

Well Name: POKER LAKE UNIT 17 TWR	Well Location: T24S / R31E / SEC 20 / NWNE /	County or Parish/State:
Well Number: 511H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061705B	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

Notice of Intent

Sundry ID: 2760413

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/08/2023

Time Sundry Submitted: 07:46

Date proposed operation will begin: 11/27/2023

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make changes to the Approved APD (10400091050) 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: 695' FNL & 1559' FEL TO: 620' FNL & 1528' FEL of Section 20-T24S-R31E FTP: FROM: 100' FNL & 1320' FEL TO: 100' FNL & 660' FEL of Section 20-T24S-R31E LTP: FROM: 100' FSL & 1320' FEL TO: 100' FSL & 660' FEL of Section 29-T24S-R31E BHL: FROM: 50' FSL & 1320' FEL TO: 50' FSL & 660' FEL 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_511H_Sundry_Attachments_20231108074458.pdf

Well Name: POKER LAKE UNIT 17
TWR

Well Location: T24S / R31E / SEC 20 /
NWE /

County or Parish/State:

Well Number: 511H

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Unit or CA Name:

Unit or CA Number:
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Well Status: Approved Application for
Permit to Drill

Operator: XTO PERMIAN
OPERATING LLC

Conditions of Approval

Additional

Sec_20_24S_30E_NMP_Sundry_2760413_Poker_Lake_Unit_17_TWR_511H_COAs_20231211143102.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 07:45 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: 12/28/2023

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/511H**

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 (10400091050) 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: 695 FNL & 1559 FEL TO: 620 FNL & 1528 FEL of Section 20-T24S-R31E
 FTP: FROM: 100 FNL & 1320 FEL TO: 100 FNL & 660 FEL of Section 20-T24S-R31E
 LTP: FROM: 100 FSL & 1320 FEL TO: 100 FSL & 660 FEL of Section 29-T24S-R31E
 BHL: FROM: 50 FSL & 1320 FEL TO: 50 FSL & 660 FEL 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 **12/28/2023**

Office **CARLSBAD**

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.

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: NWNE / 695 FNL / 1559 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.20817 / LONG: -103.796333 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 330 FNL / 1320 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.200125 / LONG: -103.795541 (TVD: 10137 feet, MD: 13300 feet)
PPP: NENE / 100 FNL / 1320 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209806 / LONG: -103.795563 (TVD: 10137 feet, MD: 10600 feet)
PPP: NENE / 330 FNL / 1320 FEL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.190411 / LONG: -103.795535 (TVD: 10137 feet, MD: 15900 feet)
BHL: SESE / 50 FSL / 1320 FEL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.181181 / LONG: -103.795521 (TVD: 10137 feet, MD: 20973 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Poker Lake Unit 17 TWR 511H
LOCATION:	Sec 20-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Engineering changes addressed through **Sundry 27620413** on 12/11/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> Batch APD / Sundry				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 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 708 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 6829'**
 - 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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
10400091050

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code 96403	³ Pool Name Wildcat; Bone Spring
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 17 TWR	⁶ Well Number 511H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,520'

¹⁰ Surface Location

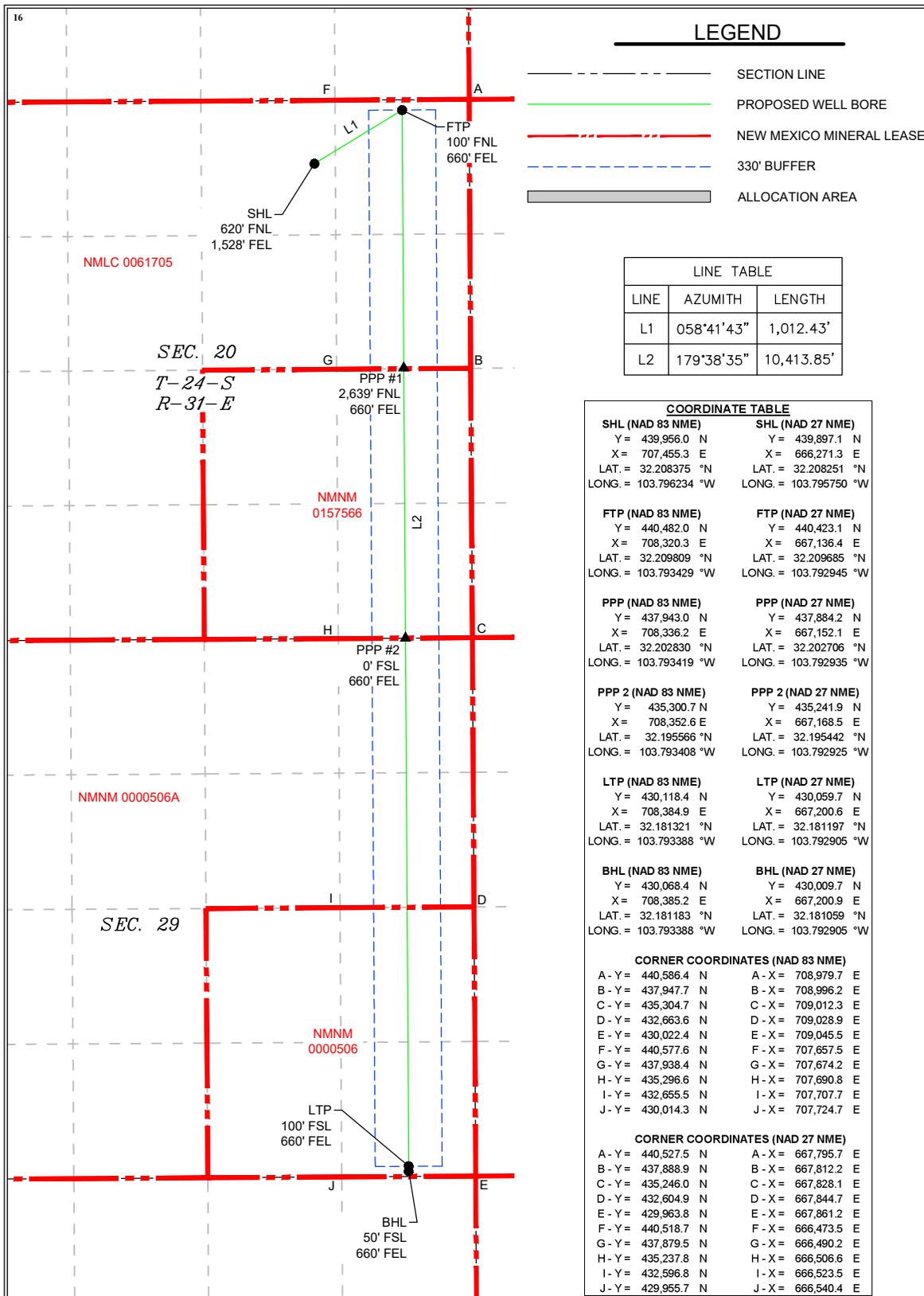
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	20	24S	31E		620	NORTH	1,528	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	29	24S	31E		50	SOUTH	660	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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	058°41'4.3"	1,012.43'
L2	179°38'35"	10,413.85'

