

Well Name: POKER LAKE UNIT 30-19 BS	Well Location: T25S / R31E / SEC 30 / NENW /	County or Parish/State:
Well Number: 154H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC061634A	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number: 3001553439	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2759064

Type of Submission: Notice of Intent **Type of Action:** APD Change

Date Sundry Submitted: 11/01/2023 **Time Sundry Submitted:** 10:34

Date proposed operation will begin: 11/22/2023

Procedure Description: ** Surface hole Change, First and Last Take Point Changes, Bottomhole Location Change, Drilling Plan Change, Casing/Cement Change XTO Permian Operating, LCC. requests permission to make the following changes to the original APD: No Additional Surface Disturbance SHL: fr/532'FNL & 2305'FWL to 533'FNL & 2648'FEL FTP: fr/2310'FNL & 2360'FWL to 2115'FNL & 1650'FWL LTP: fr/100'FNL & 2360'FWL to 550'FSL & 1650'FWL BHL: fr/50'FNL & 2360'FWL to 640'FSL & 1650'FWL, Section 18-T25S-R31E Additionally, XTO Permian Operating, LLC. respectfully requests permission to upsize the casing design. The surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the design change in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program MBS Directional Plan

NOI Attachments

Procedure Description

PLU_30_19_BS_154H_Sundry_Attachments_20231101103417.pdf

Well Name: POKER LAKE UNIT 30-19 BS	Well Location: T25S / R31E / SEC 30 / NENW /	County or Parish/State:
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Conditions of Approval

Additional

Sec_30_25S_31E_NMP_Sundry_2759064_Poker_Lake_Unit_30_19_BS_154H_COAs_20231116134426.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: CASSIE EVANS	Signed on: NOV 01, 2023 10:34 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 Holiday Hill Road, Bldg 5	
City: Midland	State: TX
Phone: (432) 218-3671	
Email address: CASSIE.EVANS@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: 11/17/2023
Signature: Chris Walls	

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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. **NMLC061634A**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **XTO PERMIAN OPERATING LLC**3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,** 3b. Phone No. (include area code)
(432) 683-22774. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 30/T25S/R31E/NMP7. If Unit of CA/Agreement, Name and/or No.
NMNM71016X8. Well Name and No. **POKER LAKE UNIT 30-19 BS/154H**9. API Well No. **3001553439**10. Field and Pool or Exploratory Area
PURPLE SAGE/BONE SPRING11. 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 recompleat 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 recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

**** Surface hole Change, First and Last Take Point Changes, Bottomhole Location Change, Drilling Plan Change, Casing/Cement Change**

XTO Permian Operating, LCC. requests permission to make the following changes to the original APD:

No Additional Surface Disturbance

SHL: fr/532FNL & 2305FWL to 533FNL & 2648FEL

FTP: fr/2310FNL & 2360FWL to 2115FNL & 1650FWL

LTP: fr/100FNL & 2360FWL to 550FSL & 1650FWL

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
CASSIE EVANS / Ph: (432) 218-3671

Title **Regulatory Analyst**

(Electronic Submission)
Signature

Date **11/01/2023**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title **Petroleum Engineer**

Date **11/17/2023**

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

BHL: fr/50FNL & 2360FWL to 640FSL & 1650FWL, Section 18-T25S-R31E

Additionally, XTO Permian Operating, LLC. respectfully requests permission to upsize the casing design. The surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the design change in these strings, the wellhead configuration has also changed based on the attached drilling program.

Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

MBS

Directional Plan

Location of Well

0. SHL: NENW / 532 FNL / 2305 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.107069 / LONG: -103.818586 (TVD: 0 feet, MD: 0 feet)

PPP: SENW / 2310 FNL / 2360 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.102184 / LONG: -103.818399 (TVD: 11749 feet, MD: 12031 feet)

BHL: NENW / 50 FNL / 2360 FWL / TWSP: 25S / RANGE: 31E / SECTION: 19 / LAT: 32.123014 / LONG: -103.818332 (TVD: 12460 feet, MD: 20647 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 30-19 BS 154H
LOCATION:	Sec 30-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2759064** on 11/16/2023. 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 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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 1,148 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 6790'**
 - 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 7-5/8" X 5-1/2" 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** into previous casing string. Operator shall provide method of verification. Additional tieback requirements due to not meeting 0.422" clearance requirement per 43 CFR 3172. **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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

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.

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

☐ AMENDED REPORT

TIM C. PAPPAS 21209
Certificate Number

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

XTO Energy Inc.

PLU 30-19 BS 154H

Projected TD: 20981.76' MD / 11861' TVD

SHL: 533' FNL & 2648' FEL , Section 30, T25S, R31E

BHL: 640' FSL & 1650' FWL , Section 18, T25S, 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	1048'	Water
Top of Salt	1402'	Water
Base of Salt	3990'	Water
Delaware	4182'	Water
Brushy Canyon	6747'	Water/Oil/Gas
Bone Spring	8089'	Water
1st Bone Spring	9015'	Water/Oil/Gas
2nd Bone Spring	9677'	Water/Oil/Gas
3rd Bone Spring	11027'	Water/Oil/Gas
Wolfcamp	11413'	Water/Oil/Gas
Wolfcamp X	11441'	Water/Oil/Gas
Wolfcamp Y	11511'	Water/Oil/Gas
Wolfcamp A	11536'	Water/Oil/Gas
Target/Land Curve	11861'	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 @ 1148' (254' 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 11585.51' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20981.76 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 11285.51 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1148'	9.625	40	J-55	BTC	New	1.10	5.48	13.72
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.85	2.52	1.62
8.75	4000' – 11585.51'	7.625	29.7	HC L-80	Flush Joint	New	1.35	1.59	1.80
6.75	0' – 11485.51'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.49	2.04
6.75	11485.51' - 20981.76'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.44	2.04

- 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 +/- 1148'

Lead: 280 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 +/- 11585.51'

1st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 450 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6747

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: 760 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 (6747') 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 +/- 20981.76'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 11285.51 feet

Tail: 660 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 11785.51 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 10M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 5100 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, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M 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' - 1148'	12.25	FW/Native	8.4-8.9	35-40	NC
1148' - 11585.51'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
11585.51' - 20981.76'	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 180 to 200 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 7710 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - POKER LAKE UNIT 30-19 BS 154H

Measured Depth: 20981.76 ft

TVD RKB: 11853.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 403012.60 ft

