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

Sundry Print Report

12/03/2023

Well Name: POKER LAKE UNIT 30-19 BS

Well Location: T25S / R31E / SEC 30 / NWNE /

County or Parish/State:

Well Number: 103H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC061634B

Unit or CA Name:

Unit or CA Number: NMNM71016X

US Well Number: 3001553547

Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2758542

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/29/2023

Time Sundry Submitted: 08:34

Date proposed operation will begin: 11/06/2023

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/533'FNL & 2588'FEL to 533'FNL & 2588'FEL FTP: fr/2310'FNL & 1590'FWL to 2115'FNL & 2493'FEL LTP: fr/100'FNL &1590'FWL to 95'FSL & 1980'FWL BHL: fr/50'FNL & 1590'FWL to 184'FSL & 1970'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 BOP MCM

NOI Attachments

Procedure Description

PLU_30_19_BS_103H_sundry_attachments_20231029202914.pdf

Well Name: POKER LAKE UNIT 30-19 BS

Well Location: T25S / R31E / SEC 30 / NWNE /

County or Parish/State:

Well Number: 103H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC061634B

Unit or CA Name:

Unit or CA Number: NMNM71016X

US Well Number: 3001553547

Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_30_25S_31E_NMP_Sundry_2758542_Poker_Lake_Unit_30_19_BS_103H_COAs_20231201084959.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: OCT 29, 2023 08:34 PM

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: 12/01/2023

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC061634B

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No. POKER LAKE UNIT 30-19 BS/103H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001553547

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

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

10. Field and Pool or Exploratory Area PURPLE SAGE/BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 30/T25S/R31E/NMP

11. Country or Parish, State EDDY/NM

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

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

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

** 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/533FNL & 2588FEL to 533FNL & 2588FEL

FTP: fr/2310FNL & 1590FWL to 2115FNL & 2493FEL

LTP: fr/100FNL &1590FWL to 95FSL & 1980FWL

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

Signature (Electronic Submission)

Date 10/29/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 12/01/2023

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

Additional Information

Additional Remarks

BHL: fr/50FNL & 1590FWL to 184FSL & 1970FWL, 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
BOP
MCM

Location of Well

0. SHL: NWNE / 533 FNL / 2588 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.10707 / LONG: -103.817197 (TVD: 0 feet, MD: 0 feet)
PPP: SENW / 2310 FNL / 1590 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.102179 / LONG: -103.820886 (TVD: 11490 feet, MD: 12201 feet)
BHL: NENW / 50 FNL / 1590 FWL / TWSP: 25S / RANGE: 31E / SECTION: 19 / LAT: 32.123008 / LONG: -103.82082 (TVD: 11490 feet, MD: 19778 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 30-19 BS 103H
LOCATION:	Sec 30-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2758542** on 12/01/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	○ No	○ Yes		
Potash / WIPP	◉ None	○ Secretary	○ R-111-P	☐ WIPP
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☑ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Break Testing	☐ Water Disposal	☐ COM	☑ Unit
Variance	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ **Batch APD / Sundry**				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 1,136 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 6772'**

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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the

plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015- 53547	98220	Purple Sage; Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 30-19 BS	103H

[7] OGRID No.	[8] Operator Name	[9] Elevation
005380	XTO ENERGY, INC.	3,397'

[10] Surface Location

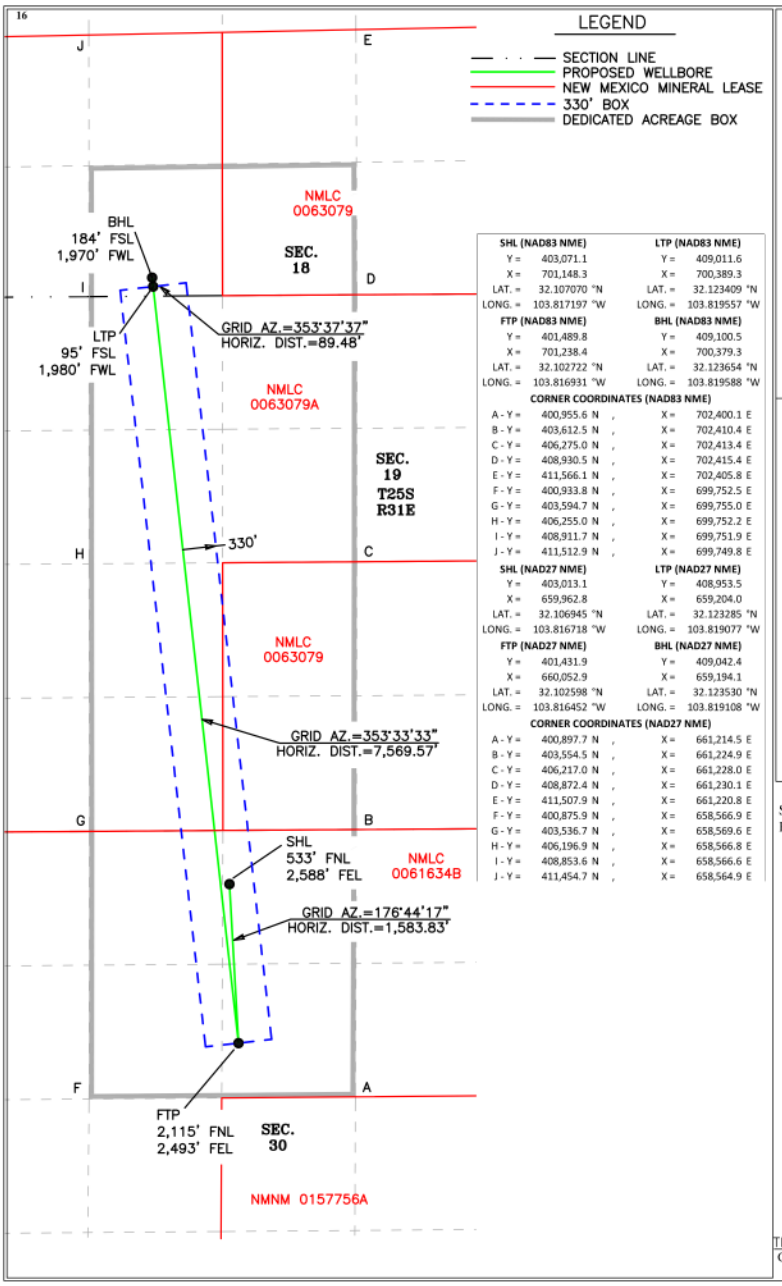
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	30	25 S	31 E		533	NORTH	2,588	EAST	EDDY

[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
N	18	25 S	31 E		184	SOUTH	1,970	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
1120			

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.



