

<b>Well Name:</b> POKER LAKE UNIT 17 TWR	<b>Well Location:</b> T24S / R31E / SEC 20 / NENW /	<b>County or Parish/State:</b>
<b>Well Number:</b> 203H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMLC061705B	<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 PERMIAN OPERATING LLC

**Notice of Intent**

**Sundry ID:** 2760409

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 11/08/2023

**Time Sundry Submitted:** 07:22

**Date proposed operation will begin:** 11/27/2023

**Procedure Description:** XTO Permian Operating, LLC. respectfully requests approval to make changes to the Approved APD (10400091035) as follows: Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. SHL: FROM: 313' FNL & 1680' FWL TO: 313' FNL & 1715' FWL of Section 20-T24S-R31E FTP: FROM: 100' FNL & 2200' FWL TO: 100' FNL & 1710' FWL of Section 20-T24S-R31E LTP: FROM: 100' FSL & 2200' FWL TO: 100' FSL & 1710' FWL of Section 29-T24S-R31E BHL: FROM: 50' FSL & 2200' FWL TO: 50' FSL & 1710' FWL of Section 29-T24S-R31E Casing/Cement design: weight from 23# to 20#. Attachments: C102 Drilling Program Directional Plan MBS

**NOI Attachments**

**Procedure Description**

PLU\_17\_TWR\_203H\_Sundry\_Attachments\_20231108064713.pdf

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TWR

**Well Location:** T24S / R31E / SEC 20 /  
NENW /

**County or Parish/State:**

**Well Number:** 203H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

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**Unit or CA Name:**

**Unit or CA Number:**  
NMNM71016X

**US Well Number:**

**Well Status:** Approved Application for  
Permit to Drill

**Operator:** XTO PERMIAN  
OPERATING LLC

### Conditions of Approval

#### Additional

Sec\_20\_24S\_30E\_NMP\_Sundry\_2760409\_Poker\_Lake\_Unit\_17\_TWR\_203H\_COAs\_20231205095122.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:** NOV 08, 2023 07:21 AM

**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:** 12/05/2023

**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. **NMLC061705B**

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 PERMIAN OPERATING LLC**

3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,** 3b. Phone No. (include area code)  
**(432) 683-2277**

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
**SEC 20/T24S/R31E/NMP**

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

8. Well Name and No. **POKER LAKE UNIT 17 TWR/203H**

9. API Well No.

10. Field and Pool or Exploratory Area  
**WC-025 G-09 S223332A/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.)

XTO Permian Operating, LLC. respectfully requests approval to make changes to the Approved APD (10400091035) as follows: Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change.

SHL: FROM: 313 FNL & 1680 FWL TO: 313 FNL & 1715 FWL of Section 20-T24S-R31E  
 FTP: FROM: 100 FNL & 2200 FWL TO: 100 FNL & 1710 FWL of Section 20-T24S-R31E  
 LTP: FROM: 100 FSL & 2200 FWL TO: 100 FSL & 1710 FWL of Section 29-T24S-R31E  
 BHL: FROM: 50 FSL & 2200 FWL TO: 50 FSL & 1710 FWL of Section 29-T24S-R31E

Casing/Cement design: weight from 23# to 20#.

Attachments:

Continued on page 3 additional information

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

Signature (Electronic Submission) \_\_\_\_\_ Title **Regulatory Analyst**

\_\_\_\_\_ Date **11/08/2023**

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

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

Title **Petroleum Engineer** Date **12/05/2023**

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

C102  
Drilling Program  
Directional Plan  
MBS

### Location of Well

0. SHL: NENW / 313 FNL / 1680 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209212 / LONG: -103.802961 ( TVD: 0 feet, MD: 0 feet )  
PPP: NENW / 100 FNL / 2200 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209799 / LONG: -103.801283 ( TVD: 10095 feet, MD: 10500 feet )  
BHL: SESW / 50 FSL / 2200 FWL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.181175 / LONG: -103.80122 ( TVD: 10095 feet, MD: 20893 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO Energy Incorporated
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 17 TWR 203H
<b>LOCATION:</b>	Sec 20-24S-30E-NMP
<b>COUNTY:</b>	Eddy County, New Mexico

*Engineering changes addressed through Sundry 2760409 on 12/05/2023. 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 685 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 6847'**
  - 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** (cement tieback increased due to operator 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

APD ID  
10400091035

WELL LOCATION AND ACREAGE DEDICATION

<sup>1</sup> API Number <b>30-015-</b>	<sup>2</sup> Pool Code 96403	<sup>3</sup> Pool Name Wildcat; Bone Spring
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>POKER LAKE UNIT 17 TWR</b>	
<sup>7</sup> OGRID No. <b>373075</b>	<sup>8</sup> Operator Name <b>XTO PERMIAN OPERATING, LLC.</b>	
		<sup>6</sup> Well Number <b>203H</b>
		<sup>9</sup> Elevation <b>3,497'</b>