Easting: 659902.90 ft

RKB: 3429.00 ft

Ground Level: 3389.00 ft

North Reference: Grid

Convergence Angle: 0.27 Deg

Site: 30-19

Slot: POKER LAKE UNIT 30-19 BS 154H

Plan Sections

POKER LAKE UNIT 30-19 BS 154H

Measured	TVD			Build	Turn	Dogleg		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1108.00	0.00	0.00	0.00	0.00	0.00
2740.77	32.82	203.74	2660.53	-418.47	-184.06	2.00	0.00	2.00
5699.94	32.82	203.74	5147.47	-1886.42	-829.73	0.00	0.00	0.00
7340.71	0.00	0.00	6700.00	-2304.90	-1013.79	-2.00	0.00	2.00
11785.51	0.00	0.00	11144.80	-2304.90	-1013.79	0.00	0.00	0.00
12910.51	90.00	359.90	11861.00	-1588.70	-1015.00	8.00	0.00	8.00 FTP 10
20892.62	90.00	359.90	11861.00	6393.40	-1028.50	0.00	0.00	0.00 LTP 10
20981.76	90.00	359.90	11861.00	6482.54	-1028.65	0.00	0.00	0.00 BHL 10

Position Uncertainty

POKER LAKE UNIT 30-19 BS 154H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.582	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	203.742	1199.980	5.041	-0.000	4.250	0.000	2.691	0.000	0.000	5.094	4.189	128.110	MWD+IFR1+MS
1300.000	4.000	203.742	1299.838	5.802	-0.000	4.609	0.000	2.752	0.000	0.000	5.884	4.516	127.879	MWD+IFR1+MS
1400.000	6.000	203.742	1399.452	6.487	-0.000	4.967	0.000	2.817	0.000	0.000	6.597	4.847	127.780	MWD+IFR1+MS
1500.000	8.000	203.742	1498.702	7.116	-0.000	5.327	0.000	2.890	0.000	0.000	7.255	5.184	127.735	MWD+IFR1+MS
1600.000	10.000	203.742	1597.465	7.703	-0.000	5.689	0.000	2.973	0.000	0.000	7.872	5.526	127.725	MWD+IFR1+MS
1700.000	12.000	203.742	1695.623	8.255	-0.000	6.055	0.000	3.068	0.000	0.000	8.455	5.874	127.745	MWD+IFR1+MS
1800.000	14.000	203.742	1793.055	8.778	-0.000	6.426	0.000	3.176	0.000	0.000	9.012	6.229	127.792	MWD+IFR1+MS
1900.000	16.000	203.742	1889.643	9.277	-0.000	6.803	0.000	3.299	0.000	0.000	9.546	6.591	127.867	MWD+IFR1+MS
2000.000	18.000	203.742	1985.268	9.754	-0.000	7.188	0.000	3.439	0.000	0.000	10.062	6.963	127.971	MWD+IFR1+MS
2100.000	20.000	203.742	2079.816	10.213	-0.000	7.581	0.000	3.597	0.000	0.000	10.560	7.344	128.109	MWD+IFR1+MS
2200.000	22.000	203.742	2173.169	10.655	-0.000	7.985	0.000	3.774	0.000	0.000	11.045	7.735	128.284	MWD+IFR1+MS
2300.000	24.000	203.742	2265.215	11.083	-0.000	8.400	0.000	3.970	0.000	0.000	11.517	8.139	128.500	MWD+IFR1+MS
2400.000	26.000	203.742	2355.841	11.499	-0.000	8.827	0.000	4.188	0.000	0.000	11.978	8.555	128.766	MWD+IFR1+MS
2500.000	28.000	203.742	2444.937	11.903	-0.000	9.268	0.000	4.427	0.000	0.000	12.428	8.985	129.089	MWD+IFR1+MS
2600.000	30.000	203.742	2532.394	12.298	-0.000	9.724	0.000	4.687	0.000	0.000	12.870	9.430	129.478	MWD+IFR1+MS
2700.000	32.000	203.742	2618.107	12.683	-0.000	10.196	0.000	4.971	0.000	0.000	13.304	9.889	129.949	MWD+IFR1+MS
2740.773	32.815	203.742	2652.529	12.769	-0.000	10.386	0.000	5.038	0.000	0.000	13.429	10.080	130.141	MWD+IFR1+MS
2800.000	32.815	203.742	2702.305	12.962	-0.000	10.667	0.000	5.138	0.000	0.000	13.595	10.361	130.500	MWD+IFR1+MS
2900.000	32.815	203.742	2786.347	13.297	-0.000	11.160	0.000	5.322	0.000	0.000	13.883	10.849	131.318	MWD+IFR1+MS

