	31.444	29.695	115.694	MWD+IFR1+MS
8300.000	0.000	0.000	8179.983	31.458	0.000	30.377	0.000	11.934	0.000	0.000	31.780	30.040	115.802	MWD+IFR1+MS
8400.000	0.000	0.000	8279.983	31.793	0.000	30.723	0.000	12.118	0.000	0.000	32.116	30.385	115.909	MWD+IFR1+MS
8500.000	0.000	0.000	8379.983	32.129	0.000	31.069	0.000	12.305	0.000	0.000	32.453	30.730	116.015	MWD+IFR1+MS
8600.000	0.000	0.000	8479.983	32.465	0.000	31.416	0.000	12.495	0.000	0.000	32.790	31.076	116.119	MWD+IFR1+MS
8700.000	0.000	0.000	8579.983	32.802	0.000	31.763	0.000	12.689	0.000	0.000	33.128	31.423	116.222	MWD+IFR1+MS
8800.000	0.000	0.000	8679.983	33.139	0.000	32.110	0.000	12.885	0.000	0.000	33.466	31.769	116.324	MWD+IFR1+MS
8900.000	0.000	0.000	8779.983	33.477	0.000	32.457	0.000	13.085	0.000	0.000	33.805	32.116	116.425	MWD+IFR1+MS
9000.000	0.000	0.000	8879.983	33.815	0.000	32.805	0.000	13.287	0.000	0.000	34.144	32.463	116.525	MWD+IFR1+MS
9100.000	0.000	0.000	8979.983	34.154	0.000	33.153	0.000	13.493	0.000	0.000	34.483	32.810	116.623	MWD+IFR1+MS
9200.000	0.000	0.000	9079.983	34.493	0.000	33.501	0.000	13.701	0.000	0.000	34.823	33.157	116.721	MWD+IFR1+MS
9300.000	0.000	0.000	9179.983	34.832	0.000	33.849	0.000	13.913	0.000	0.000	35.163	33.505	116.817	MWD+IFR1+MS