<sup>10</sup> Surface Location

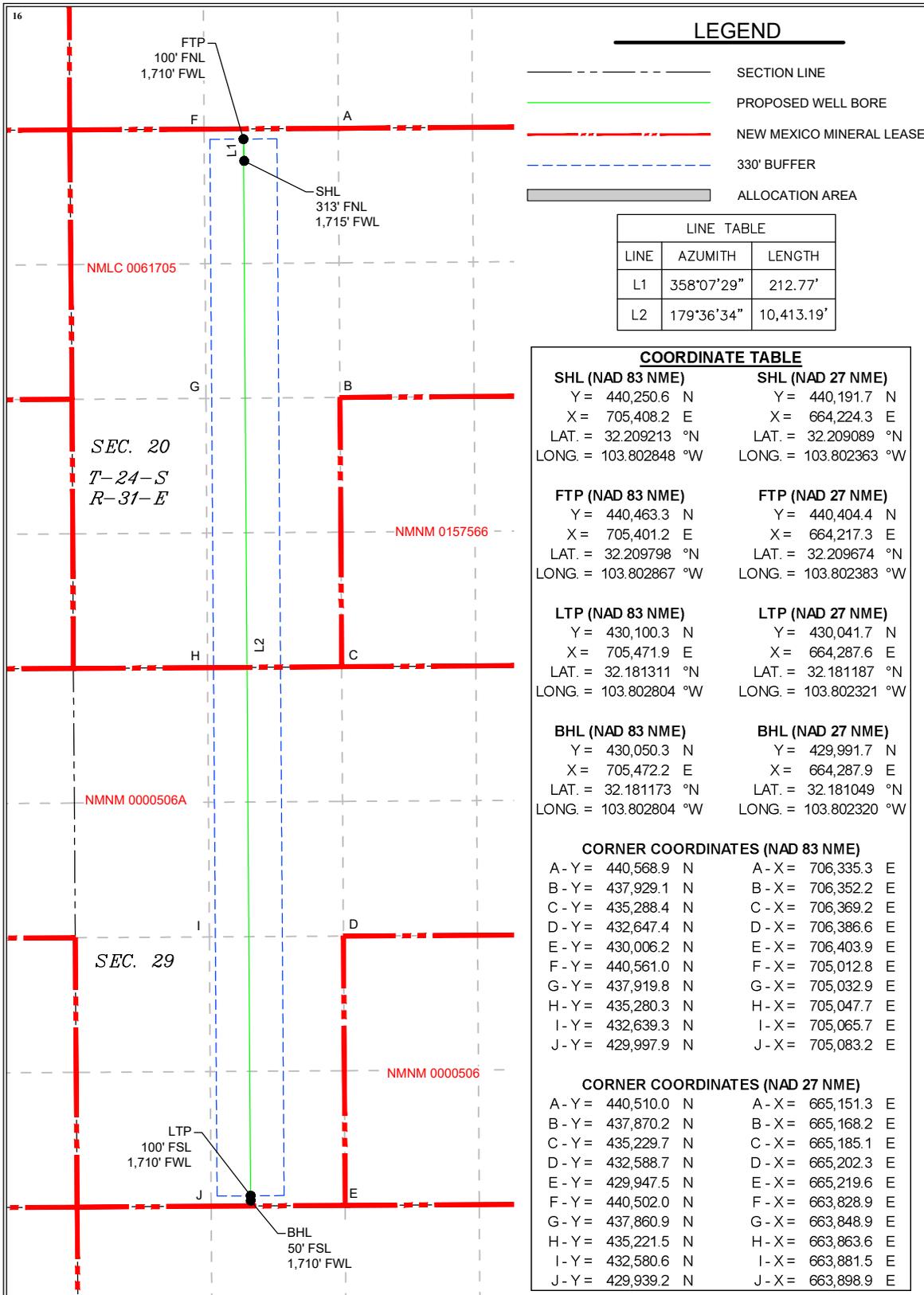
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>20</b>	<b>24S</b>	<b>31E</b>		<b>313</b>	<b>NORTH</b>	<b>1,715</b>	<b>WEST</b>	<b>EDDY</b>

<sup>11</sup> 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
<b>N</b>	<b>29</b>	<b>24S</b>	<b>31E</b>		<b>50</b>	<b>SOUTH</b>	<b>1,710</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



LEGEND

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

LINE TABLE		
LINE	AZUMITH	LENGTH
L1	358°07'29"	212.77'
L2	179°36'34"	10,413.19'

COORDINATE TABLE

SHL (NAD 83 NME)		SHL (NAD 27 NME)	
Y = 440,250.6	N	Y = 440,191.7	N
X = 705,408.2	E	X = 664,224.3	E
LAT. = 32.209213	°N	LAT. = 32.209089	°N
LONG. = 103.802848	°W	LONG. = 103.802363	°W
FTP (NAD 83 NME)		FTP (NAD 27 NME)	
Y = 440,463.3	N	Y = 440,404.4	N
X = 705,401.2	E	X = 664,217.3	E
LAT. = 32.209798	°N	LAT. = 32.209674	°N
LONG. = 103.802867	°W	LONG. = 103.802383	°W
LTP (NAD 83 NME)		LTP (NAD 27 NME)	
Y = 430,100.3	N	Y = 430,041.7	N
X = 705,471.9	E	X = 664,287.6	E
LAT. = 32.181311	°N	LAT. = 32.181187	°N
LONG. = 103.802804	°W	LONG. = 103.802321	°W
BHL (NAD 83 NME)		BHL (NAD 27 NME)	
Y = 430,050.3	N	Y = 429,991.7	N
X = 705,472.2	E	X = 664,287.9	E
LAT. = 32.181173	°N	LAT. = 32.181049	°N
LONG. = 103.802804	°W	LONG. = 103.802320	°W
CORNER COORDINATES (NAD 83 NME)			
A - Y = 440,568.9	N	A - X = 706,335.3	E
B - Y = 437,929.1	N	B - X = 706,352.2	E
C - Y = 435,288.4	N	C - X = 706,369.2	E
D - Y = 432,647.4	N	D - X = 706,386.6	E
E - Y = 430,006.2	N	E - X = 706,403.9	E
F - Y = 440,561.0	N	F - X = 705,012.8	E
G - Y = 437,919.8	N	G - X = 705,032.9	E
H - Y = 435,280.3	N	H - X = 705,047.7	E
I - Y = 432,639.3	N	I - X = 705,065.7	E
J - Y = 429,997.9	N	J - X = 705,083.2	E
CORNER COORDINATES (NAD 27 NME)			
A - Y = 440,510.0	N	A - X = 665,151.3	E
B - Y = 437,870.2	N	B - X = 665,168.2	E
C - Y = 435,229.7	N	C - X = 665,185.1	E
D - Y = 432,588.7	N	D - X = 665,202.3	E
E - Y = 429,947.5	N	E - X = 665,219.6	E
F - Y = 440,502.0	N	F - X = 663,828.9	E
G - Y = 437,860.9	N	G - X = 663,848.9	E
H - Y = 435,221.5	N	H - X = 663,863.6	E
I - Y = 432,580.6	N	I - X = 663,881.5	E
J - Y = 429,939.2	N	J - X = 663,898.9	E

<sup>17</sup> 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.

*Jean A. Cooper*  
Signature

Date

Jean A. Cooper  
Printed Name

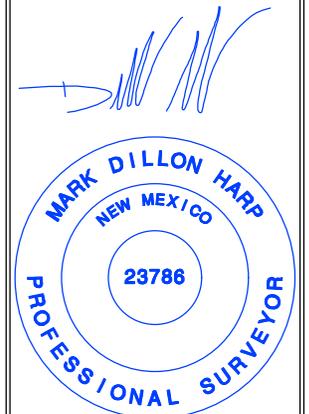
jean.cooper@exxonmobil.com  
E-mail Address

<sup>18</sup> 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.