3000.000	32.815	203.742	2870.389	13.650	-0.000	11.668	0.000	5.520	0.000	0.000	14.188	11.347	132.351	MWD+IFR1+MS
3100.000	32.815	203.742	2954.431	14.012	-0.000	12.184	0.000	5.726	0.000	0.000	14.503	11.850	133.541	MWD+IFR1+MS
3200.000	32.815	203.742	3038.473	14.385	-0.000	12.706	0.000	5.940	0.000	0.000	14.828	12.356	134.917	MWD+IFR1+MS
3300.000	32.815	203.742	3122.515	14.767	-0.000	13.234	0.000	6.162	0.000	0.000	15.165	12.865	-43.492	MWD+IFR1+MS
3400.000	32.815	203.742	3206.557	15.158	-0.000	13.768	0.000	6.390	0.000	0.000	15.512	13.374	-41.653	MWD+IFR1+MS
3500.000	32.815	203.742	3290.599	15.556	-0.000	14.306	0.000	6.623	0.000	0.000	15.871	13.882	-39.530	MWD+IFR1+MS
3600.000	32.815	203.742	3374.641	15.962	-0.000	14.849	0.000	6.862	0.000	0.000	16.242	14.387	-37.090	MWD+IFR1+MS
3700.000	32.815	203.742	3458.683	16.375	-0.000	15.395	0.000	7.106	0.000	0.000	16.626	14.888	-34.311	MWD+IFR1+MS
3800.000	32.815	203.742	3542.725	16.794	-0.000	15.944	0.000	7.354	0.000	0.000	17.024	15.384	-31.188	MWD+IFR1+MS
3900.000	32.815	203.742	3626.767	17.218	-0.000	16.497	0.000	7.606	0.000	0.000	17.439	15.871	-27.750	MWD+IFR1+MS
4000.000	32.815	203.742	3710.809	17.648	-0.000	17.052	0.000	7.862	0.000	0.000	17.869	16.349	-24.069	MWD+IFR1+MS
4100.000	32.815	203.742	3794.851	18.083	-0.000	17.609	0.000	8.121	0.000	0.000	18.317	16.817	-20.255	MWD+IFR1+MS
4200.000	32.815	203.742	3878.894	18.523	-0.000	18.169	0.000	8.383	0.000	0.000	18.782	17.274	-16.448	MWD+IFR1+MS
4300.000	32.815	203.742	3962.936	18.967	-0.000	18.731	0.000	8.648	0.000	0.000	19.263	17.720	-12.782	MWD+IFR1+MS
4400.000	32.815	203.742	4046.978	19.415	-0.000	19.294	0.000	8.915	0.000	0.000	19.758	18.157	-9.366	MWD+IFR1+MS
4500.000	32.815	203.742	4131.020	19.867	-0.000	19.860	0.000	9.185	0.000	0.000	20.267	18.586	-6.264	MWD+IFR1+MS
4600.000	32.815	203.742	4215.062	20.322	-0.000	20.427	0.000	9.457	0.000	0.000	20.786	19.009	-3.501	MWD+IFR1+MS
4700.000	32.815	203.742	4299.104	20.780	-0.000	20.995	0.000	9.731	0.000	0.000	21.315	19.427	-1.071	MWD+IFR1+MS
4800.000	32.815	203.742	4383.146	21.242	-0.000	21.565	0.000	10.007	0.000	0.000	21.852	19.841	1.052	MWD+IFR1+MS
4900.000	32.815	203.742	4467.188	21.706	-0.000	22.135	0.000	10.285	0.000	0.000	22.395	20.252	2.902	MWD+IFR1+MS
5000.000	32.815	203.742	4551.230	22.174	-0.000	22.707	0.000	10.564	0.000	0.000	22.944	20.662	4.513	MWD+IFR1+MS
5100.000	32.815	203.742	4635.272	22.643	-0.000	23.280	0.000	10.845	0.000	0.000	23.497	21.071	5.919	MWD+IFR1+MS
5200.000	32.815	203.742	4719.314	23.115	-0.000	23.854	0.000	11.128	0.000	0.000	24.054	21.479	7.151	MWD+IFR1+MS
5300.000	32.815	203.742	4803.356	23.590	-0.000	24.429	0.000	11.412	0.000	0.000	24.614	21.886	8.234	MWD+IFR1+MS
5400.000	32.815	203.742	4887.398	24.066	-0.000	25.005	0.000	11.698	0.000	0.000	25.177	22.295	9.190	MWD+IFR1+MS
5500.000	32.815	203.742	4971.440	24.544	-0.000	25.581	0.000	11.984	0.000	0.000	25.742	22.703	10.038	MWD+IFR1+MS
5600.000	32.815	203.742	5055.482	25.024	-0.000	26.158	0.000	12.273	0.000	0.000	26.310	23.112	10.794	MWD+IFR1+MS
5699.936	32.815	203.742	5139.471	25.506	-0.000	26.736	0.000	12.562	0.000	0.000	26.878	23.521	11.470	MWD+IFR1+MS
5800.000	30.814	203.742	5224.496	26.126	-0.000	27.306	0.000	12.865	0.000	0.000	27.446	23.953	11.839	MWD+IFR1+MS
5900.000	28.814	203.742	5311.256	26.767	-0.000	27.859	0.000	13.183	0.000	0.000	28.001	24.427	11.852	MWD+IFR1+MS
6000.000	26.814	203.742	5399.698	27.361	-0.000	28.394	0.000	13.476	0.000	0.000	28.540	24.900	11.807	MWD+IFR1+MS
6100.000	24.814	203.742	5489.714	27.911	-0.000	28.910	0.000	13.746	0.000	0.000	29.061	25.371	11.710	MWD+IFR1+MS
6200.000	22.814	203.742	5581.196	28.413	-0.000	29.408	0.000	13.992	0.000	0.000	29.563	25.838	11.567	MWD+IFR1+MS