COORDINATE TABLE

SHL (NAD 83 NME)		SHL (NAD 27 NME)	
Y = 439,956.0 N	X = 707,455.3 E	Y = 439,897.1 N	X = 666,271.3 E
LAT. = 32.208375 °N	LONG. = 103.796234 °W	LAT. = 32.208251 °N	LONG. = 103.795750 °W
FTP (NAD 83 NME)		FTP (NAD 27 NME)	
Y = 440,482.0 N	X = 708,320.3 E	Y = 440,423.1 N	X = 667,136.4 E
LAT. = 32.209809 °N	LONG. = 103.793429 °W	LAT. = 32.209685 °N	LONG. = 103.792945 °W
PPP #1 (NAD 83 NME)		PPP #1 (NAD 27 NME)	
Y = 437,943.0 N	X = 708,336.2 E	Y = 437,884.2 N	X = 667,152.1 E
LAT. = 32.202830 °N	LONG. = 103.793419 °W	LAT. = 32.202706 °N	LONG. = 103.792935 °W
PPP #2 (NAD 83 NME)		PPP #2 (NAD 27 NME)	
Y = 435,300.7 N	X = 708,352.6 E	Y = 435,241.9 N	X = 667,168.5 E
LAT. = 32.195566 °N	LONG. = 103.793408 °W	LAT. = 32.195442 °N	LONG. = 103.792925 °W
LTP (NAD 83 NME)		LTP (NAD 27 NME)	
Y = 430,118.4 N	X = 708,384.9 E	Y = 430,059.7 N	X = 667,200.6 E
LAT. = 32.181321 °N	LONG. = 103.793388 °W	LAT. = 32.181197 °N	LONG. = 103.792905 °W
BHL (NAD 83 NME)		BHL (NAD 27 NME)	
Y = 430,068.4 N	X = 708,385.2 E	Y = 430,009.7 N	X = 667,200.9 E
LAT. = 32.181183 °N	LONG. = 103.793388 °W	LAT. = 32.181059 °N	LONG. = 103.792905 °W
CORNER COORDINATES (NAD 83 NME)			
A - Y = 440,586.4 N	B - Y = 437,947.7 N	C - Y = 435,304.7 N	D - Y = 432,663.6 N
E - Y = 430,022.4 N	F - Y = 440,577.6 N	G - Y = 437,938.4 N	H - Y = 435,296.6 N
I - Y = 432,655.5 N	J - Y = 430,014.3 N	A - X = 708,979.7 E	B - X = 708,996.2 E
C - X = 709,012.3 E	D - X = 709,028.9 E	E - X = 709,045.5 E	F - X = 707,657.5 E
G - X = 707,674.2 E	H - X = 707,690.8 E	I - X = 707,707.7 E	J - X = 707,724.7 E
CORNER COORDINATES (NAD 27 NME)			
A - Y = 440,527.5 N	B - Y = 437,888.9 N	C - Y = 435,246.0 N	D - Y = 432,604.9 N
E - Y = 429,963.8 N	F - Y = 440,518.7 N	G - Y = 437,879.5 N	H - Y = 435,237.8 N
I - Y = 432,596.8 N	J - Y = 429,955.7 N	A - X = 667,795.7 E	B - X = 667,812.2 E
C - X = 667,828.1 E	D - X = 667,844.7 E	E - X = 667,861.2 E	F - X = 666,473.5 E
G - X = 666,490.2 E	H - X = 666,506.6 E	I - X = 666,523.5 E	J - X = 666,540.4 E

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jean A. Cooper
Signature

Date

Jean A. Cooper

Printed Name

jean.cooper@exxonmobil.com

E-mail Address

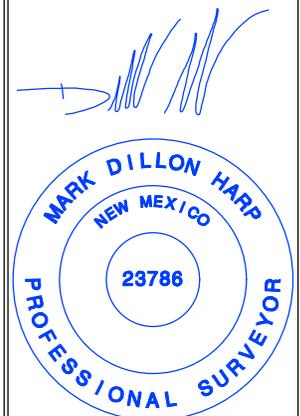
¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

09-26-2023

Date of Survey

Signature and Seal of Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

KC 618.013003.12-20

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

XTO Energy Inc.
 PLU 17 Twin Wells Ranch 511H
 Projected TD: 21359.78' MD / 10316' TVD
 SHL: 620' FNL & 1528' FWL , Section 20, T24S, R31E
 BHL: 50' FSL & 660' 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	608'	Water
Top of Salt	984'	Water
Base of Salt	4146'	Water
Delaware	4363'	Water
Brushy Canyon	6897'	Water/Oil/Gas
Bone Spring	8243'	Water
1st Bone Spring	9228'	Water/Oil/Gas
2nd Bone Spring	9986'	Water/Oil/Gas
Target/Land Curve	10316'	Water/Oil/Gas

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 708' (276' 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 8500' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21359.78 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8200 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 708'	9.625	40	J-55	BTC	New	1.50	8.89	22.25
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.13	2.52	2.21
8.75	4000' – 8500'	7.625	29.7	HC L-80	Flush Joint	New	1.55	2.16	3.04
6.75	0' – 8400'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.03	2.20
6.75	8400' - 21359.78'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.66	2.20

- 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 +/- 708'

Lead: 130 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 8500'

1st Stage

Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 140 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6897

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)

Tail: 780 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6897') 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 +/- 21359.78'

Lead: 60 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8200 feet

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9821.19 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 4436 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' - 708'	12.25	FW/Native	8.4-8.9	35-40	NC
708' - 8500'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
8500' - 21359.78'	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 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 6705 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 - 511H

Measured Depth: 21360.78 ft

TVD RKB: 10316.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 439897.10 ft

Easting: 666271.30 ft

RKB: 3552.00 ft

Ground Level: 3520.00 ft

North Reference: Grid

Convergence Angle: 0.29 Deg

Plan Sections 511H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1990.89	17.82	34.72	1976.60	112.95	78.26	2.00	0.00	2.00	
6031.50	17.82	34.72	5823.40	1129.23	782.41	0.00	0.00	0.00	
6922.39	0.00	0.00	6700.00	1242.18	860.66	-2.00	0.00	2.00	
9822.19	0.00	0.00	9599.80	1242.18	860.66	0.00	0.00	0.00	
10947.19	90.00	179.65	10316.00	526.00	865.10	8.00	0.00	8.00	FTP 2
21310.79	90.00	179.65	10316.00	-9837.40	929.30	0.00	0.00	0.00	LTP 2
21360.78	90.00	179.65	10316.00	-9887.38	929.61	0.00	0.00	0.00	BHL 2