09-26-2023  
Date of Survey

Signature and Seal of Professional Surveyor:



MARK DILLON HARP 23786  
Certificate Number

KC 618.013003.12-14

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

XTO Energy Inc.  
 PLU 17 Twin Wells Ranch 203H  
 Projected TD: 20939.14' MD / 10014' TVD  
 SHL: 313' FNL & 1715' FWL , Section 20, T24S, R31E  
 BHL: 50' FSL & 1710' FWL , Section 29, T24S, R31E  
 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	584'	Water
Top of Salt	945'	Water
Base of Salt	4120'	Water
Delaware	4331'	Water
Brushy Canyon	6847'	Water/Oil/Gas
Bone Spring	8173'	Water
1st Bone Spring	9150'	Water/Oil/Gas
2nd Bone Spring	9939'	Water/Oil/Gas
<b>Target/Land Curve</b>	<b>10014'</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 @ 684' (261' 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 9201.2' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20939.14 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8901.2 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 684'	9.625	40	J-55	BTC	New	1.38	9.20	23.03
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.20	2.52	2.04
8.75	4000' – 9201.2'	7.625	29.7	HC L-80	Flush Joint	New	1.60	2.00	2.63
6.75	0' – 9101.2'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.88	2.26
6.75	9101.2' - 20939.14'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.71	2.26

- 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 +/- 684'**

Lead: 120 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 +/- 9201.2'**

###### 1st Stage

Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)  
 TOC: Surface  
 Tail: 210 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 TOC: Brushy Canyon @ 6847  
 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: 770 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 (6847') 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 +/- 20939.14'**

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement:       8901.2 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:       9401.2 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 4306 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' - 684'	12.25	FW/Native	8.4-8.9	35-40	NC
684' - 9201.2'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
9201.2' - 20939.14'	6.75	OBM	12.5-13	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 165 to 185 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 6509 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 - 203H

**Measured Depth:** 20939.14 ft

**Site:** A

**TVD RKB:** 10036.00 ft

**Slot:** 203H

**Location**

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

**Northing:** 440191.70 ft

**Easting:** 664224.30 ft

**RKB:** 3551.00 ft

**Ground Level:** 3519.00 ft

**North Reference:** Grid

**Convergence Angle:** 0.28 Deg

**Plan Sections** 203H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build	Turn	Dogleg	Target
						Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	
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	
1718.10	10.36	359.27	1715.28	46.72	-0.60	2.00	0.00	2.00	
6363.30	10.36	359.27	6284.72	882.16	-11.26	0.00	0.00	0.00	
6881.40	0.00	0.00	6800.00	928.88	-11.86	-2.00	0.00	2.00	
9401.20	0.00	0.00	9319.80	928.88	-11.86	0.00	0.00	0.00	
10526.20	90.00	179.61	10036.00	212.70	-7.00	8.00	0.00	8.00	FTP 7
20889.14	90.00	179.61	10036.00	-10150.00	63.30	0.00	0.00	0.00	LTP 7
20939.14	90.00	179.61	10036.00	-10200.00	63.64	0.00	0.00	0.00	BHL 7

**Position Uncertainty** 203H

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

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.348	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	2.446	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	2.488	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	2.534	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	2.585	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	2.638	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	2.695	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	2.000	359.269	1299.980	5.297	0.000	4.961	0.000	2.755	0.000	0.000	5.631	4.582	124.801	MWD+IFR1+MS
1400.000	4.000	359.269	1399.838	6.072	0.000	5.319	0.000	2.819	0.000	0.000	6.359	4.985	117.318	MWD+IFR1+MS
1500.000	6.000	359.269	1499.452	6.770	0.000	5.677	0.000	2.887	0.000	0.000	7.048	5.355	113.541	MWD+IFR1+MS
1600.000	8.000	359.269	1598.702	7.412	0.000	6.033	0.000	2.962	0.000	0.000	7.696	5.713	111.348	MWD+IFR1+MS
1700.000	10.000	359.269	1697.465	8.010	0.000	6.389	0.000	3.047	0.000	0.000	8.310	6.066	109.943	MWD+IFR1+MS
1718.097	10.362	359.269	1715.278	8.057	0.000	6.448	0.000	3.055	0.000	0.000	8.362	6.129	109.896	MWD+IFR1+MS
1800.000	10.362	359.269	1795.845	8.291	0.000	6.723	0.000	3.116	0.000	0.000	8.589	6.415	109.913	MWD+IFR1+MS
1900.000	10.362	359.269	1894.214	8.591	0.000	7.078	0.000	3.195	0.000	0.000	8.888	6.772	110.233	MWD+IFR1+MS
2000.000	10.362	359.269	1992.583	8.901	0.000	7.439	0.000	3.277	0.000	0.000	9.197	7.132	110.620	MWD+IFR1+MS
2100.000	10.362	359.269	2090.952	9.216	0.000	7.801	0.000	3.362	0.000	0.000	9.511	7.494	110.992	MWD+IFR1+MS
2200.000	10.362	359.269	2189.321	9.536	0.000	8.164	0.000	3.449	0.000	0.000	9.830	7.856	111.349	MWD+IFR1+MS
2300.000	10.362	359.269	2287.690	9.860	0.000	8.527	0.000	3.539	0.000	0.000	10.152	8.219	111.692	MWD+IFR1+MS
2400.000	10.362	359.269	2386.059	10.188	0.000	8.891	0.000	3.631	0.000	0.000	10.478	8.582	112.021	MWD+IFR1+MS
2500.000	10.362	359.269	2484.428	10.520	0.000	9.256	0.000	3.724	0.000	0.000	10.808	8.946	112.338	MWD+IFR1+MS
2600.000	10.362	359.269	2582.798	10.855	0.000	9.622	0.000	3.820	0.000	0.000	11.140	9.311	112.641	MWD+IFR1+MS
2700.000	10.362	359.269	2681.167	11.192	0.000	9.988	0.000	3.917	0.000	0.000	11.475	9.676	112.932	MWD+IFR1+MS
2800.000	10.362	359.269	2779.536	11.533	0.000	10.354	0.000	4.016	0.000	0.000	11.812	10.041	113.212	MWD+IFR1+MS
2900.000	10.362	359.269	2877.905	11.876	0.000	10.720	0.000	4.117	0.000	0.000	12.152	10.407	113.480	MWD+IFR1+MS