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	403,071.1	Y =	409,011.6
X =	701,148.3	X =	700,389.3
LAT. =	32.107070 °N	LAT. =	32.123409 °N
LONG. =	103.817197 °W	LONG. =	103.819557 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	401,489.8	Y =	409,100.5
X =	701,238.4	X =	700,379.3
LAT. =	32.102722 °N	LAT. =	32.123654 °N
LONG. =	103.816931 °W	LONG. =	103.819588 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	400,955.6 N	X =	702,400.1 E
B - Y =	403,612.5 N	X =	702,410.4 E
C - Y =	406,275.0 N	X =	702,413.4 E
D - Y =	408,930.5 N	X =	702,415.4 E
E - Y =	411,566.1 N	X =	702,405.8 E
F - Y =	400,933.8 N	X =	699,752.5 E
G - Y =	403,594.7 N	X =	699,755.0 E
H - Y =	406,255.0 N	X =	699,752.2 E
I - Y =	408,911.7 N	X =	699,751.9 E
J - Y =	411,512.9 N	X =	699,749.8 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	403,013.1	Y =	408,953.5
X =	659,962.8	X =	659,204.0
LAT. =	32.106945 °N	LAT. =	32.123285 °N
LONG. =	103.816718 °W	LONG. =	103.819077 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	401,431.9	Y =	409,042.4
X =	660,052.9	X =	659,194.1
LAT. =	32.102598 °N	LAT. =	32.123530 °N
LONG. =	103.816452 °W	LONG. =	103.819108 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	400,897.7 N	X =	661,214.5 E
B - Y =	403,554.5 N	X =	661,224.9 E
C - Y =	406,217.0 N	X =	661,228.0 E
D - Y =	408,872.4 N	X =	661,230.1 E
E - Y =	411,507.9 N	X =	661,220.8 E
F - Y =	400,875.9 N	X =	658,566.9 E
G - Y =	403,536.7 N	X =	658,569.6 E
H - Y =	406,196.9 N	X =	658,566.8 E
I - Y =	408,853.6 N	X =	658,566.6 E
J - Y =	411,454.7 N	X =	658,564.9 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.

Cassie Evans 10/21/23
Signature Date

Cassie Evans
Printed Name

cassie.evans@exxonmobil.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

10-5-2023
Date of Survey

LM 2019082902

Signature and Seal of Professional Surveyor:

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

9 OCT 2023

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

TIM C. PAPPAS 21290
Certificate Number

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

XTO Energy Inc.
PLU 30-19 BS 103H
Projected TD: 20088.67' MD / 11498' TVD
SHL: 533' FNL & 2588' FEL , Section 30, T25S, R31E
BHL: 184' FSL & 1970' 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	1036'	Water
Top of Salt	1393'	Water
Base of Salt	4001'	Water
Delaware	4191'	Water
Brushy Canyon	6762'	Water/Oil/Gas
Bone Spring	8099'	Water
1st Bone Spring	9030'	Water/Oil/Gas
2nd Bone Spring	9681'	Water/Oil/Gas
3rd Bone Spring	11055'	Water/Oil/Gas
Wolfcamp	11428'	Water/Oil/Gas
Wolfcamp X	11458'	Water/Oil/Gas
Wolfcamp Y	11494'	Water/Oil/Gas
Target/Land Curve	11498'	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 @ 1136' (257' 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 11109.65' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20088.67 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10809.65 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1136'	9.625	40	J-55	BTC	New	1.15	5.54	13.86
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.91	2.52	1.69
8.75	4000' – 11109.65'	7.625	29.7	HC L-80	Flush Joint	New	1.39	1.65	1.92
6.75	0' – 11009.65'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.55	2.12
6.75	11009.65' - 20088.67'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.49	2.12

· 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 +/- 1136'

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 +/- 11109.65'
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: 400 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6762
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 (6762') 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 +/- 20088.67'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10809.65 feet
Tail: 630 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 11309.65 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 4944 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling 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' - 1136'	12.25	FW/Native	8.4-8.9	35-40	NC
1136' - 11109.65'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
11109.65' - 20088.67'	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 7474 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 103H

Measured Depth:	20088.67 ft	**Site:**	30-19
TVD RKB:	11490.00 ft	**Slot:**	POKER LAKE UNIT 30-19 BS 103H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403013.10 ft		
Easting:	659962.80 ft		
RKB:	3429.00 ft		
Ground Level:	3389.00 ft		
North Reference:	Grid		
Convergence Angle:	0.27 Deg		

Plan Sections POKER LAKE UNIT 30-19 BS 103H

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	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	
2566.28	29.33	175.75	2511.09	-366.11	27.21	2.00	0.00	2.00	
5761.57	29.33	175.75	5296.91	-1926.77	143.21	0.00	0.00	0.00	
7227.85	0.00	0.00	6700.00	-2292.88	170.42	-2.00	0.00	2.00	
11309.65	0.00	0.00	10781.80	-2292.88	170.42	0.00	0.00	0.00	
12434.65	90.00	353.56	11498.00	-1581.20	90.10	8.00	0.00	8.00	FTP 2
20004.00	90.00	353.56	11498.00	5940.40	-758.80	0.00	0.00	0.00	LTP 2
20088.67	90.00	353.56	11498.00	6024.54	-768.30	0.00	0.00	0.00	BHL 2