6300.000	20.814	203.742	5674.030	28.868	-0.000	29.886	0.000	14.218	0.000	0.000	30.047	26.300	11.382	MWD+IFR1+MS
6400.000	18.814	203.742	5768.105	29.276	-0.000	30.345	0.000	14.423	0.000	0.000	30.513	26.754	11.156	MWD+IFR1+MS
6500.000	16.814	203.742	5863.306	29.636	-0.000	30.783	0.000	14.610	0.000	0.000	30.959	27.200	10.893	MWD+IFR1+MS
6600.000	14.814	203.742	5959.516	29.947	-0.000	31.202	0.000	14.780	0.000	0.000	31.385	27.636	10.594	MWD+IFR1+MS
6700.000	12.814	203.742	6056.619	30.210	-0.000	31.601	0.000	14.934	0.000	0.000	31.793	28.061	10.262	MWD+IFR1+MS
6800.000	10.814	203.742	6154.495	30.424	-0.000	31.981	0.000	15.074	0.000	0.000	32.181	28.475	9.897	MWD+IFR1+MS
6900.000	8.814	203.742	6253.027	30.590	-0.000	32.340	0.000	15.201	0.000	0.000	32.551	28.875	9.501	MWD+IFR1+MS
7000.000	6.814	203.742	6352.093	30.707	-0.000	32.680	0.000	15.317	0.000	0.000	32.902	29.261	9.076	MWD+IFR1+MS
7100.000	4.814	203.742	6451.574	30.777	-0.000	33.001	0.000	15.423	0.000	0.000	33.234	29.632	8.623	MWD+IFR1+MS
7200.000	2.814	203.742	6551.347	30.800	-0.000	33.303	0.000	15.521	0.000	0.000	33.548	29.988	8.143	MWD+IFR1+MS
7300.000	0.814	203.742	6651.292	30.776	-0.000	33.587	0.000	15.613	0.000	0.000	33.844	30.329	7.638	MWD+IFR1+MS
7340.709	0.000	0.000	6692.000	30.498	0.000	33.884	0.000	15.649	0.000	0.000	33.943	30.432	7.676	MWD+IFR1+MS
7400.000	0.000	0.000	6751.291	30.645	0.000	34.013	0.000	15.702	0.000	0.000	34.073	30.579	7.736	MWD+IFR1+MS
7500.000	0.000	0.000	6851.291	30.895	0.000	34.236	0.000	15.792	0.000	0.000	34.297	30.828	7.802	MWD+IFR1+MS
7600.000	0.000	0.000	6951.291	31.149	0.000	34.463	0.000	15.885	0.000	0.000	34.524	31.082	7.836	MWD+IFR1+MS
7700.000	0.000	0.000	7051.291	31.405	0.000	34.692	0.000	15.980	0.000	0.000	34.753	31.338	7.870	MWD+IFR1+MS
7800.000	0.000	0.000	7151.291	31.663	0.000	34.923	0.000	16.079	0.000	0.000	34.984	31.596	7.904	MWD+IFR1+MS
7900.000	0.000	0.000	7251.291	31.923	0.000	35.156	0.000	16.180	0.000	0.000	35.217	31.856	7.938	MWD+IFR1+MS
8000.000	0.000	0.000	7351.291	32.185	0.000	35.392	0.000	16.284	0.000	0.000	35.453	32.118	7.972	MWD+IFR1+MS
8100.000	0.000	0.000	7451.291	32.449	0.000	35.629	0.000	16.391	0.000	0.000	35.690	32.381	8.007	MWD+IFR1+MS
8200.000	0.000	0.000	7551.291	32.714	0.000	35.869	0.000	16.501	0.000	0.000	35.930	32.647	8.041	MWD+IFR1+MS
8300.000	0.000	0.000	7651.291	32.982	0.000	36.110	0.000	16.614	0.000	0.000	36.172	32.914	8.075	MWD+IFR1+MS
8400.000	0.000	0.000	7751.291	33.251	0.000	36.353	0.000	16.730	0.000	0.000	36.415	33.183	8.109	MWD+IFR1+MS
8500.000	0.000	0.000	7851.291	33.521	0.000	36.599	0.000	16.850	0.000	0.000	36.660	33.454	8.143	MWD+IFR1+MS
8600.000	0.000	0.000	7951.291	33.794	0.000	36.846	0.000	16.972	0.000	0.000	36.908	33.726	8.178	MWD+IFR1+MS
8700.000	0.000	0.000	8051.291	34.067	0.000	37.095	0.000	17.098	0.000	0.000	37.157	34.000	8.212	MWD+IFR1+MS
8800.000	0.000	0.000	8151.291	34.343	0.000	37.346	0.000	17.226	0.000	0.000	37.407	34.276	8.246	MWD+IFR1+MS
8900.000	0.000	0.000	8251.291	34.620	0.000	37.598	0.000	17.359	0.000	0.000	37.660	34.553	8.281	MWD+IFR1+MS
9000.000	0.000	0.000	8351.291	34.898	0.000	37.852	0.000	17.494	0.000	0.000	37.914	34.831	8.315	MWD+IFR1+MS
9100.000	0.000	0.000	8451.291	35.178	0.000	38.108	0.000	17.633	0.000	0.000	38.170	35.111	8.350	MWD+IFR1+MS
9200.000	0.000	0.000	8551.291	35.460	0.000	38.366	0.000	17.775	0.000	0.000	38.428	35.392	8.384	MWD+IFR1+MS
9300.000	0.000	0.000	8651.291	35.742	0.000	38.625	0.000	17.920	0.000	0.000	38.687	35.675	8.419	MWD+IFR1+MS
9400.000	0.000	0.000	8751.291	36.026	0.000	38.885	0.000	18.069	0.000	0.000	38.948	35.959	8.453	MWD+IFR1+MS