9400.000	0.000	0.000	9279.983	35.172	0.000	34.197	0.000	14.128	0.000	0.000	35.504	33.852	116.912	MWD+IFR1+MS
9500.000	0.000	0.000	9379.983	35.512	0.000	34.546	0.000	14.346	0.000	0.000	35.845	34.201	117.007	MWD+IFR1+MS
9600.000	0.000	0.000	9479.983	35.852	0.000	34.895	0.000	14.567	0.000	0.000	36.186	34.549	117.100	MWD+IFR1+MS
9700.000	0.000	0.000	9579.983	36.193	0.000	35.244	0.000	14.792	0.000	0.000	36.527	34.897	117.192	MWD+IFR1+MS
9800.000	0.000	0.000	9679.983	36.534	0.000	35.593	0.000	15.019	0.000	0.000	36.869	35.246	117.283	MWD+IFR1+MS
9900.000	0.000	0.000	9779.983	36.876	0.000	35.943	0.000	15.250	0.000	0.000	37.212	35.595	117.373	MWD+IFR1+MS
10000.000	0.000	0.000	9879.983	37.217	0.000	36.292	0.000	15.484	0.000	0.000	37.554	35.944	117.463	MWD+IFR1+MS
10085.010	0.000	0.000	9964.993	37.507	0.000	36.588	0.000	15.685	0.000	0.000	37.843	36.240	117.515	MWD+IFR1+MS
10100.000	1.199	179.776	9979.982	37.466	0.000	36.643	-0.000	15.720	0.000	0.000	37.891	36.290	117.519	MWD+IFR1+MS
10200.000	9.199	179.776	10079.490	37.235	0.000	36.947	-0.000	15.969	0.000	0.000	38.492	36.646	113.305	MWD+IFR1+MS
10300.000	17.199	179.776	10176.769	37.187	0.000	37.231	-0.000	16.323	0.000	0.000	39.715	37.008	106.160	MWD+IFR1+MS
10400.000	25.199	179.776	10269.926	36.595	0.000	37.489	-0.000	16.861	0.000	0.000	40.826	37.296	102.999	MWD+IFR1+MS
10500.000	33.199	179.776	10357.148	35.541	0.000	37.718	-0.000	17.636	0.000	0.000	41.775	37.536	101.394	MWD+IFR1+MS
10600.000	41.199	179.776	10436.737	34.134	0.000	37.916	-0.000	18.670	0.000	0.000	42.545	37.738	100.542	MWD+IFR1+MS
10700.000	49.199	179.776	10507.144	32.516	0.000	38.083	-0.000	19.949	0.000	0.000	43.131	37.904	100.117	MWD+IFR1+MS
10800.000	57.199	179.776	10566.999	30.869	0.000	38.219	-0.000	21.436	0.000	0.000	43.546	38.035	99.958	MWD+IFR1+MS
10900.000	65.199	179.776	10615.136	29.411	0.000	38.324	-0.000	23.075	0.000	0.000	43.807	38.133	99.971	MWD+IFR1+MS
11000.000	73.199	179.776	10650.620	28.379	0.000	38.397	-0.000	24.807	0.000	0.000	43.946	38.200	100.080	MWD+IFR1+MS
11100.000	81.199	179.776	10672.758	27.992	0.000	38.440	-0.000	26.570	0.000	0.000	43.998	38.237	100.214	MWD+IFR1+MS
11200.000	89.199	179.776	10681.120	28.390	0.000	38.453	-0.000	28.305	0.000	0.000	44.005	38.247	100.289	MWD+IFR1+MS
11210.010	90.000	179.776	10681.190	28.326	0.000	38.451	-0.000	28.326	0.000	0.000	44.006	38.246	100.287	MWD+IFR1+MS
11300.000	90.000	179.776	10681.190	28.499	0.000	38.449	-0.000	28.499	0.000	0.000	44.007	38.243	100.291	MWD+IFR1+MS
11400.000	90.000	179.776	10681.190	28.707	0.000	38.464	-0.000	28.707	0.000	0.000	44.010	38.257	100.325	MWD+IFR1+MS
11500.000	90.000	179.776	10681.190	28.935	0.000	38.495	-0.000	28.935	0.000	0.000	44.013	38.287	100.384	MWD+IFR1+MS
11600.000	90.000	179.776	10681.190	29.183	0.000	38.541	-0.000	29.183	0.000	0.000	44.017	38.331	100.469	MWD+IFR1+MS
11700.000	90.000	179.776	10681.190	29.450	0.000	38.602	-0.000	29.450	0.000	0.000	44.023	38.390	100.580	MWD+IFR1+MS
11800.000	90.000	179.776	10681.190	29.735	0.000	38.678	-0.000	29.735	0.000	0.000	44.029	38.463	100.720	MWD+IFR1+MS
11900.000	90.000	179.776	10681.190	30.037	0.000	38.769	-0.000	30.037	0.000	0.000	44.037	38.551	100.889	MWD+IFR1+MS
12000.000	90.000	179.776	10681.190	30.357	0.000	38.875	-0.000	30.357	0.000	0.000	44.045	38.654	101.091	MWD+IFR1+MS
12100.000	90.000	179.776	10681.190	30.694	0.000	38.996	-0.000	30.694	0.000	0.000	44.055	38.770	101.327	MWD+IFR1+MS
12200.000	90.000	179.776	10681.190	31.047	0.000	39.131	-0.000	31.047	0.000	0.000	44.066	38.900	101.603	MWD+IFR1+MS
12300.000	90.000	179.776	10681.190	31.416	0.000	39.281	-0.000	31.416	0.000	0.000	44.079	39.044	101.923	MWD+IFR1+MS
12400.000	90.000	179.776	10681.190	31.799	0.000	39.445	-0.000	31.799	0.000	0.000	44.093	39.202	102.291	MWD+IFR1+MS