Position Uncertainty POKER LAKE UNIT 30-19 BS 103H

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

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.582	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	175.749	1199.980	4.746	0.000	4.596	-0.000	2.691	0.000	0.000	5.076	4.231	125.523	MWD+IFR1+MS
1300.000	4.000	175.749	1299.838	5.549	0.000	4.926	-0.000	2.752	0.000	0.000	5.814	4.620	114.691	MWD+IFR1+MS
1400.000	6.000	175.749	1399.452	6.264	0.000	5.259	-0.000	2.817	0.000	0.000	6.517	4.964	110.028	MWD+IFR1+MS
1500.000	8.000	175.749	1498.702	6.916	0.000	5.596	-0.000	2.890	0.000	0.000	7.176	5.299	107.584	MWD+IFR1+MS
1600.000	10.000	175.749	1597.465	7.521	0.000	5.937	-0.000	2.973	0.000	0.000	7.796	5.633	106.119	MWD+IFR1+MS
1700.000	12.000	175.749	1695.623	8.088	0.000	6.282	-0.000	3.068	0.000	0.000	8.385	5.969	105.164	MWD+IFR1+MS
1800.000	14.000	175.749	1793.055	8.624	0.000	6.631	-0.000	3.176	0.000	0.000	8.946	6.310	104.512	MWD+IFR1+MS
1900.000	16.000	175.749	1889.643	9.134	0.000	6.986	-0.000	3.299	0.000	0.000	9.484	6.656	104.054	MWD+IFR1+MS
2000.000	18.000	175.749	1985.268	9.622	0.000	7.347	-0.000	3.439	0.000	0.000	10.003	7.009	103.735	MWD+IFR1+MS
2100.000	20.000	175.749	2079.816	10.090	0.000	7.715	-0.000	3.597	0.000	0.000	10.505	7.368	103.517	MWD+IFR1+MS
2200.000	22.000	175.749	2173.169	10.541	0.000	8.089	-0.000	3.774	0.000	0.000	10.993	7.736	103.382	MWD+IFR1+MS
2300.000	24.000	175.749	2265.215	10.977	0.000	8.472	-0.000	3.970	0.000	0.000	11.467	8.111	103.316	MWD+IFR1+MS
2400.000	26.000	175.749	2355.841	11.400	0.000	8.863	-0.000	4.188	0.000	0.000	11.929	8.495	103.311	MWD+IFR1+MS
2500.000	28.000	175.749	2444.937	11.811	0.000	9.263	-0.000	4.427	0.000	0.000	12.381	8.889	103.365	MWD+IFR1+MS
2566.279	29.326	175.749	2503.093	11.997	0.000	9.526	-0.000	4.545	0.000	0.000	12.612	9.154	103.450	MWD+IFR1+MS
2600.000	29.326	175.749	2532.492	12.102	0.000	9.659	-0.000	4.590	0.000	0.000	12.704	9.290	103.518	MWD+IFR1+MS
2700.000	29.326	175.749	2619.677	12.416	0.000	10.068	-0.000	4.743	0.000	0.000	12.980	9.704	103.868	MWD+IFR1+MS
2800.000	29.326	175.749	2706.862	12.751	0.000	10.493	-0.000	4.911	0.000	0.000	13.274	10.130	104.368	MWD+IFR1+MS
2900.000	29.326	175.749	2794.048	13.095	0.000	10.925	-0.000	5.087	0.000	0.000	13.578	10.560	104.903	MWD+IFR1+MS

3000.000	29.326	175.749	2881.233	13.450	0.000	11.362	-0.000	5.270	0.000	0.000	13.889	10.995	105.474	MWD+IFR1+MS
3100.000	29.326	175.749	2968.418	13.813	0.000	11.804	-0.000	5.459	0.000	0.000	14.208	11.434	106.086	MWD+IFR1+MS
3200.000	29.326	175.749	3055.603	14.184	0.000	12.250	-0.000	5.655	0.000	0.000	14.534	11.876	106.740	MWD+IFR1+MS
3300.000	29.326	175.749	3142.788	14.563	0.000	12.699	-0.000	5.856	0.000	0.000	14.867	12.321	107.441	MWD+IFR1+MS
3400.000	29.326	175.749	3229.973	14.949	0.000	13.152	-0.000	6.061	0.000	0.000	15.206	12.769	108.192	MWD+IFR1+MS
3500.000	29.326	175.749	3317.158	15.342	0.000	13.608	-0.000	6.271	0.000	0.000	15.552	13.218	108.996	MWD+IFR1+MS
3600.000	29.326	175.749	3404.343	15.741	0.000	14.067	-0.000	6.486	0.000	0.000	15.904	13.669	109.859	MWD+IFR1+MS
3700.000	29.326	175.749	3491.528	16.145	0.000	14.528	-0.000	6.704	0.000	0.000	16.261	14.122	110.784	MWD+IFR1+MS
3800.000	29.326	175.749	3578.713	16.554	0.000	14.991	-0.000	6.925	0.000	0.000	16.624	14.575	111.775	MWD+IFR1+MS
3900.000	29.326	175.749	3665.898	16.968	0.000	15.457	-0.000	7.150	0.000	0.000	16.992	15.029	112.837	MWD+IFR1+MS
4000.000	29.326	175.749	3753.083	17.387	0.000	15.924	-0.000	7.377	0.000	0.000	17.366	15.484	113.973	MWD+IFR1+MS
4100.000	29.326	175.749	3840.268	17.809	0.000	16.393	-0.000	7.607	0.000	0.000	17.744	15.939	115.189	MWD+IFR1+MS
4200.000	29.326	175.749	3927.453	18.236	0.000	16.864	-0.000	7.840	0.000	0.000	18.128	16.394	116.485	MWD+IFR1+MS
4300.000	29.326	175.749	4014.639	18.666	0.000	17.336	-0.000	8.074	0.000	0.000	18.516	16.848	117.866	MWD+IFR1+MS
4400.000	29.326	175.749	4101.824	19.099	0.000	17.809	-0.000	8.311	0.000	0.000	18.910	17.302	119.331	MWD+IFR1+MS
4500.000	29.326	175.749	4189.009	19.536	0.000	18.284	-0.000	8.550	0.000	0.000	19.308	17.755	120.879	MWD+IFR1+MS
4600.000	29.326	175.749	4276.194	19.975	0.000	18.759	-0.000	8.791	0.000	0.000	19.711	18.207	122.509	MWD+IFR1+MS
4700.000	29.326	175.749	4363.379	20.417	0.000	19.236	-0.000	9.034	0.000	0.000	20.120	18.657	124.213	MWD+IFR1+MS
4800.000	29.326	175.749	4450.564	20.862	0.000	19.714	-0.000	9.279	0.000	0.000	20.532	19.106	125.985	MWD+IFR1+MS
4900.000	29.326	175.749	4537.749	21.309	0.000	20.192	-0.000	9.525	0.000	0.000	20.950	19.554	127.813	MWD+IFR1+MS
5000.000	29.326	175.749	4624.934	21.758	0.000	20.672	-0.000	9.773	0.000	0.000	21.372	20.000	129.685	MWD+IFR1+MS
5100.000	29.326	175.749	4712.119	22.209	0.000	21.152	-0.000	10.022	0.000	0.000	21.799	20.444	131.584	MWD+IFR1+MS
5200.000	29.326	175.749	4799.304	22.663	0.000	21.633	-0.000	10.272	0.000	0.000	22.231	20.886	133.495	MWD+IFR1+MS
5300.000	29.326	175.749	4886.489	23.118	0.000	22.115	-0.000	10.524	0.000	0.000	22.667	21.326	-44.600	MWD+IFR1+MS
5400.000	29.326	175.749	4973.674	23.575	0.000	22.597	-0.000	10.778	0.000	0.000	23.107	21.764	-42.718	MWD+IFR1+MS
5500.000	29.326	175.749	5060.859	24.034	0.000	23.080	-0.000	11.032	0.000	0.000	23.551	22.201	-40.874	MWD+IFR1+MS
5600.000	29.326	175.749	5148.044	24.494	0.000	23.563	-0.000	11.288	0.000	0.000	23.999	22.635	-39.084	MWD+IFR1+MS
5700.000	29.326	175.749	5235.229	24.956	0.000	24.047	-0.000	11.546	0.000	0.000	24.451	23.069	-37.357	MWD+IFR1+MS
5761.568	29.326	175.749	5288.907	25.238	0.000	24.342	-0.000	11.703	0.000	0.000	24.726	23.334	-36.305	MWD+IFR1+MS
5800.000	28.557	175.749	5322.540	25.451	0.000	24.525	-0.000	11.802	0.000	0.000	24.896	23.500	-35.672	MWD+IFR1+MS
5900.000	26.557	175.749	5411.190	26.027	0.000	24.997	-0.000	12.070	0.000	0.000	25.358	23.947	-35.011	MWD+IFR1+MS
6000.000	24.557	175.749	5501.401	26.615	0.000	25.462	-0.000	12.344	0.000	0.000	25.838	24.412	-35.511	MWD+IFR1+MS
6100.000	22.557	175.749	5593.063	27.157	0.000	25.915	-0.000	12.595	0.000	0.000	26.308	24.872	-36.156	MWD+IFR1+MS