Position Uncertainty 511H

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	2.446	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	2.000	34.717	1199.980	5.285	0.000	4.225	0.000	2.695	0.000	0.000	5.298	4.211	130.828	MWD+IFR1+MS
1300.000	4.000	34.717	1299.838	6.034	0.000	4.615	0.000	2.756	0.000	0.000	6.075	4.574	133.560	MWD+IFR1+MS
1400.000	6.000	34.717	1399.452	6.713	0.000	5.000	0.000	2.822	0.000	0.000	6.783	4.932	134.847	MWD+IFR1+MS
1500.000	8.000	34.717	1498.702	7.338	0.000	5.381	0.000	2.895	0.000	0.000	7.440	5.289	-44.410	MWD+IFR1+MS
1600.000	10.000	34.717	1597.465	7.922	0.000	5.759	0.000	2.978	0.000	0.000	8.056	5.646	-43.925	MWD+IFR1+MS
1700.000	12.000	34.717	1695.623	8.471	0.000	6.135	0.000	3.073	0.000	0.000	8.639	6.004	-43.582	MWD+IFR1+MS
1800.000	14.000	34.717	1793.055	8.992	0.000	6.511	0.000	3.181	0.000	0.000	9.196	6.364	-43.321	MWD+IFR1+MS
1900.000	16.000	34.717	1889.643	9.488	0.000	6.887	0.000	3.304	0.000	0.000	9.730	6.726	-43.112	MWD+IFR1+MS
1990.889	17.818	34.717	1976.599	9.877	0.000	7.227	0.000	3.419	0.000	0.000	10.158	7.057	-42.994	MWD+IFR1+MS
2000.000	17.818	34.717	1985.273	9.901	0.000	7.259	0.000	3.421	0.000	0.000	10.184	7.091	-43.013	MWD+IFR1+MS
2100.000	17.818	34.717	2080.476	10.173	0.000	7.623	0.000	3.513	0.000	0.000	10.441	7.463	-42.996	MWD+IFR1+MS
2200.000	17.818	34.717	2175.680	10.467	0.000	8.007	0.000	3.614	0.000	0.000	10.722	7.849	-42.740	MWD+IFR1+MS
2300.000	17.818	34.717	2270.883	10.769	0.000	8.394	0.000	3.720	0.000	0.000	11.011	8.236	-42.487	MWD+IFR1+MS
2400.000	17.818	34.717	2366.087	11.078	0.000	8.782	0.000	3.829	0.000	0.000	11.307	8.625	-42.236	MWD+IFR1+MS
2500.000	17.818	34.717	2461.290	11.395	0.000	9.171	0.000	3.943	0.000	0.000	11.609	9.015	-41.988	MWD+IFR1+MS
2600.000	17.818	34.717	2556.494	11.718	0.000	9.562	0.000	4.059	0.000	0.000	11.916	9.407	-41.741	MWD+IFR1+MS
2700.000	17.818	34.717	2651.697	12.046	0.000	9.953	0.000	4.179	0.000	0.000	12.230	9.800	-41.497	MWD+IFR1+MS
2800.000	17.818	34.717	2746.901	12.381	0.000	10.346	0.000	4.302	0.000	0.000	12.548	10.193	-41.254	MWD+IFR1+MS
2900.000	17.818	34.717	2842.104	12.720	0.000	10.740	0.000	4.428	0.000	0.000	12.871	10.588	-41.014	MWD+IFR1+MS

3000.000	17.818	34.717	2937.307	13.064	0.000	11.135	0.000	4.557	0.000	0.000	13.198	10.983	-40.775	MWD+IFR1+MS
3100.000	17.818	34.717	3032.511	13.412	0.000	11.530	0.000	4.688	0.000	0.000	13.529	11.379	-40.538	MWD+IFR1+MS
3200.000	17.818	34.717	3127.714	13.764	0.000	11.926	0.000	4.821	0.000	0.000	13.864	11.775	-40.303	MWD+IFR1+MS
3300.000	17.818	34.717	3222.918	14.120	0.000	12.323	0.000	4.956	0.000	0.000	14.202	12.172	-40.069	MWD+IFR1+MS
3400.000	17.818	34.717	3318.121	14.480	0.000	12.720	0.000	5.094	0.000	0.000	14.543	12.570	-39.837	MWD+IFR1+MS
3500.000	17.818	34.717	3413.325	14.842	0.000	13.118	0.000	5.234	0.000	0.000	14.888	12.968	-39.606	MWD+IFR1+MS
3600.000	17.818	34.717	3508.528	15.207	0.000	13.516	0.000	5.375	0.000	0.000	15.235	13.367	-39.376	MWD+IFR1+MS
3700.000	17.818	34.717	3603.732	15.575	0.000	13.914	0.000	5.518	0.000	0.000	15.584	13.765	-39.148	MWD+IFR1+MS
3800.000	17.818	34.717	3698.935	15.946	0.000	14.313	0.000	5.663	0.000	0.000	15.937	14.165	-38.920	MWD+IFR1+MS
3900.000	17.818	34.717	3794.138	16.319	0.000	14.713	0.000	5.810	0.000	0.000	16.291	14.564	-38.694	MWD+IFR1+MS
4000.000	17.818	34.717	3889.342	16.694	0.000	15.112	0.000	5.958	0.000	0.000	16.648	14.964	-38.469	MWD+IFR1+MS
4100.000	17.818	34.717	3984.545	17.071	0.000	15.512	0.000	6.108	0.000	0.000	17.006	15.364	-38.244	MWD+IFR1+MS
4200.000	17.818	34.717	4079.749	17.450	0.000	15.912	0.000	6.260	0.000	0.000	17.366	15.765	-38.021	MWD+IFR1+MS
4300.000	17.818	34.717	4174.952	17.831	0.000	16.313	0.000	6.413	0.000	0.000	17.729	16.165	-37.798	MWD+IFR1+MS
4400.000	17.818	34.717	4270.156	18.213	0.000	16.713	0.000	6.568	0.000	0.000	18.092	16.566	-37.576	MWD+IFR1+MS
4500.000	17.818	34.717	4365.359	18.597	0.000	17.114	0.000	6.724	0.000	0.000	18.458	16.967	-37.355	MWD+IFR1+MS
4600.000	17.818	34.717	4460.563	18.983	0.000	17.515	0.000	6.882	0.000	0.000	18.825	17.369	-37.135	MWD+IFR1+MS
4700.000	17.818	34.717	4555.766	19.370	0.000	17.916	0.000	7.041	0.000	0.000	19.193	17.770	-36.915	MWD+IFR1+MS
4800.000	17.818	34.717	4650.970	19.758	0.000	18.318	0.000	7.202	0.000	0.000	19.562	18.172	-36.696	MWD+IFR1+MS
4900.000	17.818	34.717	4746.173	20.147	0.000	18.719	0.000	7.364	0.000	0.000	19.933	18.573	-36.477	MWD+IFR1+MS
5000.000	17.818	34.717	4841.376	20.538	0.000	19.121	0.000	7.527	0.000	0.000	20.305	18.975	-36.259	MWD+IFR1+MS
5100.000	17.818	34.717	4936.580	20.930	0.000	19.523	0.000	7.692	0.000	0.000	20.678	19.378	-36.041	MWD+IFR1+MS
5200.000	17.818	34.717	5031.783	21.323	0.000	19.925	0.000	7.859	0.000	0.000	21.052	19.780	-35.823	MWD+IFR1+MS
5300.000	17.818	34.717	5126.987	21.716	0.000	20.327	0.000	8.027	0.000	0.000	21.427	20.182	-35.606	MWD+IFR1+MS
5400.000	17.818	34.717	5222.190	22.111	0.000	20.729	0.000	8.196	0.000	0.000	21.803	20.585	-35.390	MWD+IFR1+MS
5500.000	17.818	34.717	5317.394	22.507	0.000	21.132	0.000	8.367	0.000	0.000	22.180	20.987	-35.174	MWD+IFR1+MS
5600.000	17.818	34.717	5412.597	22.903	0.000	21.534	0.000	8.540	0.000	0.000	22.558	21.390	-34.958	MWD+IFR1+MS
5700.000	17.818	34.717	5507.801	23.300	0.000	21.937	0.000	8.714	0.000	0.000	22.937	21.793	-34.742	MWD+IFR1+MS
5800.000	17.818	34.717	5603.004	23.698	0.000	22.340	0.000	8.889	0.000	0.000	23.316	22.196	-34.527	MWD+IFR1+MS
5900.000	17.818	34.717	5698.207	24.097	0.000	22.742	0.000	9.066	0.000	0.000	23.696	22.599	-34.312	MWD+IFR1+MS
6000.000	17.818	34.717	5793.411	24.496	0.000	23.145	0.000	9.245	0.000	0.000	24.077	23.002	-34.097	MWD+IFR1+MS
6031.501	17.818	34.717	5823.401	24.620	0.000	23.270	0.000	9.301	0.000	0.000	24.194	23.128	-34.114	MWD+IFR1+MS
6100.000	16.448	34.717	5888.859	24.928	0.000	23.540	0.000	9.424	0.000	0.000	24.454	23.401	-34.187	MWD+IFR1+MS