9500.000	0.000	0.000	8851.291	36.312	0.000	39.148	0.000	18.221	0.000	0.000	39.210	36.245	8.488	MWD+IFR1+MS
9600.000	0.000	0.000	8951.291	36.598	0.000	39.411	0.000	18.377	0.000	0.000	39.474	36.531	8.523	MWD+IFR1+MS
9700.000	0.000	0.000	9051.291	36.886	0.000	39.677	0.000	18.536	0.000	0.000	39.739	36.819	8.557	MWD+IFR1+MS
9800.000	0.000	0.000	9151.291	37.175	0.000	39.943	0.000	18.699	0.000	0.000	40.006	37.108	8.592	MWD+IFR1+MS
9900.000	0.000	0.000	9251.291	37.466	0.000	40.212	0.000	18.866	0.000	0.000	40.274	37.399	8.627	MWD+IFR1+MS
10000.000	0.000	0.000	9351.291	37.757	0.000	40.481	0.000	19.035	0.000	0.000	40.544	37.690	8.662	MWD+IFR1+MS
10100.000	0.000	0.000	9451.291	38.050	0.000	40.752	0.000	19.209	0.000	0.000	40.814	37.983	8.696	MWD+IFR1+MS
10200.000	0.000	0.000	9551.291	38.344	0.000	41.024	0.000	19.386	0.000	0.000	41.087	38.277	8.731	MWD+IFR1+MS
10300.000	0.000	0.000	9651.291	38.639	0.000	41.298	0.000	19.567	0.000	0.000	41.360	38.571	8.766	MWD+IFR1+MS
10400.000	0.000	0.000	9751.291	38.934	0.000	41.573	0.000	19.751	0.000	0.000	41.635	38.867	8.801	MWD+IFR1+MS
10500.000	0.000	0.000	9851.291	39.231	0.000	41.849	0.000	19.939	0.000	0.000	41.911	39.164	8.836	MWD+IFR1+MS
10600.000	0.000	0.000	9951.291	39.529	0.000	42.126	0.000	20.131	0.000	0.000	42.189	39.462	8.871	MWD+IFR1+MS
10700.000	0.000	0.000	10051.291	39.828	0.000	42.405	0.000	20.326	0.000	0.000	42.467	39.761	8.906	MWD+IFR1+MS
10800.000	0.000	0.000	10151.291	40.128	0.000	42.684	0.000	20.526	0.000	0.000	42.747	40.061	8.941	MWD+IFR1+MS
10900.000	0.000	0.000	10251.291	40.429	0.000	42.965	0.000	20.728	0.000	0.000	43.028	40.362	8.976	MWD+IFR1+MS
11000.000	0.000	0.000	10351.291	40.731	0.000	43.247	0.000	20.935	0.000	0.000	43.310	40.664	9.011	MWD+IFR1+MS
11100.000	0.000	0.000	10451.291	41.034	0.000	43.531	0.000	21.145	0.000	0.000	43.594	40.967	9.046	MWD+IFR1+MS
11200.000	0.000	0.000	10551.291	41.338	0.000	43.815	0.000	21.359	0.000	0.000	43.878	41.271	9.081	MWD+IFR1+MS
11300.000	0.000	0.000	10651.291	41.642	0.000	44.100	0.000	21.577	0.000	0.000	44.163	41.575	9.117	MWD+IFR1+MS
11400.000	0.000	0.000	10751.291	41.947	0.000	44.387	0.000	21.798	0.000	0.000	44.450	41.880	9.152	MWD+IFR1+MS
11500.000	0.000	0.000	10851.291	42.254	0.000	44.674	0.000	22.023	0.000	0.000	44.737	42.187	9.187	MWD+IFR1+MS
11600.000	0.000	0.000	10951.291	42.561	0.000	44.963	0.000	22.252	0.000	0.000	45.026	42.494	9.222	MWD+IFR1+MS
11700.000	0.000	0.000	11051.291	42.868	0.000	45.252	0.000	22.485	0.000	0.000	45.316	42.802	9.258	MWD+IFR1+MS
11785.512	0.000	0.000	11136.803	43.131	0.000	45.500	0.000	22.687	0.000	0.000	45.563	43.064	9.308	MWD+IFR1+MS
11800.000	1.159	359.903	11151.290	42.987	0.000	45.540	0.000	22.721	0.000	0.000	45.605	43.108	9.326	MWD+IFR1+MS
11900.000	9.159	359.903	11250.804	41.940	0.000	45.813	0.000	22.966	0.000	0.000	45.883	43.699	10.304	MWD+IFR1+MS
12000.000	17.159	359.903	11348.099	41.012	0.000	46.064	0.000	23.289	0.000	0.000	46.154	44.828	15.089	MWD+IFR1+MS
12100.000	25.159	359.903	11441.281	39.619	0.000	46.289	0.000	23.753	0.000	0.000	46.448	45.756	28.599	MWD+IFR1+MS
12200.000	33.159	359.903	11528.537	37.896	0.000	46.486	0.000	24.409	0.000	0.000	46.900	46.328	58.289	MWD+IFR1+MS
12300.000	41.159	359.903	11608.169	36.016	0.000	46.655	0.000	25.283	0.000	0.000	47.457	46.591	74.251	MWD+IFR1+MS
12400.000	49.159	359.903	11678.626	34.194	0.000	46.796	0.000	26.377	0.000	0.000	47.908	46.760	79.738	MWD+IFR1+MS
12500.000	57.159	359.903	11738.537	32.682	0.000	46.911	0.000	27.670	0.000	0.000	48.216	46.887	82.166	MWD+IFR1+MS
12600.000	65.159	359.903	11786.735	31.737	0.000	47.000	0.000	29.124	0.000	0.000	48.394	46.982	83.464	MWD+IFR1+MS