3000.000	10.362	359.269	2976.274	12.221	0.000	11.088	0.000	4.219	0.000	0.000	12.494	10.773	113.737	MWD+IFR1+MS
3100.000	10.362	359.269	3074.643	12.568	0.000	11.455	0.000	4.323	0.000	0.000	12.838	11.140	113.984	MWD+IFR1+MS
3200.000	10.362	359.269	3173.012	12.917	0.000	11.822	0.000	4.429	0.000	0.000	13.183	11.507	114.221	MWD+IFR1+MS
3300.000	10.362	359.269	3271.381	13.267	0.000	12.190	0.000	4.536	0.000	0.000	13.530	11.874	114.448	MWD+IFR1+MS
3400.000	10.362	359.269	3369.750	13.620	0.000	12.558	0.000	4.644	0.000	0.000	13.879	12.241	114.666	MWD+IFR1+MS
3500.000	10.362	359.269	3468.120	13.974	0.000	12.927	0.000	4.754	0.000	0.000	14.229	12.609	114.875	MWD+IFR1+MS
3600.000	10.362	359.269	3566.489	14.329	0.000	13.295	0.000	4.866	0.000	0.000	14.580	12.977	115.075	MWD+IFR1+MS
3700.000	10.362	359.269	3664.858	14.685	0.000	13.664	0.000	4.979	0.000	0.000	14.932	13.345	115.267	MWD+IFR1+MS
3800.000	10.362	359.269	3763.227	15.043	0.000	14.033	0.000	5.093	0.000	0.000	15.286	13.713	115.451	MWD+IFR1+MS
3900.000	10.362	359.269	3861.596	15.402	0.000	14.402	0.000	5.209	0.000	0.000	15.640	14.081	115.627	MWD+IFR1+MS
4000.000	10.362	359.269	3959.965	15.761	0.000	14.771	0.000	5.326	0.000	0.000	15.996	14.450	115.796	MWD+IFR1+MS
4100.000	10.362	359.269	4058.334	16.122	0.000	15.140	0.000	5.445	0.000	0.000	16.352	14.818	115.957	MWD+IFR1+MS
4200.000	10.362	359.269	4156.703	16.484	0.000	15.510	0.000	5.565	0.000	0.000	16.709	15.187	116.112	MWD+IFR1+MS
4300.000	10.362	359.269	4255.073	16.846	0.000	15.879	0.000	5.687	0.000	0.000	17.067	15.556	116.260	MWD+IFR1+MS
4400.000	10.362	359.269	4353.442	17.209	0.000	16.249	0.000	5.810	0.000	0.000	17.426	15.925	116.402	MWD+IFR1+MS
4500.000	10.362	359.269	4451.811	17.573	0.000	16.619	0.000	5.935	0.000	0.000	17.785	16.295	116.537	MWD+IFR1+MS
4600.000	10.362	359.269	4550.180	17.938	0.000	16.988	0.000	6.061	0.000	0.000	18.145	16.664	116.667	MWD+IFR1+MS
4700.000	10.362	359.269	4648.549	18.303	0.000	17.358	0.000	6.189	0.000	0.000	18.506	17.034	116.791	MWD+IFR1+MS
4800.000	10.362	359.269	4746.918	18.669	0.000	17.728	0.000	6.319	0.000	0.000	18.867	17.403	116.909	MWD+IFR1+MS
4900.000	10.362	359.269	4845.287	19.036	0.000	18.098	0.000	6.450	0.000	0.000	19.229	17.773	117.022	MWD+IFR1+MS
5000.000	10.362	359.269	4943.656	19.403	0.000	18.469	0.000	6.582	0.000	0.000	19.591	18.143	117.129	MWD+IFR1+MS
5100.000	10.362	359.269	5042.025	19.770	0.000	18.839	0.000	6.717	0.000	0.000	19.954	18.513	117.232	MWD+IFR1+MS
5200.000	10.362	359.269	5140.395	20.138	0.000	19.209	0.000	6.853	0.000	0.000	20.317	18.883	117.329	MWD+IFR1+MS
5300.000	10.362	359.269	5238.764	20.507	0.000	19.579	0.000	6.991	0.000	0.000	20.680	19.253	117.422	MWD+IFR1+MS
5400.000	10.362	359.269	5337.133	20.876	0.000	19.950	0.000	7.130	0.000	0.000	21.044	19.623	117.511	MWD+IFR1+MS
5500.000	10.362	359.269	5435.502	21.245	0.000	20.320	0.000	7.272	0.000	0.000	21.409	19.993	117.595	MWD+IFR1+MS
5600.000	10.362	359.269	5533.871	21.615	0.000	20.691	0.000	7.415	0.000	0.000	21.773	20.363	117.674	MWD+IFR1+MS
5700.000	10.362	359.269	5632.240	21.985	0.000	21.061	0.000	7.560	0.000	0.000	22.138	20.734	117.750	MWD+IFR1+MS
5800.000	10.362	359.269	5730.609	22.355	0.000	21.432	0.000	7.707	0.000	0.000	22.504	21.104	117.821	MWD+IFR1+MS
5900.000	10.362	359.269	5828.978	22.726	0.000	21.803	0.000	7.856	0.000	0.000	22.870	21.475	117.889	MWD+IFR1+MS
6000.000	10.362	359.269	5927.347	23.097	0.000	22.173	0.000	8.006	0.000	0.000	23.236	21.845	117.953	MWD+IFR1+MS
6100.000	10.362	359.269	6025.717	23.468	0.000	22.544	0.000	8.159	0.000	0.000	23.602	22.216	118.013	MWD+IFR1+MS
6200.000	10.362	359.269	6124.086	23.840	0.000	22.915	0.000	8.313	0.000	0.000	23.969	22.587	118.069	MWD+IFR1+MS