6200.000	14.448	34.717	5985.241	25.412	0.000	23.931	0.000	9.611	0.000	0.000	24.894	23.793	-34.725	MWD+IFR1+MS
6300.000	12.448	34.717	6082.494	25.887	0.000	24.317	0.000	9.792	0.000	0.000	25.359	24.177	-35.380	MWD+IFR1+MS
6400.000	10.448	34.717	6180.500	26.320	0.000	24.693	0.000	9.961	0.000	0.000	25.817	24.552	-35.963	MWD+IFR1+MS
6500.000	8.448	34.717	6279.139	26.712	0.000	25.061	0.000	10.118	0.000	0.000	26.266	24.917	-36.475	MWD+IFR1+MS
6600.000	6.448	34.717	6378.290	27.061	0.000	25.420	0.000	10.266	0.000	0.000	26.706	25.274	-36.918	MWD+IFR1+MS
6700.000	4.448	34.717	6477.833	27.369	0.000	25.769	0.000	10.406	0.000	0.000	27.135	25.620	-37.295	MWD+IFR1+MS
6800.000	2.448	34.717	6577.647	27.635	0.000	26.109	0.000	10.539	0.000	0.000	27.554	25.957	-37.611	MWD+IFR1+MS
6900.000	0.448	34.717	6677.610	27.859	0.000	26.439	0.000	10.667	0.000	0.000	27.960	26.285	-37.869	MWD+IFR1+MS
6922.390	0.000	0.000	6700.000	26.999	0.000	27.410	0.000	10.695	0.000	0.000	28.028	26.357	-37.889	MWD+IFR1+MS
7000.000	0.000	0.000	6777.610	27.244	0.000	27.645	0.000	10.793	0.000	0.000	28.259	26.607	-37.966	MWD+IFR1+MS
7100.000	0.000	0.000	6877.610	27.562	0.000	27.954	0.000	10.920	0.000	0.000	28.564	26.929	-38.055	MWD+IFR1+MS
7200.000	0.000	0.000	6977.610	27.882	0.000	28.265	0.000	11.051	0.000	0.000	28.872	27.253	-38.156	MWD+IFR1+MS
7300.000	0.000	0.000	7077.610	28.203	0.000	28.577	0.000	11.185	0.000	0.000	29.182	27.577	-38.256	MWD+IFR1+MS
7400.000	0.000	0.000	7177.610	28.525	0.000	28.890	0.000	11.321	0.000	0.000	29.492	27.902	-38.355	MWD+IFR1+MS
7500.000	0.000	0.000	7277.610	28.848	0.000	29.205	0.000	11.461	0.000	0.000	29.804	28.228	-38.454	MWD+IFR1+MS
7600.000	0.000	0.000	7377.610	29.171	0.000	29.520	0.000	11.604	0.000	0.000	30.117	28.554	-38.553	MWD+IFR1+MS
7700.000	0.000	0.000	7477.610	29.496	0.000	29.836	0.000	11.749	0.000	0.000	30.431	28.882	-38.651	MWD+IFR1+MS
7800.000	0.000	0.000	7577.610	29.821	0.000	30.153	0.000	11.898	0.000	0.000	30.746	29.210	-38.749	MWD+IFR1+MS
7900.000	0.000	0.000	7677.610	30.147	0.000	30.472	0.000	12.050	0.000	0.000	31.062	29.539	-38.846	MWD+IFR1+MS
8000.000	0.000	0.000	7777.610	30.474	0.000	30.791	0.000	12.205	0.000	0.000	31.378	29.868	-38.943	MWD+IFR1+MS
8100.000	0.000	0.000	7877.610	30.801	0.000	31.111	0.000	12.363	0.000	0.000	31.696	30.198	-39.040	MWD+IFR1+MS
8200.000	0.000	0.000	7977.610	31.129	0.000	31.431	0.000	12.524	0.000	0.000	32.015	30.529	-39.136	MWD+IFR1+MS
8300.000	0.000	0.000	8077.610	31.458	0.000	31.753	0.000	12.688	0.000	0.000	32.334	30.861	-39.232	MWD+IFR1+MS
8400.000	0.000	0.000	8177.610	31.788	0.000	32.075	0.000	12.855	0.000	0.000	32.654	31.193	-39.327	MWD+IFR1+MS
8500.000	0.000	0.000	8277.610	32.118	0.000	32.398	0.000	13.026	0.000	0.000	32.975	31.525	-39.422	MWD+IFR1+MS
8600.000	0.000	0.000	8377.610	32.448	0.000	32.722	0.000	13.200	0.000	0.000	33.297	31.858	-39.516	MWD+IFR1+MS
8700.000	0.000	0.000	8477.610	32.780	0.000	33.046	0.000	13.377	0.000	0.000	33.619	32.192	-39.610	MWD+IFR1+MS
8800.000	0.000	0.000	8577.610	33.111	0.000	33.372	0.000	13.557	0.000	0.000	33.942	32.526	-39.704	MWD+IFR1+MS
8900.000	0.000	0.000	8677.610	33.444	0.000	33.698	0.000	13.741	0.000	0.000	34.266	32.861	-39.797	MWD+IFR1+MS
9000.000	0.000	0.000	8777.610	33.777	0.000	34.024	0.000	13.928	0.000	0.000	34.591	33.196	-39.889	MWD+IFR1+MS
9100.000	0.000	0.000	8877.610	34.110	0.000	34.351	0.000	14.118	0.000	0.000	34.916	33.531	-39.982	MWD+IFR1+MS
9200.000	0.000	0.000	8977.610	34.444	0.000	34.679	0.000	14.311	0.000	0.000	35.242	33.868	-40.074	MWD+IFR1+MS
9300.000	0.000	0.000	9077.610	34.778	0.000	35.008	0.000	14.508	0.000	0.000	35.569	34.204	-40.165	MWD+IFR1+MS