12500.000	90.000	179.776	10681.190	32.197	0.000	39.623	-0.000	32.197	0.000	0.000	44.108	39.372	102.716	MWD+IFR1+MS
12600.000	90.000	179.776	10681.190	32.610	0.000	39.815	-0.000	32.610	0.000	0.000	44.125	39.555	103.205	MWD+IFR1+MS
12700.000	90.000	179.776	10681.190	33.035	0.000	40.021	-0.000	33.035	0.000	0.000	44.145	39.751	103.769	MWD+IFR1+MS
12800.000	90.000	179.776	10681.190	33.474	0.000	40.240	-0.000	33.474	0.000	0.000	44.166	39.958	104.420	MWD+IFR1+MS
12900.000	90.000	179.776	10681.190	33.925	0.000	40.473	-0.000	33.925	0.000	0.000	44.190	40.177	105.177	MWD+IFR1+MS
13000.000	90.000	179.776	10681.190	34.389	0.000	40.718	-0.000	34.389	0.000	0.000	44.217	40.406	106.058	MWD+IFR1+MS
13100.000	90.000	179.776	10681.190	34.863	0.000	40.977	-0.000	34.863	0.000	0.000	44.248	40.645	107.090	MWD+IFR1+MS
13200.000	90.000	179.776	10681.190	35.349	0.000	41.248	-0.000	35.349	0.000	0.000	44.283	40.893	108.306	MWD+IFR1+MS
13300.000	90.000	179.776	10681.190	35.845	0.000	41.531	-0.000	35.845	0.000	0.000	44.323	41.148	109.748	MWD+IFR1+MS
13400.000	90.000	179.776	10681.190	36.352	0.000	41.827	-0.000	36.352	0.000	0.000	44.370	41.410	111.471	MWD+IFR1+MS
13500.000	90.000	179.776	10681.190	36.868	0.000	42.134	-0.000	36.868	0.000	0.000	44.425	41.675	113.539	MWD+IFR1+MS
13600.000	90.000	179.776	10681.190	37.394	0.000	42.453	-0.000	37.394	0.000	0.000	44.491	41.942	116.030	MWD+IFR1+MS
13700.000	90.000	179.776	10681.190	37.928	0.000	42.783	-0.000	37.928	0.000	0.000	44.572	42.206	119.031	MWD+IFR1+MS
13800.000	90.000	179.776	10681.190	38.472	0.000	43.124	-0.000	38.472	0.000	0.000	44.671	42.464	122.614	MWD+IFR1+MS
13900.000	90.000	179.776	10681.190	39.023	0.000	43.477	-0.000	39.023	0.000	0.000	44.793	42.709	126.811	MWD+IFR1+MS
14000.000	90.000	179.776	10681.190	39.582	0.000	43.839	-0.000	39.582	0.000	0.000	44.946	42.935	131.557	MWD+IFR1+MS
14100.000	90.000	179.776	10681.190	40.149	0.000	44.212	-0.000	40.149	0.000	0.000	45.133	43.137	-43.344	MWD+IFR1+MS
14200.000	90.000	179.776	10681.190	40.723	0.000	44.595	-0.000	40.723	0.000	0.000	45.359	43.312	-38.199	MWD+IFR1+MS
14300.000	90.000	179.776	10681.190	41.304	0.000	44.988	-0.000	41.304	0.000	0.000	45.622	43.460	-33.331	MWD+IFR1+MS
14400.000	90.000	179.776	10681.190	41.892	0.000	45.390	-0.000	41.892	0.000	0.000	45.920	43.582	-28.972	MWD+IFR1+MS
14500.000	90.000	179.776	10681.190	42.486	0.000	45.801	-0.000	42.486	0.000	0.000	46.248	43.684	-25.218	MWD+IFR1+MS
14600.000	90.000	179.776	10681.190	43.086	0.000	46.222	-0.000	43.086	0.000	0.000	46.603	43.769	-22.057	MWD+IFR1+MS
14700.000	90.000	179.776	10681.190	43.692	0.000	46.651	-0.000	43.692	0.000	0.000	46.980	43.842	-19.424	MWD+IFR1+MS
14800.000	90.000	179.776	10681.190	44.303	0.000	47.089	-0.000	44.303	0.000	0.000	47.375	43.905	-17.232	MWD+IFR1+MS
14900.000	90.000	179.776	10681.190	44.920	0.000	47.535	-0.000	44.920	0.000	0.000	47.787	43.960	-15.403	MWD+IFR1+MS
15000.000	90.000	179.776	10681.190	45.542	0.000	47.989	-0.000	45.542	0.000	0.000	48.213	44.010	-13.866	MWD+IFR1+MS
15100.000	90.000	179.776	10681.190	46.169	0.000	48.451	-0.000	46.169	0.000	0.000	48.651	44.056	-12.564	MWD+IFR1+MS
15200.000	90.000	179.776	10681.190	46.801	0.000	48.920	-0.000	46.801	0.000	0.000	49.100	44.099	-11.453	MWD+IFR1+MS
15300.000	90.000	179.776	10681.190	47.438	0.000	49.397	-0.000	47.438	0.000	0.000	49.560	44.140	-10.497	MWD+IFR1+MS
15400.000	90.000	179.776	10681.190	48.078	0.000	49.881	-0.000	48.078	0.000	0.000	50.030	44.178	-9.669	MWD+IFR1+MS
15500.000	90.000	179.776	10681.190	48.723	0.000	50.372	-0.000	48.723	0.000	0.000	50.508	44.215	-8.945	MWD+IFR1+MS
15600.000	90.000	179.776	10681.190	49.373	0.000	50.870	-0.000	49.373	0.000	0.000	50.995	44.251	-8.309	MWD+IFR1+MS
15700.000	90.000	179.776	10681.190	50.025	0.000	51.375	-0.000	50.025	0.000	0.000	51.490	44.287	-7.747	MWD+IFR1+MS