6200.000	20.557	175.749	5686.064	27.654	0.000	26.357	-0.000	12.825	0.000	0.000	26.770	25.325	-36.929	MWD+IFR1+MS
6300.000	18.557	175.749	5780.290	28.105	0.000	26.786	-0.000	13.035	0.000	0.000	27.221	25.770	-37.815	MWD+IFR1+MS
6400.000	16.557	175.749	5875.627	28.510	0.000	27.202	-0.000	13.227	0.000	0.000	27.663	26.204	-38.795	MWD+IFR1+MS
6500.000	14.557	175.749	5971.958	28.868	0.000	27.605	-0.000	13.402	0.000	0.000	28.093	26.627	-39.853	MWD+IFR1+MS
6600.000	12.557	175.749	6069.167	29.179	0.000	27.994	-0.000	13.562	0.000	0.000	28.513	27.037	-40.970	MWD+IFR1+MS
6700.000	10.557	175.749	6167.135	29.442	0.000	28.369	-0.000	13.708	0.000	0.000	28.921	27.434	-42.129	MWD+IFR1+MS
6800.000	8.557	175.749	6265.742	29.659	0.000	28.731	-0.000	13.841	0.000	0.000	29.317	27.817	-43.310	MWD+IFR1+MS
6900.000	6.557	175.749	6364.868	29.828	0.000	29.078	-0.000	13.964	0.000	0.000	29.701	28.185	-44.496	MWD+IFR1+MS
7000.000	4.557	175.749	6464.393	29.951	0.000	29.410	-0.000	14.077	0.000	0.000	30.072	28.538	134.331	MWD+IFR1+MS
7100.000	2.557	175.749	6564.196	30.027	0.000	29.729	-0.000	14.182	0.000	0.000	30.431	28.875	133.185	MWD+IFR1+MS
7200.000	0.557	175.749	6664.154	30.058	0.000	30.033	-0.000	14.281	0.000	0.000	30.776	29.196	132.081	MWD+IFR1+MS
7227.847	0.000	0.000	6692.000	30.148	0.000	29.992	0.000	14.308	0.000	0.000	30.848	29.271	132.152	MWD+IFR1+MS
7300.000	0.000	0.000	6764.153	30.327	0.000	30.174	0.000	14.378	0.000	0.000	31.027	29.454	132.223	MWD+IFR1+MS
7400.000	0.000	0.000	6864.153	30.577	0.000	30.433	0.000	14.476	0.000	0.000	31.280	29.709	132.373	MWD+IFR1+MS
7500.000	0.000	0.000	6964.153	30.830	0.000	30.695	0.000	14.578	0.000	0.000	31.539	29.966	132.525	MWD+IFR1+MS
7600.000	0.000	0.000	7064.153	31.086	0.000	30.959	0.000	14.682	0.000	0.000	31.799	30.226	132.675	MWD+IFR1+MS
7700.000	0.000	0.000	7164.153	31.344	0.000	31.224	0.000	14.789	0.000	0.000	32.062	30.487	132.822	MWD+IFR1+MS
7800.000	0.000	0.000	7264.153	31.604	0.000	31.492	0.000	14.899	0.000	0.000	32.326	30.750	132.966	MWD+IFR1+MS
7900.000	0.000	0.000	7364.153	31.865	0.000	31.761	0.000	15.012	0.000	0.000	32.592	31.015	133.108	MWD+IFR1+MS
8000.000	0.000	0.000	7464.153	32.129	0.000	32.033	0.000	15.128	0.000	0.000	32.860	31.282	133.247	MWD+IFR1+MS
8100.000	0.000	0.000	7564.153	32.394	0.000	32.305	0.000	15.247	0.000	0.000	33.130	31.551	133.384	MWD+IFR1+MS
8200.000	0.000	0.000	7664.153	32.662	0.000	32.580	0.000	15.369	0.000	0.000	33.401	31.821	133.518	MWD+IFR1+MS
8300.000	0.000	0.000	7764.153	32.931	0.000	32.856	0.000	15.495	0.000	0.000	33.674	32.094	133.650	MWD+IFR1+MS
8400.000	0.000	0.000	7864.153	33.201	0.000	33.134	0.000	15.623	0.000	0.000	33.949	32.368	133.780	MWD+IFR1+MS
8500.000	0.000	0.000	7964.153	33.473	0.000	33.413	0.000	15.755	0.000	0.000	34.225	32.643	133.908	MWD+IFR1+MS
8600.000	0.000	0.000	8064.153	33.747	0.000	33.694	0.000	15.890	0.000	0.000	34.502	32.920	134.033	MWD+IFR1+MS
8700.000	0.000	0.000	8164.153	34.023	0.000	33.976	0.000	16.028	0.000	0.000	34.782	33.199	134.156	MWD+IFR1+MS
8800.000	0.000	0.000	8264.153	34.300	0.000	34.260	0.000	16.170	0.000	0.000	35.062	33.479	134.277	MWD+IFR1+MS
8900.000	0.000	0.000	8364.153	34.578	0.000	34.545	0.000	16.315	0.000	0.000	35.344	33.760	134.396	MWD+IFR1+MS
9000.000	0.000	0.000	8464.153	34.858	0.000	34.831	0.000	16.463	0.000	0.000	35.628	34.043	134.513	MWD+IFR1+MS
9100.000	0.000	0.000	8564.153	35.139	0.000	35.119	0.000	16.615	0.000	0.000	35.912	34.328	134.628	MWD+IFR1+MS
9200.000	0.000	0.000	8664.153	35.422	0.000	35.408	0.000	16.770	0.000	0.000	36.199	34.614	134.741	MWD+IFR1+MS
9300.000	0.000	0.000	8764.153	35.706	0.000	35.698	0.000	16.928	0.000	0.000	36.486	34.901	134.852	MWD+IFR1+MS