9400.000	0.000	0.000	9177.610	35.113	0.000	35.337	0.000	14.707	0.000	0.000	35.896	34.541	-40.256	MWD+IFR1+MS
9500.000	0.000	0.000	9277.610	35.449	0.000	35.666	0.000	14.911	0.000	0.000	36.224	34.878	-40.347	MWD+IFR1+MS
9600.000	0.000	0.000	9377.610	35.784	0.000	35.996	0.000	15.117	0.000	0.000	36.552	35.216	-40.437	MWD+IFR1+MS
9700.000	0.000	0.000	9477.610	36.121	0.000	36.327	0.000	15.327	0.000	0.000	36.881	35.554	-40.527	MWD+IFR1+MS
9800.000	0.000	0.000	9577.610	36.457	0.000	36.658	0.000	15.540	0.000	0.000	37.211	35.893	-40.616	MWD+IFR1+MS
9822.193	0.000	0.000	9599.803	36.531	0.000	36.731	0.000	15.588	0.000	0.000	37.282	35.968	-40.629	MWD+IFR1+MS
9900.000	6.225	179.645	9677.457	36.198	0.000	36.977	-0.000	15.755	0.000	0.000	37.560	36.267	-42.803	MWD+IFR1+MS
10000.000	14.225	179.645	9775.789	36.052	0.000	37.253	-0.000	16.030	0.000	0.000	38.396	36.842	120.362	MWD+IFR1+MS
10100.000	22.225	179.645	9870.696	35.623	0.000	37.504	-0.000	16.479	0.000	0.000	39.478	37.228	109.865	MWD+IFR1+MS
10200.000	30.225	179.645	9960.330	34.735	0.000	37.725	-0.000	17.159	0.000	0.000	40.465	37.500	105.353	MWD+IFR1+MS
10300.000	38.225	179.645	10042.946	33.492	0.000	37.916	-0.000	18.106	0.000	0.000	41.290	37.711	103.160	MWD+IFR1+MS
10400.000	46.225	179.645	10116.938	32.030	0.000	38.074	-0.000	19.318	0.000	0.000	41.935	37.877	102.057	MWD+IFR1+MS
10500.000	54.225	179.645	10180.864	30.519	0.000	38.200	-0.000	20.763	0.000	0.000	42.405	38.002	101.572	MWD+IFR1+MS
10600.000	62.225	179.645	10233.480	29.163	0.000	38.295	-0.000	22.388	0.000	0.000	42.715	38.089	101.487	MWD+IFR1+MS
10700.000	70.225	179.645	10273.763	28.185	0.000	38.360	-0.000	24.133	0.000	0.000	42.895	38.141	101.677	MWD+IFR1+MS
10800.000	78.225	179.645	10300.928	27.794	0.000	38.394	-0.000	25.932	0.000	0.000	42.977	38.158	102.042	MWD+IFR1+MS
10900.000	86.225	179.645	10314.446	28.128	0.000	38.398	-0.000	27.724	0.000	0.000	43.005	38.144	102.476	MWD+IFR1+MS
10947.193	90.000	179.645	10316.000	28.013	0.000	38.388	-0.000	28.013	0.000	0.000	43.013	38.125	102.653	MWD+IFR1+MS
11000.000	90.000	179.645	10316.000	28.159	0.000	38.375	-0.000	28.159	0.000	0.000	43.021	38.102	102.851	MWD+IFR1+MS
11100.000	90.000	179.645	10316.000	28.403	0.000	38.365	-0.000	28.403	0.000	0.000	43.039	38.073	103.258	MWD+IFR1+MS
11200.000	90.000	179.645	10316.000	28.668	0.000	38.372	-0.000	28.668	0.000	0.000	43.058	38.060	103.700	MWD+IFR1+MS
11300.000	90.000	179.645	10316.000	28.952	0.000	38.395	-0.000	28.952	0.000	0.000	43.079	38.060	104.175	MWD+IFR1+MS
11400.000	90.000	179.645	10316.000	29.255	0.000	38.433	-0.000	29.255	0.000	0.000	43.103	38.074	104.684	MWD+IFR1+MS
11500.000	90.000	179.645	10316.000	29.575	0.000	38.487	-0.000	29.575	0.000	0.000	43.128	38.102	105.232	MWD+IFR1+MS
11600.000	90.000	179.645	10316.000	29.913	0.000	38.555	-0.000	29.913	0.000	0.000	43.156	38.143	105.822	MWD+IFR1+MS
11700.000	90.000	179.645	10316.000	30.267	0.000	38.638	-0.000	30.267	0.000	0.000	43.187	38.196	106.457	MWD+IFR1+MS
11800.000	90.000	179.645	10316.000	30.637	0.000	38.737	-0.000	30.637	0.000	0.000	43.220	38.263	107.143	MWD+IFR1+MS
11900.000	90.000	179.645	10316.000	31.022	0.000	38.850	-0.000	31.022	0.000	0.000	43.256	38.341	107.883	MWD+IFR1+MS
12000.000	90.000	179.645	10316.000	31.422	0.000	38.978	-0.000	31.422	0.000	0.000	43.296	38.432	108.683	MWD+IFR1+MS
12100.000	90.000	179.645	10316.000	31.837	0.000	39.121	-0.000	31.837	0.000	0.000	43.340	38.533	109.549	MWD+IFR1+MS
12200.000	90.000	179.645	10316.000	32.266	0.000	39.277	-0.000	32.266	0.000	0.000	43.388	38.645	110.487	MWD+IFR1+MS
12300.000	90.000	179.645	10316.000	32.707	0.000	39.449	-0.000	32.707	0.000	0.000	43.441	38.768	111.504	MWD+IFR1+MS
12400.000	90.000	179.645	10316.000	33.162	0.000	39.634	-0.000	33.162	0.000	0.000	43.499	38.899	112.607	MWD+IFR1+MS