12700.000	73.159	359.903	11822.284	31.574	0.000	47.064	0.000	30.687	0.000	0.000	48.470	47.050	84.286	MWD+IFR1+MS
12800.000	81.159	359.903	11844.491	32.300	0.000	47.104	0.000	32.304	0.000	0.000	48.480	47.093	84.949	MWD+IFR1+MS
12900.000	89.159	359.903	11852.923	33.877	0.000	47.120	0.000	33.920	0.000	0.000	48.468	47.112	85.653	MWD+IFR1+MS
12910.512	90.000	359.903	11853.000	33.957	0.000	47.119	0.000	33.957	0.000	0.000	48.467	47.112	85.738	MWD+IFR1+MS
13000.000	90.000	359.903	11853.000	34.257	0.000	47.124	0.000	34.257	0.000	0.000	48.462	47.119	86.440	MWD+IFR1+MS
13100.000	90.000	359.903	11853.000	34.603	0.000	47.147	0.000	34.603	0.000	0.000	48.457	47.144	87.203	MWD+IFR1+MS
13200.000	90.000	359.903	11853.000	34.964	0.000	47.188	0.000	34.964	0.000	0.000	48.453	47.186	87.977	MWD+IFR1+MS
13300.000	90.000	359.903	11853.000	35.338	0.000	47.245	0.000	35.338	0.000	0.000	48.451	47.244	88.794	MWD+IFR1+MS
13400.000	90.000	359.903	11853.000	35.726	0.000	47.318	0.000	35.726	0.000	0.000	48.449	47.318	89.692	MWD+IFR1+MS
13500.000	90.000	359.903	11853.000	36.127	0.000	47.408	0.000	36.127	0.000	0.000	48.449	47.407	90.729	MWD+IFR1+MS
13600.000	90.000	359.903	11853.000	36.540	0.000	47.513	0.000	36.540	0.000	0.000	48.450	47.512	91.990	MWD+IFR1+MS
13700.000	90.000	359.903	11853.000	36.965	0.000	47.635	0.000	36.965	0.000	0.000	48.453	47.632	93.626	MWD+IFR1+MS
13800.000	90.000	359.903	11853.000	37.402	0.000	47.773	0.000	37.402	0.000	0.000	48.458	47.765	95.919	MWD+IFR1+MS
13900.000	90.000	359.903	11853.000	37.850	0.000	47.926	0.000	37.850	0.000	0.000	48.467	47.911	99.462	MWD+IFR1+MS
14000.000	90.000	359.903	11853.000	38.308	0.000	48.096	0.000	38.308	0.000	0.000	48.486	48.064	105.648	MWD+IFR1+MS
14100.000	90.000	359.903	11853.000	38.778	0.000	48.280	0.000	38.778	0.000	0.000	48.525	48.212	117.614	MWD+IFR1+MS
14200.000	90.000	359.903	11853.000	39.257	0.000	48.480	0.000	39.257	0.000	0.000	48.618	48.323	-43.273	MWD+IFR1+MS
14300.000	90.000	359.903	11853.000	39.746	0.000	48.695	0.000	39.746	0.000	0.000	48.782	48.378	-27.762	MWD+IFR1+MS
14400.000	90.000	359.903	11853.000	40.245	0.000	48.925	0.000	40.245	0.000	0.000	48.990	48.405	-19.622	MWD+IFR1+MS
14500.000	90.000	359.903	11853.000	40.752	0.000	49.170	0.000	40.752	0.000	0.000	49.224	48.421	-15.248	MWD+IFR1+MS
14600.000	90.000	359.903	11853.000	41.268	0.000	49.429	0.000	41.268	0.000	0.000	49.477	48.432	-12.605	MWD+IFR1+MS
14700.000	90.000	359.903	11853.000	41.793	0.000	49.702	0.000	41.793	0.000	0.000	49.747	48.443	-10.846	MWD+IFR1+MS
14800.000	90.000	359.903	11853.000	42.325	0.000	49.990	0.000	42.325	0.000	0.000	50.032	48.452	-9.588	MWD+IFR1+MS
14900.000	90.000	359.903	11853.000	42.866	0.000	50.291	0.000	42.866	0.000	0.000	50.332	48.462	-8.641	MWD+IFR1+MS
15000.000	90.000	359.903	11853.000	43.413	0.000	50.606	0.000	43.413	0.000	0.000	50.645	48.471	-7.899	MWD+IFR1+MS
15100.000	90.000	359.903	11853.000	43.968	0.000	50.934	0.000	43.968	0.000	0.000	50.972	48.481	-7.299	MWD+IFR1+MS
15200.000	90.000	359.903	11853.000	44.530	0.000	51.275	0.000	44.530	0.000	0.000	51.312	48.491	-6.802	MWD+IFR1+MS
15300.000	90.000	359.903	11853.000	45.099	0.000	51.629	0.000	45.099	0.000	0.000	51.666	48.502	-6.382	MWD+IFR1+MS
15400.000	90.000	359.903	11853.000	45.674	0.000	51.995	0.000	45.674	0.000	0.000	52.031	48.513	-6.022	MWD+IFR1+MS
15500.000	90.000	359.903	11853.000	46.255	0.000	52.374	0.000	46.255	0.000	0.000	52.410	48.525	-5.708	MWD+IFR1+MS
15600.000	90.000	359.903	11853.000	46.842	0.000	52.765	0.000	46.842	0.000	0.000	52.800	48.537	-5.432	MWD+IFR1+MS
15700.000	90.000	359.903	11853.000	47.435	0.000	53.167	0.000	47.435	0.000	0.000	53.202	48.549	-5.187	MWD+IFR1+MS
15800.000	90.000	359.903	11853.000	48.033	0.000	53.581	0.000	48.033	0.000	0.000	53.615	48.563	-4.967	MWD+IFR1+MS