9400.000	0.000	0.000	8864.153	35.992	0.000	35.989	0.000	17.090	0.000	0.000	36.775	35.189	134.962	MWD+IFR1+MS
9500.000	0.000	0.000	8964.153	36.278	0.000	36.282	0.000	17.256	0.000	0.000	37.064	35.479	-44.931	MWD+IFR1+MS
9600.000	0.000	0.000	9064.153	36.566	0.000	36.576	0.000	17.425	0.000	0.000	37.356	35.770	-44.825	MWD+IFR1+MS
9700.000	0.000	0.000	9164.153	36.856	0.000	36.871	0.000	17.598	0.000	0.000	37.648	36.062	-44.721	MWD+IFR1+MS
9800.000	0.000	0.000	9264.153	37.146	0.000	37.167	0.000	17.774	0.000	0.000	37.941	36.355	-44.618	MWD+IFR1+MS
9900.000	0.000	0.000	9364.153	37.438	0.000	37.464	0.000	17.953	0.000	0.000	38.236	36.649	-44.517	MWD+IFR1+MS
10000.000	0.000	0.000	9464.153	37.730	0.000	37.763	0.000	18.137	0.000	0.000	38.531	36.945	-44.418	MWD+IFR1+MS
10100.000	0.000	0.000	9564.153	38.024	0.000	38.062	0.000	18.323	0.000	0.000	38.828	37.242	-44.320	MWD+IFR1+MS
10200.000	0.000	0.000	9664.153	38.319	0.000	38.362	0.000	18.514	0.000	0.000	39.126	37.539	-44.224	MWD+IFR1+MS
10300.000	0.000	0.000	9764.153	38.615	0.000	38.664	0.000	18.708	0.000	0.000	39.424	37.838	-44.129	MWD+IFR1+MS
10400.000	0.000	0.000	9864.153	38.912	0.000	38.966	0.000	18.906	0.000	0.000	39.724	38.138	-44.035	MWD+IFR1+MS
10500.000	0.000	0.000	9964.153	39.211	0.000	39.269	0.000	19.107	0.000	0.000	40.025	38.439	-43.944	MWD+IFR1+MS
10600.000	0.000	0.000	10064.153	39.510	0.000	39.573	0.000	19.312	0.000	0.000	40.327	38.740	-43.853	MWD+IFR1+MS
10700.000	0.000	0.000	10164.153	39.810	0.000	39.878	0.000	19.520	0.000	0.000	40.629	39.043	-43.764	MWD+IFR1+MS
10800.000	0.000	0.000	10264.153	40.111	0.000	40.184	0.000	19.733	0.000	0.000	40.933	39.347	-43.676	MWD+IFR1+MS
10900.000	0.000	0.000	10364.153	40.413	0.000	40.491	0.000	19.949	0.000	0.000	41.237	39.651	-43.590	MWD+IFR1+MS
11000.000	0.000	0.000	10464.153	40.716	0.000	40.799	0.000	20.168	0.000	0.000	41.542	39.957	-43.504	MWD+IFR1+MS
11100.000	0.000	0.000	10564.153	41.020	0.000	41.107	0.000	20.392	0.000	0.000	41.848	40.263	-43.420	MWD+IFR1+MS
11200.000	0.000	0.000	10664.153	41.324	0.000	41.416	0.000	20.618	0.000	0.000	42.155	40.570	-43.338	MWD+IFR1+MS
11309.650	0.000	0.000	10773.803	41.660	0.000	41.757	0.000	20.872	0.000	0.000	42.495	40.908	-43.250	MWD+IFR1+MS
11400.000	7.228	353.561	10863.914	40.543	0.000	42.200	0.000	21.083	0.000	0.000	42.853	41.266	133.395	MWD+IFR1+MS
11500.000	15.228	353.561	10961.920	39.673	0.000	42.468	0.000	21.373	0.000	0.000	43.629	41.873	118.881	MWD+IFR1+MS
11600.000	23.228	353.561	11056.265	38.409	0.000	42.704	0.000	21.803	0.000	0.000	44.520	42.274	109.210	MWD+IFR1+MS
11700.000	31.228	353.561	11145.112	36.773	0.000	42.906	0.000	22.424	0.000	0.000	45.333	42.547	104.279	MWD+IFR1+MS
11800.000	39.228	353.561	11226.732	34.926	0.000	43.073	0.000	23.271	0.000	0.000	46.003	42.746	101.698	MWD+IFR1+MS
11900.000	47.228	353.561	11299.536	33.072	0.000	43.205	0.000	24.350	0.000	0.000	46.515	42.891	100.338	MWD+IFR1+MS
12000.000	55.228	353.561	11362.108	31.458	0.000	43.302	0.000	25.641	0.000	0.000	46.870	42.990	99.682	MWD+IFR1+MS
12100.000	63.228	353.561	11413.228	30.349	0.000	43.365	0.000	27.106	0.000	0.000	47.088	43.049	99.453	MWD+IFR1+MS
12200.000	71.228	353.561	11451.903	29.983	0.000	43.396	0.000	28.695	0.000	0.000	47.194	43.073	99.470	MWD+IFR1+MS
12300.000	79.228	353.561	11477.380	30.504	0.000	43.395	0.000	30.349	0.000	0.000	47.224	43.064	99.577	MWD+IFR1+MS
12400.000	87.228	353.561	11489.162	31.908	0.000	43.363	0.000	32.011	0.000	0.000	47.218	43.029	99.610	MWD+IFR1+MS
12434.650	90.000	353.561	11490.000	32.187	0.000	43.343	0.000	32.187	0.000	0.000	47.215	43.009	99.560	MWD+IFR1+MS
12500.000	90.000	353.561	11490.000	32.409	0.000	43.305	0.000	32.409	0.000	0.000	47.211	42.972	99.460	MWD+IFR1+MS