15800.000	90.000	179.776	10681.190	50.682	0.000	51.885	-0.000	50.682	0.000	0.000	51.992	44.321	-7.246	MWD+IFR1+MS
15900.000	90.000	179.776	10681.190	51.342	0.000	52.403	-0.000	51.342	0.000	0.000	52.501	44.356	-6.799	MWD+IFR1+MS
16000.000	90.000	179.776	10681.190	52.006	0.000	52.926	-0.000	52.006	0.000	0.000	53.017	44.389	-6.397	MWD+IFR1+MS
16100.000	90.000	179.776	10681.190	52.673	0.000	53.454	-0.000	52.673	0.000	0.000	53.540	44.423	-6.034	MWD+IFR1+MS
16200.000	90.000	179.776	10681.190	53.344	0.000	53.989	-0.000	53.344	0.000	0.000	54.069	44.457	-5.705	MWD+IFR1+MS
16300.000	90.000	179.776	10681.190	54.017	0.000	54.529	-0.000	54.017	0.000	0.000	54.604	44.491	-5.406	MWD+IFR1+MS
16400.000	90.000	179.776	10681.190	54.693	0.000	55.075	-0.000	54.693	0.000	0.000	55.145	44.525	-5.133	MWD+IFR1+MS
16500.000	90.000	179.776	10681.190	55.372	0.000	55.625	-0.000	55.372	0.000	0.000	55.691	44.558	-4.883	MWD+IFR1+MS
16600.000	90.000	179.776	10681.190	56.054	0.000	56.181	-0.000	56.054	0.000	0.000	56.243	44.593	-4.653	MWD+IFR1+MS
16700.000	90.000	179.776	10681.190	56.739	0.000	56.741	-0.000	56.739	0.000	0.000	56.800	44.627	-4.441	MWD+IFR1+MS
16800.000	90.000	179.776	10681.190	57.426	0.000	57.307	-0.000	57.426	0.000	0.000	57.362	44.661	-4.246	MWD+IFR1+MS
16900.000	90.000	179.776	10681.190	58.116	0.000	57.876	-0.000	58.116	0.000	0.000	57.929	44.696	-4.065	MWD+IFR1+MS
17000.000	90.000	179.776	10681.190	58.808	0.000	58.451	-0.000	58.808	0.000	0.000	58.501	44.731	-3.897	MWD+IFR1+MS
17100.000	90.000	179.776	10681.190	59.502	0.000	59.029	-0.000	59.502	0.000	0.000	59.077	44.767	-3.740	MWD+IFR1+MS
17200.000	90.000	179.776	10681.190	60.199	0.000	59.612	-0.000	60.199	0.000	0.000	59.657	44.802	-3.594	MWD+IFR1+MS
17300.000	90.000	179.776	10681.190	60.897	0.000	60.199	-0.000	60.897	0.000	0.000	60.242	44.839	-3.458	MWD+IFR1+MS
17400.000	90.000	179.776	10681.190	61.598	0.000	60.790	-0.000	61.598	0.000	0.000	60.831	44.875	-3.331	MWD+IFR1+MS