6300.000	10.362	359.269	6222.455	24.212	0.000	23.286	0.000	8.470	0.000	0.000	24.336	22.957	118.122	MWD+IFR1+MS
6363.300	10.362	359.269	6284.722	24.445	0.000	23.517	0.000	8.570	0.000	0.000	24.563	23.191	118.091	MWD+IFR1+MS
6400.000	9.628	359.269	6320.865	24.589	0.000	23.651	0.000	8.628	0.000	0.000	24.694	23.327	118.047	MWD+IFR1+MS
6500.000	7.628	359.269	6419.728	25.008	0.000	24.014	0.000	8.789	0.000	0.000	25.094	23.696	117.411	MWD+IFR1+MS
6600.000	5.628	359.269	6519.055	25.449	0.000	24.376	0.000	8.950	0.000	0.000	25.546	24.063	116.301	MWD+IFR1+MS
6700.000	3.628	359.269	6618.724	25.853	0.000	24.734	0.000	9.104	0.000	0.000	25.992	24.423	115.340	MWD+IFR1+MS
6800.000	1.628	359.269	6718.614	26.219	0.000	25.086	0.000	9.255	0.000	0.000	26.430	24.777	114.513	MWD+IFR1+MS
6881.397	0.000	0.000	6800.000	26.477	0.000	25.350	0.000	9.375	0.000	0.000	26.752	25.060	114.115	MWD+IFR1+MS
6900.000	0.000	0.000	6818.603	26.538	0.000	25.413	0.000	9.402	0.000	0.000	26.813	25.124	114.107	MWD+IFR1+MS
7000.000	0.000	0.000	6918.603	26.867	0.000	25.754	0.000	9.551	0.000	0.000	27.140	25.467	114.135	MWD+IFR1+MS
7100.000	0.000	0.000	7018.603	27.202	0.000	26.100	0.000	9.701	0.000	0.000	27.475	25.811	114.265	MWD+IFR1+MS
7200.000	0.000	0.000	7118.603	27.536	0.000	26.446	0.000	9.855	0.000	0.000	27.811	26.156	114.392	MWD+IFR1+MS
7300.000	0.000	0.000	7218.603	27.872	0.000	26.792	0.000	10.011	0.000	0.000	28.148	26.502	114.517	MWD+IFR1+MS
7400.000	0.000	0.000	7318.603	28.207	0.000	27.139	0.000	10.170	0.000	0.000	28.485	26.847	114.641	MWD+IFR1+MS
7500.000	0.000	0.000	7418.603	28.544	0.000	27.486	0.000	10.332	0.000	0.000	28.823	27.193	114.763	MWD+IFR1+MS
7600.000	0.000	0.000	7518.603	28.881	0.000	27.834	0.000	10.497	0.000	0.000	29.161	27.540	114.883	MWD+IFR1+MS
7700.000	0.000	0.000	7618.603	29.218	0.000	28.181	0.000	10.664	0.000	0.000	29.500	27.886	115.001	MWD+IFR1+MS
7800.000	0.000	0.000	7718.603	29.556	0.000	28.529	0.000	10.835	0.000	0.000	29.839	28.233	115.118	MWD+IFR1+MS
7900.000	0.000	0.000	7818.603	29.895	0.000	28.877	0.000	11.008	0.000	0.000	30.179	28.580	115.233	MWD+IFR1+MS
8000.000	0.000	0.000	7918.603	30.234	0.000	29.226	0.000	11.184	0.000	0.000	30.519	28.928	115.346	MWD+IFR1+MS
8100.000	0.000	0.000	8018.603	30.573	0.000	29.575	0.000	11.363	0.000	0.000	30.860	29.275	115.458	MWD+IFR1+MS
8200.000	0.000	0.000	8118.603	30.913	0.000	29.923	0.000	11.545	0.000	0.000	31.200	29.623	115.568	MWD+IFR1+MS
8300.000	0.000	0.000	8218.603	31.253	0.000	30.273	0.000	11.730	0.000	0.000	31.542	29.971	115.677	MWD+IFR1+MS
8400.000	0.000	0.000	8318.603	31.594	0.000	30.622	0.000	11.918	0.000	0.000	31.884	30.320	115.785	MWD+IFR1+MS
8500.000	0.000	0.000	8418.603	31.935	0.000	30.971	0.000	12.109	0.000	0.000	32.226	30.668	115.890	MWD+IFR1+MS
8600.000	0.000	0.000	8518.603	32.276	0.000	31.321	0.000	12.303	0.000	0.000	32.568	31.017	115.995	MWD+IFR1+MS
8700.000	0.000	0.000	8618.603	32.618	0.000	31.671	0.000	12.500	0.000	0.000	32.911	31.366	116.098	MWD+IFR1+MS
8800.000	0.000	0.000	8718.603	32.960	0.000	32.021	0.000	12.699	0.000	0.000	33.254	31.716	116.199	MWD+IFR1+MS
8900.000	0.000	0.000	8818.603	33.302	0.000	32.372	0.000	12.902	0.000	0.000	33.598	32.065	116.299	MWD+IFR1+MS
9000.000	0.000	0.000	8918.603	33.645	0.000	32.722	0.000	13.108	0.000	0.000	33.941	32.415	116.398	MWD+IFR1+MS
9100.000	0.000	0.000	9018.603	33.988	0.000	33.073	0.000	13.317	0.000	0.000	34.285	32.764	116.496	MWD+IFR1+MS
9200.000	0.000	0.000	9118.603	34.332	0.000	33.424	0.000	13.529	0.000	0.000	34.630	33.114	116.592	MWD+IFR1+MS
9300.000	0.000	0.000	9218.603	34.675	0.000	33.774	0.000	13.744	0.000	0.000	34.975	33.464	116.687	MWD+IFR1+MS

9401.200	0.000	0.000	9319.803	35.024	0.000	34.130	0.000	13.965	0.000	0.000	35.324	33.819	116.785	MWD+IFR1+MS
9500.000	7.904	179.611	9418.290	34.871	0.000	34.456	-0.000	14.190	0.000	0.000	35.829	34.186	113.252	MWD+IFR1+MS
9600.000	15.904	179.611	9516.060	35.095	0.000	34.746	-0.000	14.515	0.000	0.000	37.133	34.554	105.135	MWD+IFR1+MS
9700.000	23.904	179.611	9610.010	34.795	0.000	35.011	-0.000	15.034	0.000	0.000	38.338	34.846	101.858	MWD+IFR1+MS
9800.000	31.904	179.611	9698.311	34.023	0.000	35.248	-0.000	15.808	0.000	0.000	39.371	35.093	100.280	MWD+IFR1+MS
9900.000	39.904	179.611	9779.246	32.875	0.000	35.457	-0.000	16.861	0.000	0.000	40.215	35.303	99.465	MWD+IFR1+MS
10000.000	47.904	179.611	9851.237	31.475	0.000	35.635	-0.000	18.180	0.000	0.000	40.866	35.479	99.066	MWD+IFR1+MS
10100.000	55.904	179.611	9912.885	29.984	0.000	35.784	-0.000	19.721	0.000	0.000	41.334	35.623	98.921	MWD+IFR1+MS
10200.000	63.904	179.611	9962.990	28.594	0.000	35.903	-0.000	21.423	0.000	0.000	41.637	35.735	98.937	MWD+IFR1+MS
10300.000	71.904	179.611	10000.575	27.526	0.000	35.992	-0.000	23.223	0.000	0.000	41.804	35.818	99.049	MWD+IFR1+MS
10400.000	79.904	179.611	10024.910	26.993	0.000	36.052	-0.000	25.056	0.000	0.000	41.873	35.872	99.190	MWD+IFR1+MS
10500.000	87.904	179.611	10035.521	27.155	0.000	36.082	-0.000	26.860	0.000	0.000	41.887	35.899	99.285	MWD+IFR1+MS
10526.200	90.000	179.611	10036.000	26.947	0.000	36.083	-0.000	26.947	0.000	0.000	41.888	35.901	99.286	MWD+IFR1+MS
10600.000	90.000	179.611	10036.000	27.096	0.000	36.090	-0.000	27.096	0.000	0.000	41.888	35.907	99.293	MWD+IFR1+MS
10700.000	90.000	179.611	10036.000	27.293	0.000	36.117	-0.000	27.293	0.000	0.000	41.891	35.934	99.329	MWD+IFR1+MS
10800.000	90.000	179.611	10036.000	27.513	0.000	36.162	-0.000	27.513	0.000	0.000	41.893	35.977	99.391	MWD+IFR1+MS
10900.000	90.000	179.611	10036.000	27.753	0.000	36.222	-0.000	27.753	0.000	0.000	41.897	36.037	99.478	MWD+IFR1+MS
11000.000	90.000	179.611	10036.000	28.013	0.000	36.299	-0.000	28.013	0.000	0.000	41.902	36.112	99.590	MWD+IFR1+MS
11100.000	90.000	179.611	10036.000	28.293	0.000	36.392	-0.000	28.293	0.000	0.000	41.908	36.202	99.729	MWD+IFR1+MS
11200.000	90.000	179.611	10036.000	28.591	0.000	36.500	-0.000	28.591	0.000	0.000	41.915	36.308	99.899	MWD+IFR1+MS
11300.000	90.000	179.611	10036.000	28.907	0.000	36.624	-0.000	28.907	0.000	0.000	41.923	36.429	100.101	MWD+IFR1+MS
11400.000	90.000	179.611	10036.000	29.242	0.000	36.764	-0.000	29.242	0.000	0.000	41.932	36.565	100.338	MWD+IFR1+MS
11500.000	90.000	179.611	10036.000	29.593	0.000	36.919	-0.000	29.593	0.000	0.000	41.942	36.715	100.616	MWD+IFR1+MS
11600.000	90.000	179.611	10036.000	29.960	0.000	37.089	-0.000	29.960	0.000	0.000	41.954	36.881	100.938	MWD+IFR1+MS
11700.000	90.000	179.611	10036.000	30.344	0.000	37.274	-0.000	30.344	0.000	0.000	41.967	37.060	101.312	MWD+IFR1+MS
11800.000	90.000	179.611	10036.000	30.743	0.000	37.474	-0.000	30.743	0.000	0.000	41.981	37.253	101.746	MWD+IFR1+MS
11900.000	90.000	179.611	10036.000	31.156	0.000	37.689	-0.000	31.156	0.000	0.000	41.998	37.459	102.249	MWD+IFR1+MS
12000.000	90.000	179.611	10036.000	31.583	0.000	37.917	-0.000	31.583	0.000	0.000	42.016	37.678	102.834	MWD+IFR1+MS
12100.000	90.000	179.611	10036.000	32.025	0.000	38.160	-0.000	32.025	0.000	0.000	42.036	37.909	103.517	MWD+IFR1+MS
12200.000	90.000	179.611	10036.000	32.479	0.000	38.416	-0.000	32.479	0.000	0.000	42.059	38.152	104.318	MWD+IFR1+MS
12300.000	90.000	179.611	10036.000	32.945	0.000	38.686	-0.000	32.945	0.000	0.000	42.085	38.406	105.265	MWD+IFR1+MS
12400.000	90.000	179.611	10036.000	33.423	0.000	38.969	-0.000	33.423	0.000	0.000	42.115	38.670	106.392	MWD+IFR1+MS
12500.000	90.000	179.611	10036.000	33.913	0.000	39.265	-0.000	33.913	0.000	0.000	42.150	38.943	107.743	MWD+IFR1+MS