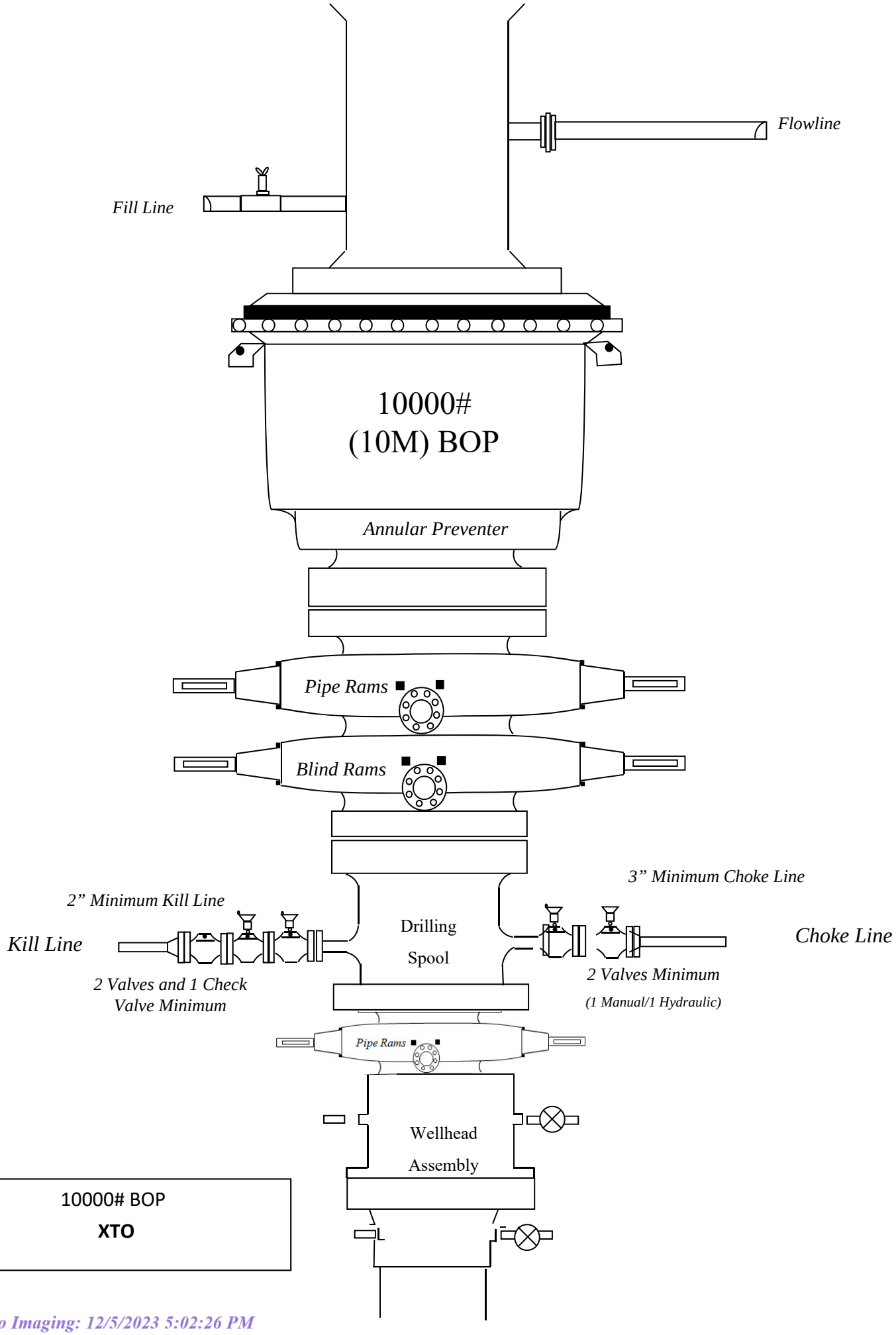
12600.000	90.000	353.561	11490.000	32.732	0.000	43.262	0.000	32.732	0.000	0.000	47.207	42.931	99.359	MWD+IFR1+MS
12700.000	90.000	353.561	11490.000	33.072	0.000	43.235	0.000	33.072	0.000	0.000	47.203	42.903	99.309	MWD+IFR1+MS
12800.000	90.000	353.561	11490.000	33.427	0.000	43.221	0.000	33.427	0.000	0.000	47.202	42.889	99.304	MWD+IFR1+MS
12900.000	90.000	353.561	11490.000	33.797	0.000	43.222	0.000	33.797	0.000	0.000	47.202	42.888	99.344	MWD+IFR1+MS
13000.000	90.000	353.561	11490.000	34.181	0.000	43.237	0.000	34.181	0.000	0.000	47.203	42.900	99.429	MWD+IFR1+MS
13100.000	90.000	353.561	11490.000	34.578	0.000	43.266	0.000	34.578	0.000	0.000	47.206	42.926	99.560	MWD+IFR1+MS
13200.000	90.000	353.561	11490.000	34.988	0.000	43.309	0.000	34.988	0.000	0.000	47.211	42.964	99.739	MWD+IFR1+MS
13300.000	90.000	353.561	11490.000	35.411	0.000	43.366	0.000	35.411	0.000	0.000	47.217	43.016	99.969	MWD+IFR1+MS
13400.000	90.000	353.561	11490.000	35.846	0.000	43.437	0.000	35.846	0.000	0.000	47.225	43.080	100.252	MWD+IFR1+MS
13500.000	90.000	353.561	11490.000	36.293	0.000	43.522	0.000	36.293	0.000	0.000	47.234	43.157	100.593	MWD+IFR1+MS
13600.000	90.000	353.561	11490.000	36.751	0.000	43.621	0.000	36.751	0.000	0.000	47.246	43.247	100.997	MWD+IFR1+MS
13700.000	90.000	353.561	11490.000	37.220	0.000	43.733	0.000	37.220	0.000	0.000	47.260	43.348	101.472	MWD+IFR1+MS
13800.000	90.000	353.561	11490.000	37.700	0.000	43.859	0.000	37.700	0.000	0.000	47.276	43.462	102.024	MWD+IFR1+MS
13900.000	90.000	353.561	11490.000	38.190	0.000	43.999	0.000	38.190	0.000	0.000	47.295	43.587	102.664	MWD+IFR1+MS
14000.000	90.000	353.561	11490.000	38.689	0.000	44.152	0.000	38.689	0.000	0.000	47.317	43.723	103.405	MWD+IFR1+MS
14100.000	90.000	353.561	11490.000	39.198	0.000	44.318	0.000	39.198	0.000	0.000	47.342	43.870	104.260	MWD+IFR1+MS
14200.000	90.000	353.561	11490.000	39.716	0.000	44.498	0.000	39.716	0.000	0.000	47.371	44.026	105.248	MWD+IFR1+MS
14300.000	90.000	353.561	11490.000	40.242	0.000	44.690	0.000	40.242	0.000	0.000	47.404	44.192	106.389	MWD+IFR1+MS
14400.000	90.000	353.561	11490.000	40.777	0.000	44.895	0.000	40.777	0.000	0.000	47.443	44.365	107.709	MWD+IFR1+MS
14500.000	90.000	353.561	11490.000	41.320	0.000	45.113	0.000	41.320	0.000	0.000	47.488	44.546	109.235	MWD+IFR1+MS
14600.000	90.000	353.561	11490.000	41.870	0.000	45.343	0.000	41.870	0.000	0.000	47.540	44.732	110.999	MWD+IFR1+MS
14700.000	90.000	353.561	11490.000	42.428	0.000	45.585	0.000	42.428	0.000	0.000	47.602	44.922	113.037	MWD+IFR1+MS
14800.000	90.000	353.561	11490.000	42.993	0.000	45.839	0.000	42.993	0.000	0.000	47.675	45.113	115.380	MWD+IFR1+MS
14900.000	90.000	353.561	11490.000	43.564	0.000	46.106	0.000	43.564	0.000	0.000	47.761	45.303	118.052	MWD+IFR1+MS
15000.000	90.000	353.561	11490.000	44.143	0.000	46.383	0.000	44.143	0.000	0.000	47.863	45.490	121.061	MWD+IFR1+MS
15100.000	90.000	353.561	11490.000	44.727	0.000	46.673	0.000	44.727	0.000	0.000	47.984	45.669	124.386	MWD+IFR1+MS
15200.000	90.000	353.561	11490.000	45.318	0.000	46.973	0.000	45.318	0.000	0.000	48.127	45.839	127.967	MWD+IFR1+MS
15300.000	90.000	353.561	11490.000	45.914	0.000	47.284	0.000	45.914	0.000	0.000	48.294	45.995	131.703	MWD+IFR1+MS
15400.000	90.000	353.561	11490.000	46.516	0.000	47.607	0.000	46.516	0.000	0.000	48.488	46.137	-44.536	MWD+IFR1+MS
15500.000	90.000	353.561	11490.000	47.123	0.000	47.939	0.000	47.123	0.000	0.000	48.708	46.264	-40.882	MWD+IFR1+MS
15600.000	90.000	353.561	11490.000	47.736	0.000	48.283	0.000	47.736	0.000	0.000	48.953	46.376	-37.449	MWD+IFR1+MS
15700.000	90.000	353.561	11490.000	48.354	0.000	48.636	0.000	48.354	0.000	0.000	49.223	46.474	-34.311	MWD+IFR1+MS
15800.000	90.000	353.561	11490.000	48.976	0.000	48.999	0.000	48.976	0.000	0.000	49.516	46.560	-31.500	MWD+IFR1+MS