17500.000	90.000	179.776	10681.190	62.301	0.000	61.385	-0.000	62.301	0.000	0.000	61.424	44.912	-3.211	MWD+IFR1+MS
17600.000	90.000	179.776	10681.190	63.006	0.000	61.983	-0.000	63.006	0.000	0.000	62.020	44.949	-3.099	MWD+IFR1+MS
17700.000	90.000	179.776	10681.190	63.712	0.000	62.586	-0.000	63.712	0.000	0.000	62.621	44.987	-2.993	MWD+IFR1+MS
17800.000	90.000	179.776	10681.190	64.421	0.000	63.191	-0.000	64.421	0.000	0.000	63.225	45.025	-2.894	MWD+IFR1+MS
17900.000	90.000	179.776	10681.190	65.131	0.000	63.800	-0.000	65.131	0.000	0.000	63.833	45.063	-2.800	MWD+IFR1+MS
18000.000	90.000	179.776	10681.190	65.843	0.000	64.413	-0.000	65.843	0.000	0.000	64.444	45.102	-2.712	MWD+IFR1+MS
18100.000	90.000	179.776	10681.190	66.556	0.000	65.028	-0.000	66.556	0.000	0.000	65.058	45.141	-2.628	MWD+IFR1+MS
18200.000	90.000	179.776	10681.190	67.271	0.000	65.647	-0.000	67.271	0.000	0.000	65.676	45.181	-2.549	MWD+IFR1+MS
18300.000	90.000	179.776	10681.190	67.988	0.000	66.269	-0.000	67.988	0.000	0.000	66.297	45.221	-2.474	MWD+IFR1+MS
18400.000	90.000	179.776	10681.190	68.706	0.000	66.894	-0.000	68.706	0.000	0.000	66.920	45.262	-2.402	MWD+IFR1+MS
18500.000	90.000	179.776	10681.190	69.425	0.000	67.522	-0.000	69.425	0.000	0.000	67.547	45.303	-2.335	MWD+IFR1+MS
18600.000	90.000	179.776	10681.190	70.146	0.000	68.152	-0.000	70.146	0.000	0.000	68.177	45.345	-2.270	MWD+IFR1+MS
18700.000	90.000	179.776	10681.190	70.869	0.000	68.786	-0.000	70.869	0.000	0.000	68.809	45.386	-2.209	MWD+IFR1+MS
18800.000	90.000	179.776	10681.190	71.592	0.000	69.422	-0.000	71.592	0.000	0.000	69.444	45.429	-2.151	MWD+IFR1+MS
18900.000	90.000	179.776	10681.190	72.317	0.000	70.060	-0.000	72.317	0.000	0.000	70.082	45.472	-2.095	MWD+IFR1+MS
19000.000	90.000	179.776	10681.190	73.043	0.000	70.701	-0.000	73.043	0.000	0.000	70.722	45.515	-2.042	MWD+IFR1+MS