12500.000	90.000	179.645	10316.000	33.628	0.000	39.833	-0.000	33.628	0.000	0.000	43.563	39.039	113.803	MWD+IFR1+MS
12600.000	90.000	179.645	10316.000	34.106	0.000	40.046	-0.000	34.106	0.000	0.000	43.634	39.187	115.099	MWD+IFR1+MS
12700.000	90.000	179.645	10316.000	34.596	0.000	40.272	-0.000	34.596	0.000	0.000	43.712	39.341	116.503	MWD+IFR1+MS
12800.000	90.000	179.645	10316.000	35.096	0.000	40.511	-0.000	35.096	0.000	0.000	43.798	39.501	118.019	MWD+IFR1+MS
12900.000	90.000	179.645	10316.000	35.606	0.000	40.763	-0.000	35.606	0.000	0.000	43.894	39.664	119.653	MWD+IFR1+MS
13000.000	90.000	179.645	10316.000	36.127	0.000	41.029	-0.000	36.127	0.000	0.000	44.001	39.831	121.407	MWD+IFR1+MS
13100.000	90.000	179.645	10316.000	36.656	0.000	41.306	-0.000	36.656	0.000	0.000	44.119	39.998	123.278	MWD+IFR1+MS
13200.000	90.000	179.645	10316.000	37.195	0.000	41.596	-0.000	37.195	0.000	0.000	44.250	40.166	125.262	MWD+IFR1+MS
13300.000	90.000	179.645	10316.000	37.742	0.000	41.898	-0.000	37.742	0.000	0.000	44.395	40.332	127.349	MWD+IFR1+MS
13400.000	90.000	179.645	10316.000	38.298	0.000	42.211	-0.000	38.298	0.000	0.000	44.556	40.494	129.521	MWD+IFR1+MS
13500.000	90.000	179.645	10316.000	38.861	0.000	42.536	-0.000	38.861	0.000	0.000	44.734	40.652	131.758	MWD+IFR1+MS
13600.000	90.000	179.645	10316.000	39.432	0.000	42.872	-0.000	39.432	0.000	0.000	44.929	40.804	134.036	MWD+IFR1+MS
13700.000	90.000	179.645	10316.000	40.011	0.000	43.219	-0.000	40.011	0.000	0.000	45.142	40.950	-43.676	MWD+IFR1+MS
13800.000	90.000	179.645	10316.000	40.596	0.000	43.577	-0.000	40.596	0.000	0.000	45.374	41.088	-41.405	MWD+IFR1+MS
13900.000	90.000	179.645	10316.000	41.188	0.000	43.946	-0.000	41.188	0.000	0.000	45.625	41.218	-39.181	MWD+IFR1+MS
14000.000	90.000	179.645	10316.000	41.786	0.000	44.324	-0.000	41.786	0.000	0.000	45.895	41.341	-37.026	MWD+IFR1+MS
14100.000	90.000	179.645	10316.000	42.390	0.000	44.712	-0.000	42.390	0.000	0.000	46.183	41.455	-34.962	MWD+IFR1+MS
14200.000	90.000	179.645	10316.000	43.000	0.000	45.110	-0.000	43.000	0.000	0.000	46.489	41.561	-33.002	MWD+IFR1+MS
14300.000	90.000	179.645	10316.000	43.616	0.000	45.518	-0.000	43.616	0.000	0.000	46.812	41.661	-31.156	MWD+IFR1+MS
14400.000	90.000	179.645	10316.000	44.237	0.000	45.934	-0.000	44.237	0.000	0.000	47.152	41.753	-29.428	MWD+IFR1+MS
14500.000	90.000	179.645	10316.000	44.863	0.000	46.360	-0.000	44.863	0.000	0.000	47.507	41.839	-27.819	MWD+IFR1+MS
14600.000	90.000	179.645	10316.000	45.495	0.000	46.794	-0.000	45.495	0.000	0.000	47.877	41.920	-26.327	MWD+IFR1+MS
14700.000	90.000	179.645	10316.000	46.130	0.000	47.236	-0.000	46.130	0.000	0.000	48.262	41.996	-24.945	MWD+IFR1+MS
14800.000	90.000	179.645	10316.000	46.771	0.000	47.687	-0.000	46.771	0.000	0.000	48.659	42.067	-23.669	MWD+IFR1+MS
14900.000	90.000	179.645	10316.000	47.415	0.000	48.145	-0.000	47.415	0.000	0.000	49.069	42.134	-22.491	MWD+IFR1+MS
15000.000	90.000	179.645	10316.000	48.064	0.000	48.612	-0.000	48.064	0.000	0.000	49.491	42.198	-21.403	MWD+IFR1+MS
15100.000	90.000	179.645	10316.000	48.717	0.000	49.086	-0.000	48.717	0.000	0.000	49.924	42.258	-20.399	MWD+IFR1+MS
15200.000	90.000	179.645	10316.000	49.374	0.000	49.567	-0.000	49.374	0.000	0.000	50.368	42.316	-19.472	MWD+IFR1+MS
15300.000	90.000	179.645	10316.000	50.034	0.000	50.055	-0.000	50.034	0.000	0.000	50.821	42.372	-18.614	MWD+IFR1+MS
15400.000	90.000	179.645	10316.000	50.698	0.000	50.550	-0.000	50.698	0.000	0.000	51.285	42.425	-17.820	MWD+IFR1+MS
15500.000	90.000	179.645	10316.000	51.366	0.000	51.052	-0.000	51.366	0.000	0.000	51.757	42.477	-17.084	MWD+IFR1+MS
15600.000	90.000	179.645	10316.000	52.036	0.000	51.560	-0.000	52.036	0.000	0.000	52.238	42.527	-16.401	MWD+IFR1+MS
15700.000	90.000	179.645	10316.000	52.710	0.000	52.075	-0.000	52.710	0.000	0.000	52.727	42.576	-15.766	MWD+IFR1+MS