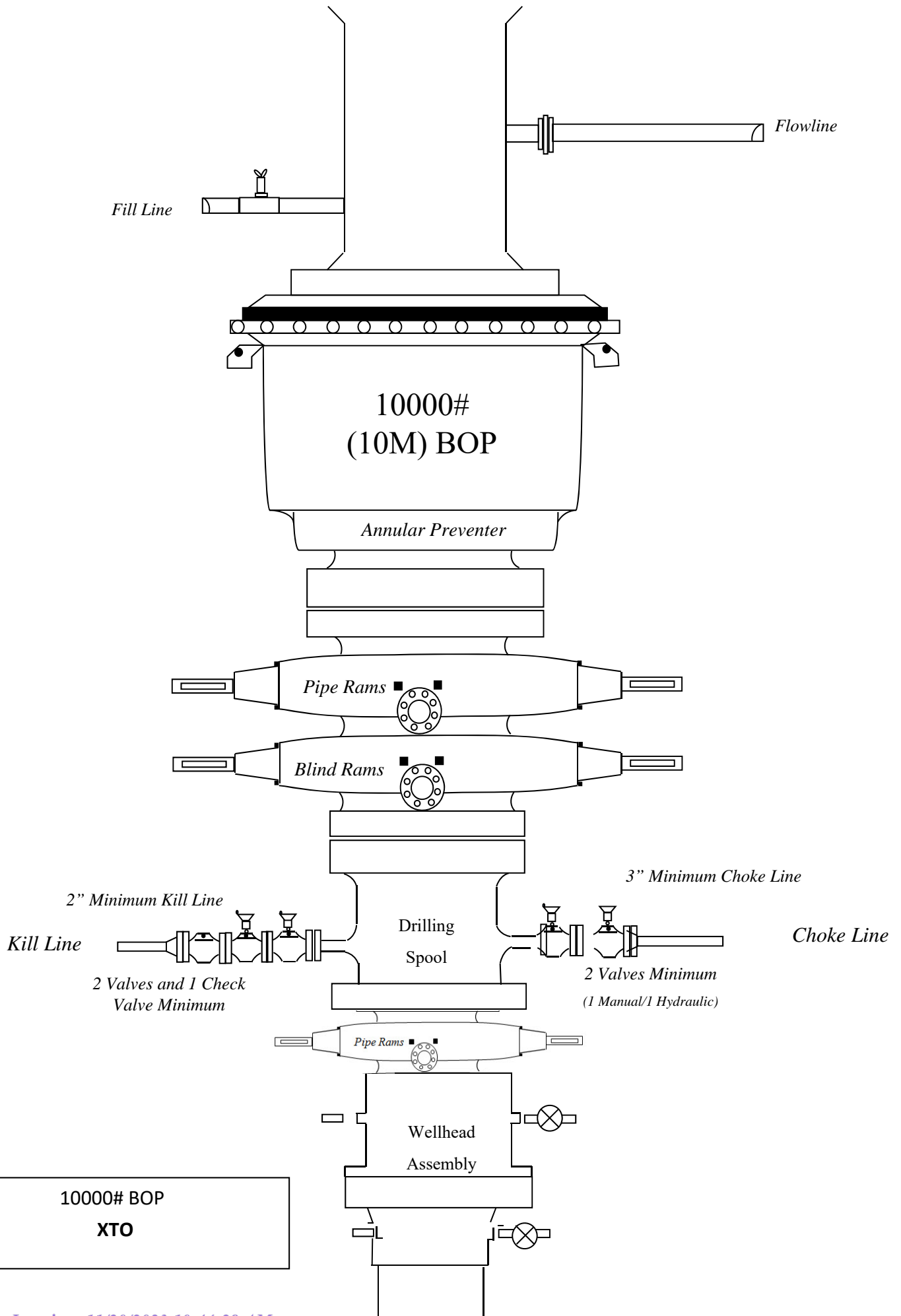
15900.000	90.000	359.903	11853.000	48.637	0.000	54.006	0.000	48.637	0.000	0.000	54.040	48.577	-4.768	MWD+IFR1+MS
16000.000	90.000	359.903	11853.000	49.245	0.000	54.442	0.000	49.245	0.000	0.000	54.476	48.591	-4.587	MWD+IFR1+MS
16100.000	90.000	359.903	11853.000	49.859	0.000	54.888	0.000	49.859	0.000	0.000	54.922	48.606	-4.422	MWD+IFR1+MS
16200.000	90.000	359.903	11853.000	50.477	0.000	55.345	0.000	50.477	0.000	0.000	55.379	48.621	-4.271	MWD+IFR1+MS
16300.000	90.000	359.903	11853.000	51.100	0.000	55.812	0.000	51.100	0.000	0.000	55.846	48.638	-4.131	MWD+IFR1+MS
16400.000	90.000	359.903	11853.000	51.728	0.000	56.290	0.000	51.728	0.000	0.000	56.323	48.654	-4.001	MWD+IFR1+MS
16500.000	90.000	359.903	11853.000	52.359	0.000	56.776	0.000	52.359	0.000	0.000	56.809	48.672	-3.881	MWD+IFR1+MS
16600.000	90.000	359.903	11853.000	52.995	0.000	57.273	0.000	52.995	0.000	0.000	57.305	48.689	-3.768	MWD+IFR1+MS
16700.000	90.000	359.903	11853.000	53.634	0.000	57.778	0.000	53.634	0.000	0.000	57.810	48.708	-3.663	MWD+IFR1+MS
16800.000	90.000	359.903	11853.000	54.278	0.000	58.292	0.000	54.278	0.000	0.000	58.324	48.727	-3.565	MWD+IFR1+MS
16900.000	90.000	359.903	11853.000	54.925	0.000	58.815	0.000	54.925	0.000	0.000	58.847	48.747	-3.472	MWD+IFR1+MS
17000.000	90.000	359.903	11853.000	55.576	0.000	59.346	0.000	55.576	0.000	0.000	59.378	48.767	-3.385	MWD+IFR1+MS
17100.000	90.000	359.903	11853.000	56.230	0.000	59.886	0.000	56.230	0.000	0.000	59.918	48.788	-3.302	MWD+IFR1+MS
17200.000	90.000	359.903	11853.000	56.887	0.000	60.434	0.000	56.887	0.000	0.000	60.465	48.809	-3.224	MWD+IFR1+MS
17300.000	90.000	359.903	11853.000	57.548	0.000	60.989	0.000	57.548	0.000	0.000	61.020	48.831	-3.150	MWD+IFR1+MS
17400.000	90.000	359.903	11853.000	58.211	0.000	61.552	0.000	58.211	0.000	0.000	61.583	48.854	-3.079	MWD+IFR1+MS
17500.000	90.000	359.903	11853.000	58.878	0.000	62.123	0.000	58.878	0.000	0.000	62.154	48.877	-3.013	MWD+IFR1+MS
17600.000	90.000	359.903	11853.000	59.547	0.000	62.701	0.000	59.547	0.000	0.000	62.731	48.901	-2.949	MWD+IFR1+MS
17700.000	90.000	359.903	11853.000	60.220	0.000	63.285	0.000	60.220	0.000	0.000	63.315	48.925	-2.888	MWD+IFR1+MS
17800.000	90.000	359.903	11853.000	60.895	0.000	63.877	0.000	60.895	0.000	0.000	63.907	48.950	-2.830	MWD+IFR1+MS
17900.000	90.000	359.903	11853.000	61.572	0.000	64.475	0.000	61.572	0.000	0.000	64.504	48.975	-2.774	MWD+IFR1+MS
18000.000	90.000	359.903	11853.000	62.253	0.000	65.079	0.000	62.253	0.000	0.000	65.109	49.001	-2.721	MWD+IFR1+MS
18100.000	90.000	359.903	11853.000	62.935	0.000	65.690	0.000	62.935	0.000	0.000	65.719	49.028	-2.670	MWD+IFR1+MS
18200.000	90.000	359.903	11853.000	63.620	0.000	66.307	0.000	63.620	0.000	0.000	66.336	49.055	-2.621	MWD+IFR1+MS
18300.000	90.000	359.903	11853.000	64.307	0.000	66.929	0.000	64.307	0.000	0.000	66.958	49.083	-2.574	MWD+IFR1+MS
18400.000	90.000	359.903	11853.000	64.997	0.000	67.558	0.000	64.997	0.000	0.000	67.587	49.111	-2.529	MWD+IFR1+MS
18500.000	90.000	359.903	11853.000	65.688	0.000	68.192	0.000	65.688	0.000	0.000	68.220	49.140	-2.486	MWD+IFR1+MS
18600.000	90.000	359.903	11853.000	66.382	0.000	68.831	0.000	66.382	0.000	0.000	68.860	49.170	-2.444	MWD+IFR1+MS
18700.000	90.000	359.903	11853.000	67.077	0.000	69.476	0.000	67.077	0.000	0.000	69.504	49.200	-2.403	MWD+IFR1+MS
18800.000	90.000	359.903	11853.000	67.775	0.000	70.126	0.000	67.775	0.000	0.000	70.154	49.231	-2.364	MWD+IFR1+MS
18900.000	90.000	359.903	11853.000	68.474	0.000	70.781	0.000	68.474	0.000	0.000	70.809	49.262	-2.327	MWD+IFR1+MS
19000.000	90.000	359.903	11853.000	69.176	0.000	71.441	0.000	69.176	0.000	0.000	71.468	49.294	-2.291	MWD+IFR1+MS
19100.000	90.000	359.903	11853.000	69.879	0.000	72.105	0.000	69.879	0.000	0.000	72.132	49.326	-2.256	MWD+IFR1+MS