12600.000	90.000	179.611	10036.000	34.414	0.000	39.573	-0.000	34.414	0.000	0.000	42.190	39.223	109.380	MWD+IFR1+MS
12700.000	90.000	179.611	10036.000	34.925	0.000	39.894	-0.000	34.925	0.000	0.000	42.239	39.507	111.378	MWD+IFR1+MS
12800.000	90.000	179.611	10036.000	35.446	0.000	40.227	-0.000	35.446	0.000	0.000	42.297	39.795	113.838	MWD+IFR1+MS
12900.000	90.000	179.611	10036.000	35.977	0.000	40.571	-0.000	35.977	0.000	0.000	42.370	40.080	116.878	MWD+IFR1+MS
13000.000	90.000	179.611	10036.000	36.517	0.000	40.927	-0.000	36.517	0.000	0.000	42.461	40.359	120.621	MWD+IFR1+MS
13100.000	90.000	179.611	10036.000	37.065	0.000	41.295	-0.000	37.065	0.000	0.000	42.577	40.624	125.152	MWD+IFR1+MS
13200.000	90.000	179.611	10036.000	37.622	0.000	41.672	-0.000	37.622	0.000	0.000	42.726	40.868	130.436	MWD+IFR1+MS
13300.000	90.000	179.611	10036.000	38.187	0.000	42.061	-0.000	38.187	0.000	0.000	42.915	41.083	-43.770	MWD+IFR1+MS
13400.000	90.000	179.611	10036.000	38.760	0.000	42.460	-0.000	38.760	0.000	0.000	43.148	41.265	-37.906	MWD+IFR1+MS
13500.000	90.000	179.611	10036.000	39.340	0.000	42.868	-0.000	39.340	0.000	0.000	43.426	41.413	-32.442	MWD+IFR1+MS
13600.000	90.000	179.611	10036.000	39.927	0.000	43.287	-0.000	39.927	0.000	0.000	43.742	41.532	-27.682	MWD+IFR1+MS
13700.000	90.000	179.611	10036.000	40.521	0.000	43.714	-0.000	40.521	0.000	0.000	44.091	41.628	-23.714	MWD+IFR1+MS
13800.000	90.000	179.611	10036.000	41.121	0.000	44.151	-0.000	41.121	0.000	0.000	44.468	41.707	-20.477	MWD+IFR1+MS
13900.000	90.000	179.611	10036.000	41.727	0.000	44.597	-0.000	41.727	0.000	0.000	44.867	41.772	-17.851	MWD+IFR1+MS
14000.000	90.000	179.611	10036.000	42.339	0.000	45.051	-0.000	42.339	0.000	0.000	45.284	41.828	-15.715	MWD+IFR1+MS
14100.000	90.000	179.611	10036.000	42.957	0.000	45.514	-0.000	42.957	0.000	0.000	45.717	41.878	-13.963	MWD+IFR1+MS
14200.000	90.000	179.611	10036.000	43.580	0.000	45.985	-0.000	43.580	0.000	0.000	46.164	41.922	-12.513	MWD+IFR1+MS
14300.000	90.000	179.611	10036.000	44.208	0.000	46.464	-0.000	44.208	0.000	0.000	46.622	41.963	-11.299	MWD+IFR1+MS
14400.000	90.000	179.611	10036.000	44.841	0.000	46.950	-0.000	44.841	0.000	0.000	47.092	42.001	-10.272	MWD+IFR1+MS
14500.000	90.000	179.611	10036.000	45.479	0.000	47.443	-0.000	45.479	0.000	0.000	47.571	42.037	-9.396	MWD+IFR1+MS
14600.000	90.000	179.611	10036.000	46.122	0.000	47.944	-0.000	46.122	0.000	0.000	48.060	42.072	-8.641	MWD+IFR1+MS
14700.000	90.000	179.611	10036.000	46.769	0.000	48.452	-0.000	46.769	0.000	0.000	48.557	42.105	-7.986	MWD+IFR1+MS
14800.000	90.000	179.611	10036.000	47.419	0.000	48.966	-0.000	47.419	0.000	0.000	49.063	42.137	-7.412	MWD+IFR1+MS
14900.000	90.000	179.611	10036.000	48.074	0.000	49.487	-0.000	48.074	0.000	0.000	49.576	42.169	-6.907	MWD+IFR1+MS
15000.000	90.000	179.611	10036.000	48.733	0.000	50.014	-0.000	48.733	0.000	0.000	50.096	42.201	-6.459	MWD+IFR1+MS
15100.000	90.000	179.611	10036.000	49.396	0.000	50.548	-0.000	49.396	0.000	0.000	50.623	42.232	-6.059	MWD+IFR1+MS
15200.000	90.000	179.611	10036.000	50.062	0.000	51.087	-0.000	50.062	0.000	0.000	51.156	42.263	-5.701	MWD+IFR1+MS
15300.000	90.000	179.611	10036.000	50.731	0.000	51.632	-0.000	50.731	0.000	0.000	51.696	42.294	-5.379	MWD+IFR1+MS
15400.000	90.000	179.611	10036.000	51.404	0.000	52.182	-0.000	51.404	0.000	0.000	52.242	42.324	-5.087	MWD+IFR1+MS
15500.000	90.000	179.611	10036.000	52.079	0.000	52.738	-0.000	52.079	0.000	0.000	52.794	42.355	-4.823	MWD+IFR1+MS
15600.000	90.000	179.611	10036.000	52.758	0.000	53.299	-0.000	52.758	0.000	0.000	53.352	42.386	-4.582	MWD+IFR1+MS
15700.000	90.000	179.611	10036.000	53.440	0.000	53.865	-0.000	53.440	0.000	0.000	53.914	42.418	-4.361	MWD+IFR1+MS
15800.000	90.000	179.611	10036.000	54.124	0.000	54.436	-0.000	54.124	0.000	0.000	54.482	42.449	-4.159	MWD+IFR1+MS