15800.000	90.000	179.645	10316.000	53.387	0.000	52.596	-0.000	53.387	0.000	0.000	53.224	42.623	-15.174	MWD+IFR1+MS
15900.000	90.000	179.645	10316.000	54.067	0.000	53.122	-0.000	54.067	0.000	0.000	53.728	42.670	-14.622	MWD+IFR1+MS
16000.000	90.000	179.645	10316.000	54.749	0.000	53.655	-0.000	54.749	0.000	0.000	54.240	42.715	-14.106	MWD+IFR1+MS
16100.000	90.000	179.645	10316.000	55.434	0.000	54.193	-0.000	55.434	0.000	0.000	54.758	42.760	-13.624	MWD+IFR1+MS
16200.000	90.000	179.645	10316.000	56.122	0.000	54.736	-0.000	56.122	0.000	0.000	55.283	42.804	-13.171	MWD+IFR1+MS
16300.000	90.000	179.645	10316.000	56.813	0.000	55.285	-0.000	56.813	0.000	0.000	55.815	42.848	-12.747	MWD+IFR1+MS
16400.000	90.000	179.645	10316.000	57.505	0.000	55.838	-0.000	57.505	0.000	0.000	56.352	42.891	-12.348	MWD+IFR1+MS
16500.000	90.000	179.645	10316.000	58.201	0.000	56.397	-0.000	58.201	0.000	0.000	56.896	42.934	-11.972	MWD+IFR1+MS
16600.000	90.000	179.645	10316.000	58.898	0.000	56.961	-0.000	58.898	0.000	0.000	57.445	42.977	-11.618	MWD+IFR1+MS
16700.000	90.000	179.645	10316.000	59.597	0.000	57.529	-0.000	59.597	0.000	0.000	58.000	43.019	-11.283	MWD+IFR1+MS
16800.000	90.000	179.645	10316.000	60.299	0.000	58.101	-0.000	60.299	0.000	0.000	58.559	43.062	-10.967	MWD+IFR1+MS
16900.000	90.000	179.645	10316.000	61.003	0.000	58.679	-0.000	61.003	0.000	0.000	59.124	43.104	-10.668	MWD+IFR1+MS
17000.000	90.000	179.645	10316.000	61.708	0.000	59.260	-0.000	61.708	0.000	0.000	59.694	43.146	-10.384	MWD+IFR1+MS
17100.000	90.000	179.645	10316.000	62.416	0.000	59.846	-0.000	62.416	0.000	0.000	60.268	43.188	-10.115	MWD+IFR1+MS
17200.000	90.000	179.645	10316.000	63.125	0.000	60.435	-0.000	63.125	0.000	0.000	60.847	43.230	-9.859	MWD+IFR1+MS
17300.000	90.000	179.645	10316.000	63.836	0.000	61.029	-0.000	63.836	0.000	0.000	61.431	43.272	-9.616	MWD+IFR1+MS
17400.000	90.000	179.645	10316.000	64.549	0.000	61.626	-0.000	64.549	0.000	0.000	62.018	43.314	-9.385	MWD+IFR1+MS
17500.000	90.000	179.645	10316.000	65.264	0.000	62.227	-0.000	65.264	0.000	0.000	62.610	43.357	-9.164	MWD+IFR1+MS
17600.000	90.000	179.645	10316.000	65.980	0.000	62.831	-0.000	65.980	0.000	0.000	63.206	43.399	-8.954	MWD+IFR1+MS
17700.000	90.000	179.645	10316.000	66.697	0.000	63.439	-0.000	66.697	0.000	0.000	63.805	43.442	-8.753	MWD+IFR1+MS
17800.000	90.000	179.645	10316.000	67.417	0.000	64.051	-0.000	67.417	0.000	0.000	64.409	43.484	-8.561	MWD+IFR1+MS
17900.000	90.000	179.645	10316.000	68.137	0.000	64.665	-0.000	68.137	0.000	0.000	65.016	43.527	-8.377	MWD+IFR1+MS
18000.000	90.000	179.645	10316.000	68.859	0.000	65.283	-0.000	68.859	0.000	0.000	65.626	43.571	-8.201	MWD+IFR1+MS
18100.000	90.000	179.645	10316.000	69.582	0.000	65.904	-0.000	69.582	0.000	0.000	66.240	43.614	-8.032	MWD+IFR1+MS
18200.000	90.000	179.645	10316.000	70.307	0.000	66.528	-0.000	70.307	0.000	0.000	66.857	43.658	-7.870	MWD+IFR1+MS
18300.000	90.000	179.645	10316.000	71.033	0.000	67.155	-0.000	71.033	0.000	0.000	67.477	43.701	-7.715	MWD+IFR1+MS
18400.000	90.000	179.645	10316.000	71.760	0.000	67.785	-0.000	71.760	0.000	0.000	68.101	43.746	-7.566	MWD+IFR1+MS
18500.000	90.000	179.645	10316.000	72.489	0.000	68.417	-0.000	72.489	0.000	0.000	68.727	43.790	-7.423	MWD+IFR1+MS
18600.000	90.000	179.645	10316.000	73.218	0.000	69.053	-0.000	73.218	0.000	0.000	69.356	43.835	-7.285	MWD+IFR1+MS
18700.000	90.000	179.645	10316.000	73.949	0.000	69.690	-0.000	73.949	0.000	0.000	69.989	43.880	-7.152	MWD+IFR1+MS
18800.000	90.000	179.645	10316.000	74.681	0.000	70.331	-0.000	74.681	0.000	0.000	70.623	43.925	-7.024	MWD+IFR1+MS
18900.000	90.000	179.645	10316.000	75.413	0.000	70.974	-0.000	75.413	0.000	0.000	71.261	43.971	-6.901	MWD+IFR1+MS
19000.000	90.000	179.645	10316.000	76.147	0.000	71.619	-0.000	76.147	0.000	0.000	71.901	44.017	-6.782	MWD+IFR1+MS