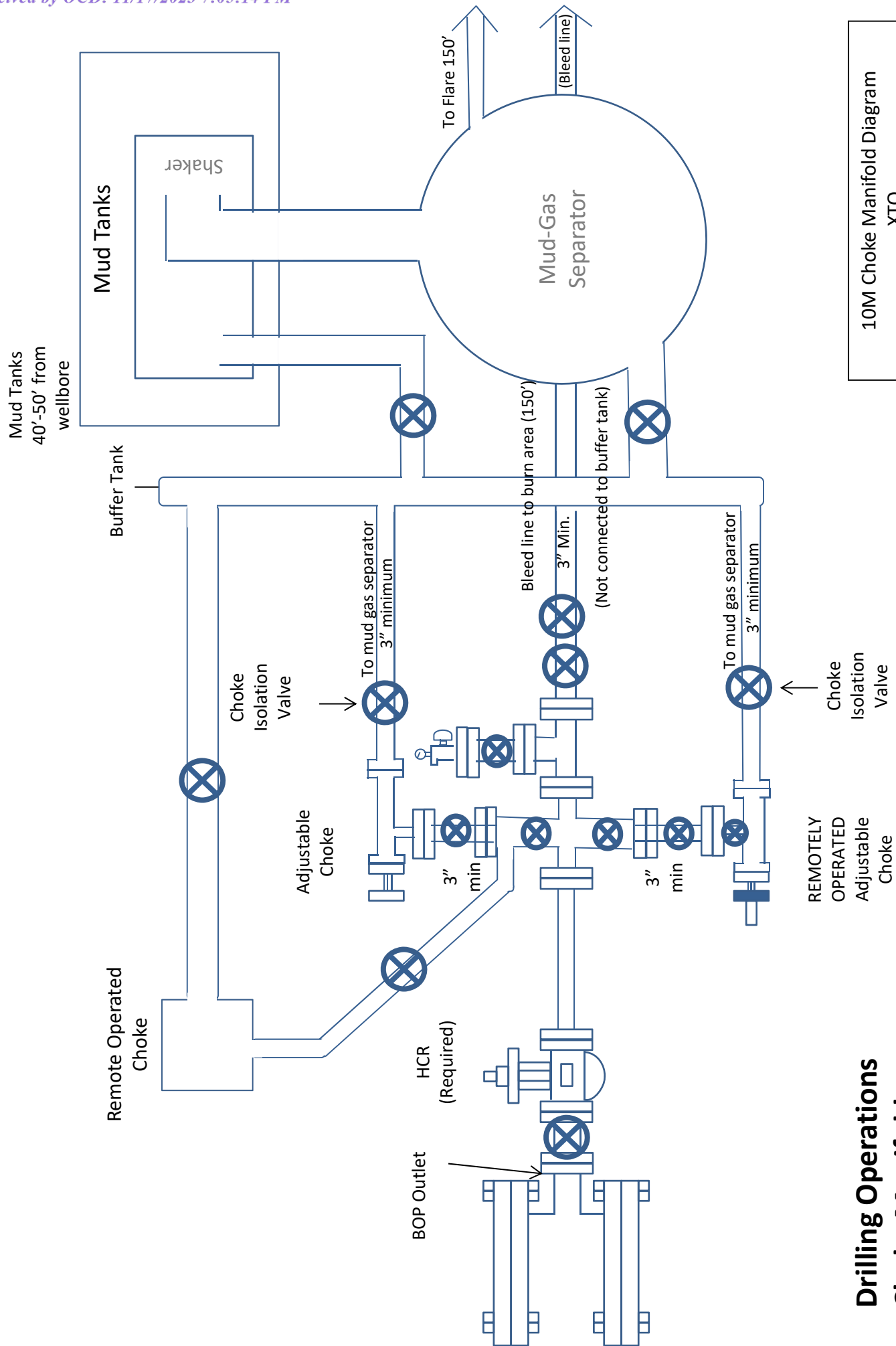
19200.000	90.000	359.903	11853.000	70.584	0.000	72.774	0.000	70.584	0.000	0.000	72.801	49.359	-2.222	MWD+IFR1+MS
19300.000	90.000	359.903	11853.000	71.290	0.000	73.448	0.000	71.290	0.000	0.000	73.474	49.393	-2.189	MWD+IFR1+MS
19400.000	90.000	359.903	11853.000	71.998	0.000	74.126	0.000	71.998	0.000	0.000	74.152	49.427	-2.157	MWD+IFR1+MS
19500.000	90.000	359.903	11853.000	72.708	0.000	74.808	0.000	72.708	0.000	0.000	74.834	49.461	-2.126	MWD+IFR1+MS
19600.000	90.000	359.903	11853.000	73.419	0.000	75.494	0.000	73.419	0.000	0.000	75.520	49.497	-2.096	MWD+IFR1+MS
19700.000	90.000	359.903	11853.000	74.132	0.000	76.184	0.000	74.132	0.000	0.000	76.210	49.532	-2.067	MWD+IFR1+MS
19800.000	90.000	359.903	11853.000	74.846	0.000	76.878	0.000	74.846	0.000	0.000	76.904	49.569	-2.039	MWD+IFR1+MS
19900.000	90.000	359.903	11853.000	75.561	0.000	77.576	0.000	75.561	0.000	0.000	77.602	49.606	-2.012	MWD+IFR1+MS
20000.000	90.000	359.903	11853.000	76.278	0.000	78.278	0.000	76.278	0.000	0.000	78.303	49.643	-1.986	MWD+IFR1+MS
20100.000	90.000	359.903	11853.000	76.996	0.000	78.983	0.000	76.996	0.000	0.000	79.008	49.681	-1.960	MWD+IFR1+MS
20200.000	90.000	359.903	11853.000	77.716	0.000	79.692	0.000	77.716	0.000	0.000	79.717	49.720	-1.935	MWD+IFR1+MS
20300.000	90.000	359.903	11853.000	78.437	0.000	80.404	0.000	78.437	0.000	0.000	80.429	49.759	-1.910	MWD+IFR1+MS
20400.000	90.000	359.903	11853.000	79.159	0.000	81.119	0.000	79.159	0.000	0.000	81.144	49.798	-1.887	MWD+IFR1+MS
20500.000	90.000	359.903	11853.000	79.882	0.000	81.838	0.000	79.882	0.000	0.000	81.862	49.839	-1.864	MWD+IFR1+MS
20600.000	90.000	359.903	11853.000	80.606	0.000	82.559	0.000	80.606	0.000	0.000	82.584	49.879	-1.841	MWD+IFR1+MS
20700.000	90.000	359.903	11853.000	81.332	0.000	83.284	0.000	81.332	0.000	0.000	83.308	49.921	-1.819	MWD+IFR1+MS
20800.000	90.000	359.903	11853.000	82.058	0.000	84.012	0.000	82.058	0.000	0.000	84.036	49.963	-1.798	MWD+IFR1+MS
20892.624	90.000	359.903	11853.000	82.732	0.000	84.688	0.000	82.732	0.000	0.000	84.712	50.002	-1.779	MWD+IFR1+MS
20900.000	90.000	359.903	11853.000	82.785	0.000	84.742	0.000	82.785	0.000	0.000	84.766	50.005	-1.777	MWD+IFR1+MS
20981.763	90.000	359.903	11853.000	83.379	0.000	85.340	0.000	83.379	0.000	0.000	85.363	50.040	-1.761	MWD+IFR1+MS

Plan Targets

POKER LAKE UNIT 30-19 BS 154H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 10	12918.51	401423.90	658887.90	8432.00	RECTANGLE
LTP 10	20900.62	409406.00	658874.40	8432.00	RECTANGLE
BHL 10	20989.81	409496.00	658874.50	8432.00	RECTANGLE





**Drilling Operations
Choke Manifold
10M Service**



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 286888

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 286888
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. If cement does not come to surface during cementing, then a CBL is required.	11/20/2023