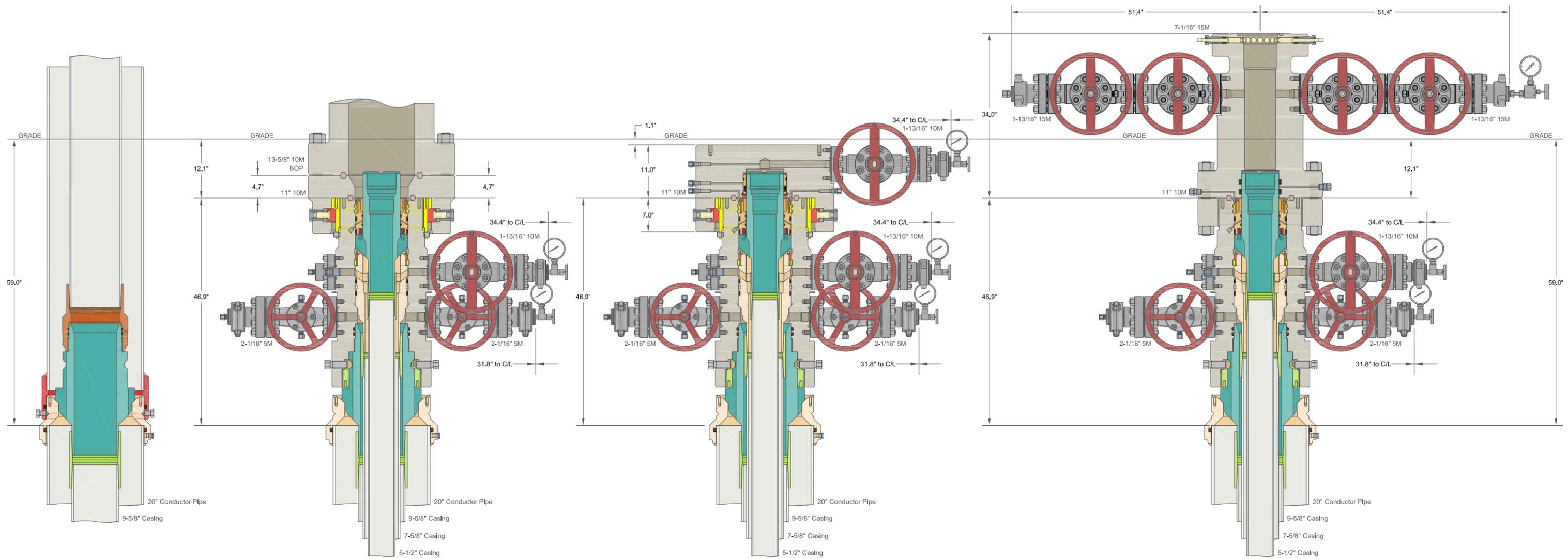
15900.000	90.000	179.611	10036.000	54.812	0.000	55.012	-0.000	54.812	0.000	0.000	55.055	42.481	-3.972	MWD+IFR1+MS
16000.000	90.000	179.611	10036.000	55.501	0.000	55.592	-0.000	55.501	0.000	0.000	55.633	42.513	-3.801	MWD+IFR1+MS
16100.000	90.000	179.611	10036.000	56.194	0.000	56.177	-0.000	56.194	0.000	0.000	56.215	42.545	-3.642	MWD+IFR1+MS
16200.000	90.000	179.611	10036.000	56.888	0.000	56.766	-0.000	56.888	0.000	0.000	56.802	42.578	-3.494	MWD+IFR1+MS
16300.000	90.000	179.611	10036.000	57.585	0.000	57.359	-0.000	57.585	0.000	0.000	57.393	42.611	-3.358	MWD+IFR1+MS
16400.000	90.000	179.611	10036.000	58.285	0.000	57.956	-0.000	58.285	0.000	0.000	57.989	42.644	-3.230	MWD+IFR1+MS
16500.000	90.000	179.611	10036.000	58.986	0.000	58.557	-0.000	58.986	0.000	0.000	58.588	42.678	-3.111	MWD+IFR1+MS
16600.000	90.000	179.611	10036.000	59.689	0.000	59.162	-0.000	59.689	0.000	0.000	59.192	42.712	-3.000	MWD+IFR1+MS
16700.000	90.000	179.611	10036.000	60.395	0.000	59.771	-0.000	60.395	0.000	0.000	59.799	42.746	-2.896	MWD+IFR1+MS
16800.000	90.000	179.611	10036.000	61.102	0.000	60.383	-0.000	61.102	0.000	0.000	60.410	42.781	-2.798	MWD+IFR1+MS
16900.000	90.000	179.611	10036.000	61.812	0.000	60.999	-0.000	61.812	0.000	0.000	61.024	42.816	-2.706	MWD+IFR1+MS
17000.000	90.000	179.611	10036.000	62.523	0.000	61.618	-0.000	62.523	0.000	0.000	61.642	42.851	-2.620	MWD+IFR1+MS
17100.000	90.000	179.611	10036.000	63.235	0.000	62.240	-0.000	63.235	0.000	0.000	62.263	42.887	-2.538	MWD+IFR1+MS
17200.000	90.000	179.611	10036.000	63.950	0.000	62.866	-0.000	63.950	0.000	0.000	62.887	42.924	-2.462	MWD+IFR1+MS
17300.000	90.000	179.611	10036.000	64.666	0.000	63.494	-0.000	64.666	0.000	0.000	63.515	42.961	-2.389	MWD+IFR1+MS
17400.000	90.000	179.611	10036.000	65.384	0.000	64.126	-0.000	65.384	0.000	0.000	64.146	42.998	-2.320	MWD+IFR1+MS
17500.000	90.000	179.611	10036.000	66.103	0.000	64.760	-0.000	66.103	0.000	0.000	64.779	43.036	-2.255	MWD+IFR1+MS
17600.000	90.000	179.611	10036.000	66.824	0.000	65.397	-0.000	66.824	0.000	0.000	65.416	43.074	-2.194	MWD+IFR1+MS
17700.000	90.000	179.611	10036.000	67.546	0.000	66.037	-0.000	67.546	0.000	0.000	66.055	43.112	-2.135	MWD+IFR1+MS
17800.000	90.000	179.611	10036.000	68.269	0.000	66.680	-0.000	68.269	0.000	0.000	66.697	43.151	-2.080	MWD+IFR1+MS
17900.000	90.000	179.611	10036.000	68.994	0.000	67.325	-0.000	68.994	0.000	0.000	67.341	43.191	-2.027	MWD+IFR1+MS
18000.000	90.000	179.611	10036.000	69.720	0.000	67.972	-0.000	69.720	0.000	0.000	67.988	43.231	-1.976	MWD+IFR1+MS
18100.000	90.000	179.611	10036.000	70.448	0.000	68.623	-0.000	70.448	0.000	0.000	68.637	43.271	-1.928	MWD+IFR1+MS
18200.000	90.000	179.611	10036.000	71.176	0.000	69.275	-0.000	71.176	0.000	0.000	69.289	43.312	-1.883	MWD+IFR1+MS
18300.000	90.000	179.611	10036.000	71.906	0.000	69.930	-0.000	71.906	0.000	0.000	69.944	43.353	-1.839	MWD+IFR1+MS
18400.000	90.000	179.611	10036.000	72.637	0.000	70.587	-0.000	72.637	0.000	0.000	70.600	43.395	-1.797	MWD+IFR1+MS
18500.000	90.000	179.611	10036.000	73.369	0.000	71.246	-0.000	73.369	0.000	0.000	71.259	43.437	-1.757	MWD+IFR1+MS
18600.000	90.000	179.611	10036.000	74.102	0.000	71.907	-0.000	74.102	0.000	0.000	71.919	43.479	-1.719	MWD+IFR1+MS
18700.000	90.000	179.611	10036.000	74.837	0.000	72.570	-0.000	74.837	0.000	0.000	72.582	43.522	-1.683	MWD+IFR1+MS
18800.000	90.000	179.611	10036.000	75.572	0.000	73.236	-0.000	75.572	0.000	0.000	73.247	43.566	-1.648	MWD+IFR1+MS
18900.000	90.000	179.611	10036.000	76.308	0.000	73.903	-0.000	76.308	0.000	0.000	73.914	43.610	-1.614	MWD+IFR1+MS
19000.000	90.000	179.611	10036.000	77.045	0.000	74.572	-0.000	77.045	0.000	0.000	74.583	43.654	-1.582	MWD+IFR1+MS
19100.000	90.000	179.611	10036.000	77.783	0.000	75.243	-0.000	77.783	0.000	0.000	75.253	43.699	-1.551	MWD+IFR1+MS