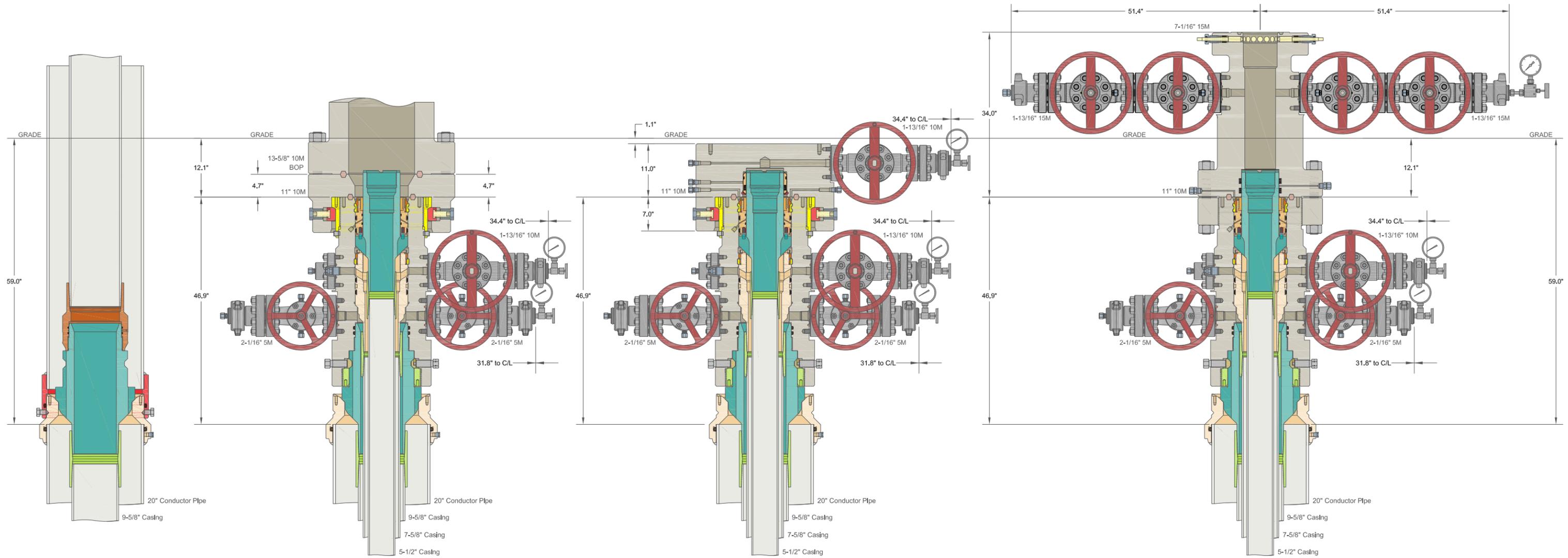
19100.000	90.000	179.645	10316.000	76.882	0.000	72.267	-0.000	76.882	0.000	0.000	72.544	44.063	-6.667	MWD+IFR1+MS
19200.000	90.000	179.645	10316.000	77.618	0.000	72.916	-0.000	77.618	0.000	0.000	73.189	44.110	-6.556	MWD+IFR1+MS
19300.000	90.000	179.645	10316.000	78.355	0.000	73.569	-0.000	78.355	0.000	0.000	73.836	44.157	-6.449	MWD+IFR1+MS
19400.000	90.000	179.645	10316.000	79.093	0.000	74.223	-0.000	79.093	0.000	0.000	74.486	44.204	-6.346	MWD+IFR1+MS
19500.000	90.000	179.645	10316.000	79.831	0.000	74.879	-0.000	79.831	0.000	0.000	75.138	44.252	-6.246	MWD+IFR1+MS
19600.000	90.000	179.645	10316.000	80.571	0.000	75.538	-0.000	80.571	0.000	0.000	75.792	44.300	-6.149	MWD+IFR1+MS
19700.000	90.000	179.645	10316.000	81.311	0.000	76.198	-0.000	81.311	0.000	0.000	76.449	44.349	-6.055	MWD+IFR1+MS
19800.000	90.000	179.645	10316.000	82.052	0.000	76.861	-0.000	82.052	0.000	0.000	77.107	44.397	-5.964	MWD+IFR1+MS
19900.000	90.000	179.645	10316.000	82.794	0.000	77.525	-0.000	82.794	0.000	0.000	77.768	44.447	-5.876	MWD+IFR1+MS
20000.000	90.000	179.645	10316.000	83.537	0.000	78.191	-0.000	83.537	0.000	0.000	78.430	44.496	-5.791	MWD+IFR1+MS
20100.000	90.000	179.645	10316.000	84.280	0.000	78.859	-0.000	84.280	0.000	0.000	79.095	44.546	-5.708	MWD+IFR1+MS
20200.000	90.000	179.645	10316.000	85.025	0.000	79.529	-0.000	85.025	0.000	0.000	79.761	44.596	-5.628	MWD+IFR1+MS
20300.000	90.000	179.645	10316.000	85.770	0.000	80.200	-0.000	85.770	0.000	0.000	80.429	44.647	-5.550	MWD+IFR1+MS
20400.000	90.000	179.645	10316.000	86.515	0.000	80.873	-0.000	86.515	0.000	0.000	81.098	44.698	-5.474	MWD+IFR1+MS
20500.000	90.000	179.645	10316.000	87.262	0.000	81.548	-0.000	87.262	0.000	0.000	81.770	44.750	-5.400	MWD+IFR1+MS
20600.000	90.000	179.645	10316.000	88.009	0.000	82.225	-0.000	88.009	0.000	0.000	82.443	44.801	-5.329	MWD+IFR1+MS
20700.000	90.000	179.645	10316.000	88.756	0.000	82.902	-0.000	88.756	0.000	0.000	83.118	44.854	-5.259	MWD+IFR1+MS
20800.000	90.000	179.645	10316.000	89.505	0.000	83.582	-0.000	89.505	0.000	0.000	83.794	44.906	-5.191	MWD+IFR1+MS
20900.000	90.000	179.645	10316.000	90.254	0.000	84.263	-0.000	90.254	0.000	0.000	84.472	44.959	-5.125	MWD+IFR1+MS
21000.000	90.000	179.645	10316.000	91.003	0.000	84.945	-0.000	91.003	0.000	0.000	85.152	45.013	-5.061	MWD+IFR1+MS
21100.000	90.000	179.645	10316.000	91.753	0.000	85.629	-0.000	91.753	0.000	0.000	85.833	45.067	-4.999	MWD+IFR1+MS
21200.000	90.000	179.645	10316.000	92.504	0.000	86.314	-0.000	92.504	0.000	0.000	86.515	45.121	-4.938	MWD+IFR1+MS
21300.000	90.000	179.645	10316.000	93.255	0.000	87.000	-0.000	93.255	0.000	0.000	87.199	45.175	-4.879	MWD+IFR1+MS
21310.792	90.000	179.645	10316.000	93.336	0.000	87.074	-0.000	93.336	0.000	0.000	87.273	45.181	-4.872	MWD+IFR1+MS
21360.775	90.000	179.645	10316.000	93.711	0.000	87.416	-0.000	93.711	0.000	0.000	87.613	45.209	-4.844	MWD+IFR1+MS

Plan Targets

511H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 2	10947.18	440423.10	667136.40	6764.00	RECTANGLE
FTP 9	10947.18	440423.10	667136.40	6764.00	RECTANGLE
LTP 2	21310.79	430059.70	667200.60	6764.00	RECTANGLE
LTP 9	21310.79	430059.70	667200.60	6764.00	RECTANGLE

BHL 2	21360.80	430009.70	667200.90	6764.00 RECTANGLE
BHL 9	21360.80	430009.70	667200.90	6764.00 RECTANGLE



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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
		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 298270

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 298270
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/29/2023