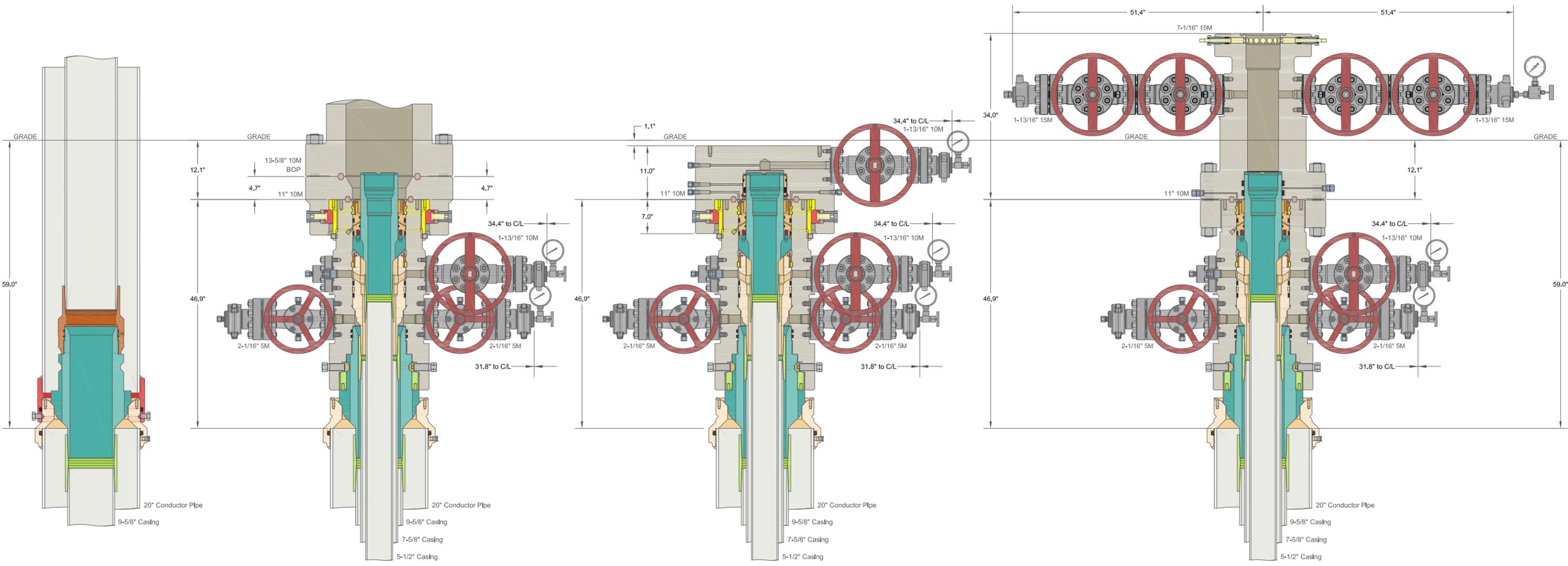
19100.000	90.000	179.776	10681.190	73.771	0.000	71.345	-0.000	73.771	0.000	0.000	71.365	45.559	-1.991	MWD+IFR1+MS
19200.000	90.000	179.776	10681.190	74.499	0.000	71.991	-0.000	74.499	0.000	0.000	72.010	45.603	-1.943	MWD+IFR1+MS
19300.000	90.000	179.776	10681.190	75.229	0.000	72.639	-0.000	75.229	0.000	0.000	72.658	45.648	-1.896	MWD+IFR1+MS
19400.000	90.000	179.776	10681.190	75.959	0.000	73.290	-0.000	75.959	0.000	0.000	73.308	45.693	-1.852	MWD+IFR1+MS
19500.000	90.000	179.776	10681.190	76.691	0.000	73.942	-0.000	76.691	0.000	0.000	73.960	45.738	-1.809	MWD+IFR1+MS
19600.000	90.000	179.776	10681.190	77.424	0.000	74.597	-0.000	77.424	0.000	0.000	74.614	45.785	-1.768	MWD+IFR1+MS
19700.000	90.000	179.776	10681.190	78.158	0.000	75.254	-0.000	78.158	0.000	0.000	75.270	45.831	-1.729	MWD+IFR1+MS
19800.000	90.000	179.776	10681.190	78.893	0.000	75.913	-0.000	78.893	0.000	0.000	75.929	45.878	-1.692	MWD+IFR1+MS
19900.000	90.000	179.776	10681.190	79.629	0.000	76.574	-0.000	79.629	0.000	0.000	76.589	45.925	-1.655	MWD+IFR1+MS
20000.000	90.000	179.776	10681.190	80.365	0.000	77.237	-0.000	80.365	0.000	0.000	77.252	45.973	-1.621	MWD+IFR1+MS
20100.000	90.000	179.776	10681.190	81.103	0.000	77.902	-0.000	81.103	0.000	0.000	77.916	46.022	-1.587	MWD+IFR1+MS
20200.000	90.000	179.776	10681.190	81.841	0.000	78.568	-0.000	81.841	0.000	0.000	78.582	46.071	-1.555	MWD+IFR1+MS
20300.000	90.000	179.776	10681.190	82.581	0.000	79.237	-0.000	82.581	0.000	0.000	79.250	46.120	-1.524	MWD+IFR1+MS
20400.000	90.000	179.776	10681.190	83.321	0.000	79.907	-0.000	83.321	0.000	0.000	79.920	46.170	-1.494	MWD+IFR1+MS
20500.000	90.000	179.776	10681.190	84.062	0.000	80.579	-0.000	84.062	0.000	0.000	80.591	46.220	-1.466	MWD+IFR1+MS
20600.000	90.000	179.776	10681.190	84.804	0.000	81.252	-0.000	84.804	0.000	0.000	81.264	46.270	-1.438	MWD+IFR1+MS
20700.000	90.000	179.776	10681.190	85.546	0.000	81.927	-0.000	85.546	0.000	0.000	81.939	46.322	-1.411	MWD+IFR1+MS