15900.000	90.000	353.561	11490.000	49.603	0.000	49.372	0.000	49.603	0.000	0.000	49.830	46.635	-29.017	MWD+IFR1+MS
16000.000	90.000	353.561	11490.000	50.234	0.000	49.754	0.000	50.234	0.000	0.000	50.162	46.702	-26.842	MWD+IFR1+MS
16100.000	90.000	353.561	11490.000	50.870	0.000	50.146	0.000	50.870	0.000	0.000	50.511	46.762	-24.945	MWD+IFR1+MS
16200.000	90.000	353.561	11490.000	51.509	0.000	50.546	0.000	51.509	0.000	0.000	50.875	46.817	-23.291	MWD+IFR1+MS
16300.000	90.000	353.561	11490.000	52.153	0.000	50.956	0.000	52.153	0.000	0.000	51.253	46.867	-21.847	MWD+IFR1+MS
16400.000	90.000	353.561	11490.000	52.801	0.000	51.374	0.000	52.801	0.000	0.000	51.644	46.913	-20.583	MWD+IFR1+MS
16500.000	90.000	353.561	11490.000	53.452	0.000	51.800	0.000	53.452	0.000	0.000	52.047	46.956	-19.472	MWD+IFR1+MS
16600.000	90.000	353.561	11490.000	54.107	0.000	52.235	0.000	54.107	0.000	0.000	52.461	46.996	-18.492	MWD+IFR1+MS
16700.000	90.000	353.561	11490.000	54.765	0.000	52.678	0.000	54.765	0.000	0.000	52.886	47.035	-17.624	MWD+IFR1+MS
16800.000	90.000	353.561	11490.000	55.426	0.000	53.128	0.000	55.426	0.000	0.000	53.321	47.072	-16.851	MWD+IFR1+MS
16900.000	90.000	353.561	11490.000	56.091	0.000	53.586	0.000	56.091	0.000	0.000	53.765	47.109	-16.161	MWD+IFR1+MS
17000.000	90.000	353.561	11490.000	56.759	0.000	54.052	0.000	56.759	0.000	0.000	54.217	47.144	-15.541	MWD+IFR1+MS
17100.000	90.000	353.561	11490.000	57.429	0.000	54.524	0.000	57.429	0.000	0.000	54.679	47.178	-14.983	MWD+IFR1+MS
17200.000	90.000	353.561	11490.000	58.103	0.000	55.004	0.000	58.103	0.000	0.000	55.148	47.212	-14.479	MWD+IFR1+MS
17300.000	90.000	353.561	11490.000	58.779	0.000	55.491	0.000	58.779	0.000	0.000	55.626	47.245	-14.021	MWD+IFR1+MS
17400.000	90.000	353.561	11490.000	59.458	0.000	55.984	0.000	59.458	0.000	0.000	56.111	47.279	-13.604	MWD+IFR1+MS
17500.000	90.000	353.561	11490.000	60.140	0.000	56.484	0.000	60.140	0.000	0.000	56.603	47.312	-13.223	MWD+IFR1+MS
17600.000	90.000	353.561	11490.000	60.824	0.000	56.990	0.000	60.824	0.000	0.000	57.102	47.345	-12.874	MWD+IFR1+MS
17700.000	90.000	353.561	11490.000	61.510	0.000	57.502	0.000	61.510	0.000	0.000	57.608	47.377	-12.554	MWD+IFR1+MS
17800.000	90.000	353.561	11490.000	62.199	0.000	58.020	0.000	62.199	0.000	0.000	58.120	47.410	-12.259	MWD+IFR1+MS
17900.000	90.000	353.561	11490.000	62.890	0.000	58.544	0.000	62.890	0.000	0.000	58.639	47.443	-11.986	MWD+IFR1+MS
18000.000	90.000	353.561	11490.000	63.583	0.000	59.074	0.000	63.583	0.000	0.000	59.164	47.477	-11.733	MWD+IFR1+MS
18100.000	90.000	353.561	11490.000	64.278	0.000	59.609	0.000	64.278	0.000	0.000	59.694	47.510	-11.499	MWD+IFR1+MS
18200.000	90.000	353.561	11490.000	64.976	0.000	60.150	0.000	64.976	0.000	0.000	60.231	47.544	-11.281	MWD+IFR1+MS
18300.000	90.000	353.561	11490.000	65.675	0.000	60.696	0.000	65.675	0.000	0.000	60.773	47.577	-11.078	MWD+IFR1+MS
18400.000	90.000	353.561	11490.000	66.376	0.000	61.247	0.000	66.376	0.000	0.000	61.320	47.612	-10.889	MWD+IFR1+MS
18500.000	90.000	353.561	11490.000	67.079	0.000	61.803	0.000	67.079	0.000	0.000	61.873	47.646	-10.712	MWD+IFR1+MS
18600.000	90.000	353.561	11490.000	67.784	0.000	62.363	0.000	67.784	0.000	0.000	62.430	47.681	-10.546	MWD+IFR1+MS
18700.000	90.000	353.561	11490.000	68.491	0.000	62.929	0.000	68.491	0.000	0.000	62.993	47.716	-10.390	MWD+IFR1+MS
18800.000	90.000	353.561	11490.000	69.199	0.000	63.499	0.000	69.199	0.000	0.000	63.560	47.751	-10.244	MWD+IFR1+MS
18900.000	90.000	353.561	11490.000	69.909	0.000	64.073	0.000	69.909	0.000	0.000	64.132	47.787	-10.106	MWD+IFR1+MS
19000.000	90.000	353.561	11490.000	70.620	0.000	64.652	0.000	70.620	0.000	0.000	64.708	47.824	-9.977	MWD+IFR1+MS
19100.000	90.000	353.561	11490.000	71.333	0.000	65.235	0.000	71.333	0.000	0.000	65.289	47.860	-9.854	MWD+IFR1+MS