19200.000	90.000	179.611	10036.000	78.522	0.000	75.916	-0.000	78.522	0.000	0.000	75.926	43.744	-1.521	MWD+IFR1+MS
19300.000	90.000	179.611	10036.000	79.262	0.000	76.590	-0.000	79.262	0.000	0.000	76.600	43.790	-1.493	MWD+IFR1+MS
19400.000	90.000	179.611	10036.000	80.003	0.000	77.267	-0.000	80.003	0.000	0.000	77.276	43.836	-1.466	MWD+IFR1+MS
19500.000	90.000	179.611	10036.000	80.744	0.000	77.944	-0.000	80.744	0.000	0.000	77.953	43.882	-1.439	MWD+IFR1+MS
19600.000	90.000	179.611	10036.000	81.487	0.000	78.624	-0.000	81.487	0.000	0.000	78.633	43.929	-1.414	MWD+IFR1+MS
19700.000	90.000	179.611	10036.000	82.230	0.000	79.305	-0.000	82.230	0.000	0.000	79.313	43.977	-1.389	MWD+IFR1+MS
19800.000	90.000	179.611	10036.000	82.974	0.000	79.987	-0.000	82.974	0.000	0.000	79.996	44.025	-1.366	MWD+IFR1+MS
19900.000	90.000	179.611	10036.000	83.719	0.000	80.672	-0.000	83.719	0.000	0.000	80.679	44.073	-1.343	MWD+IFR1+MS
20000.000	90.000	179.611	10036.000	84.464	0.000	81.357	-0.000	84.464	0.000	0.000	81.365	44.122	-1.321	MWD+IFR1+MS
20100.000	90.000	179.611	10036.000	85.210	0.000	82.044	-0.000	85.210	0.000	0.000	82.051	44.171	-1.300	MWD+IFR1+MS
20200.000	90.000	179.611	10036.000	85.957	0.000	82.732	-0.000	85.957	0.000	0.000	82.739	44.220	-1.279	MWD+IFR1+MS
20300.000	90.000	179.611	10036.000	86.704	0.000	83.422	-0.000	86.704	0.000	0.000	83.429	44.271	-1.260	MWD+IFR1+MS
20400.000	90.000	179.611	10036.000	87.452	0.000	84.113	-0.000	87.452	0.000	0.000	84.120	44.321	-1.240	MWD+IFR1+MS
20500.000	90.000	179.611	10036.000	88.201	0.000	84.805	-0.000	88.201	0.000	0.000	84.812	44.372	-1.222	MWD+IFR1+MS
20600.000	90.000	179.611	10036.000	88.951	0.000	85.499	-0.000	88.951	0.000	0.000	85.505	44.423	-1.204	MWD+IFR1+MS
20700.000	90.000	179.611	10036.000	89.701	0.000	86.193	-0.000	89.701	0.000	0.000	86.200	44.475	-1.187	MWD+IFR1+MS
20800.000	90.000	179.611	10036.000	90.451	0.000	86.889	-0.000	90.451	0.000	0.000	86.895	44.528	-1.170	MWD+IFR1+MS
20889.138	90.000	179.611	10036.000	91.120	0.000	87.510	-0.000	91.120	0.000	0.000	87.516	44.574	-1.156	MWD+IFR1+MS
20900.000	90.000	179.611	10036.000	91.202	0.000	87.585	-0.000	91.202	0.000	0.000	87.591	44.580	-1.154	MWD+IFR1+MS
20939.139	90.000	179.611	10036.000	91.495	0.000	87.857	-0.000	91.495	0.000	0.000	87.863	44.601	-1.148	MWD+IFR1+MS

Plan Targets

203H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 7	10526.20	440404.40	664217.30	6485.00	RECTANGLE
LTP 7	20889.14	430041.70	664287.60	6485.00	RECTANGLE
BHL 7	20939.14	429991.70	664287.90	6485.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

# CACTUS WELLHEAD LLC

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	31MAR22
APPRV		
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 291539

**CONDITIONS**

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 291539
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply,	12/8/2023