20800.000	90.000	179.776	10681.190	86.289	0.000	82.604	-0.000	86.289	0.000	0.000	82.615	46.373	-1.385	MWD+IFR1+MS
20900.000	90.000	179.776	10681.190	87.033	0.000	83.282	-0.000	87.033	0.000	0.000	83.293	46.425	-1.361	MWD+IFR1+MS
21000.000	90.000	179.776	10681.190	87.778	0.000	83.962	-0.000	87.778	0.000	0.000	83.973	46.478	-1.336	MWD+IFR1+MS
21100.000	90.000	179.776	10681.190	88.524	0.000	84.643	-0.000	88.524	0.000	0.000	84.653	46.531	-1.313	MWD+IFR1+MS
21200.000	90.000	179.776	10681.190	89.270	0.000	85.325	-0.000	89.270	0.000	0.000	85.336	46.584	-1.291	MWD+IFR1+MS
21300.000	90.000	179.776	10681.190	90.016	0.000	86.009	-0.000	90.016	0.000	0.000	86.019	46.638	-1.269	MWD+IFR1+MS
21400.000	90.000	179.776	10681.190	90.764	0.000	86.695	-0.000	90.764	0.000	0.000	86.704	46.692	-1.248	MWD+IFR1+MS
21500.000	90.000	179.776	10681.190	91.512	0.000	87.381	-0.000	91.512	0.000	0.000	87.391	46.747	-1.227	MWD+IFR1+MS
21573.489	90.000	179.776	10681.190	92.061	0.000	87.886	-0.000	92.061	0.000	0.000	87.895	46.787	-1.213	MWD+IFR1+MS
21600.000	90.000	179.776	10681.190	92.259	0.000	88.067	-0.000	92.259	0.000	0.000	88.077	46.802	-1.208	MWD+IFR1+MS
21623.610	90.000	179.776	10681.190	92.436	0.000	88.229	-0.000	92.436	0.000	0.000	88.238	46.815	-1.203	MWD+IFR1+MS

**Plan Targets**

POKER LAKE UNIT 13 DTD 404H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 6	11210.01	440564.10	655841.40	7172.19	RECTANGLE

LTP 6	21573.49	430200.70	655882.00	7172.19 RECTANGLE
BHL 6	21623.49	430150.70	655882.20	7172.19 RECTANGLE



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ALL DIMENSIONS APPROXIMATE

<b>CACTUS WELLHEAD LLC</b>		XTO ENERGY INC DELAWARE BASIN	
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers		DRAWN	VJK
		APPRV	31MAR22
		DRAWING NO.	HBE0000479

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

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 298537

**CONDITIONS**

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 298537
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	1/8/2024