19200.000	90.000	353.561	11490.000	72.048	0.000	65.822	0.000	72.048	0.000	0.000	65.874	47.897	-9.739	MWD+IFR1+MS
19300.000	90.000	353.561	11490.000	72.764	0.000	66.414	0.000	72.764	0.000	0.000	66.463	47.935	-9.629	MWD+IFR1+MS
19400.000	90.000	353.561	11490.000	73.481	0.000	67.009	0.000	73.481	0.000	0.000	67.056	47.973	-9.526	MWD+IFR1+MS
19500.000	90.000	353.561	11490.000	74.200	0.000	67.608	0.000	74.200	0.000	0.000	67.653	48.011	-9.427	MWD+IFR1+MS
19600.000	90.000	353.561	11490.000	74.920	0.000	68.210	0.000	74.920	0.000	0.000	68.254	48.050	-9.334	MWD+IFR1+MS
19700.000	90.000	353.561	11490.000	75.641	0.000	68.816	0.000	75.641	0.000	0.000	68.858	48.089	-9.245	MWD+IFR1+MS
19800.000	90.000	353.561	11490.000	76.364	0.000	69.426	0.000	76.364	0.000	0.000	69.467	48.129	-9.161	MWD+IFR1+MS
19900.000	90.000	353.561	11490.000	77.088	0.000	70.039	0.000	77.088	0.000	0.000	70.078	48.169	-9.081	MWD+IFR1+MS
20004.002	90.000	353.561	11490.000	77.842	0.000	70.680	0.000	77.842	0.000	0.000	70.718	48.212	-9.001	MWD+IFR1+MS
20088.673	90.000	353.561	11490.000	78.456	0.000	71.204	0.000	78.456	0.000	0.000	71.241	48.247	-8.940	MWD+IFR1+MS

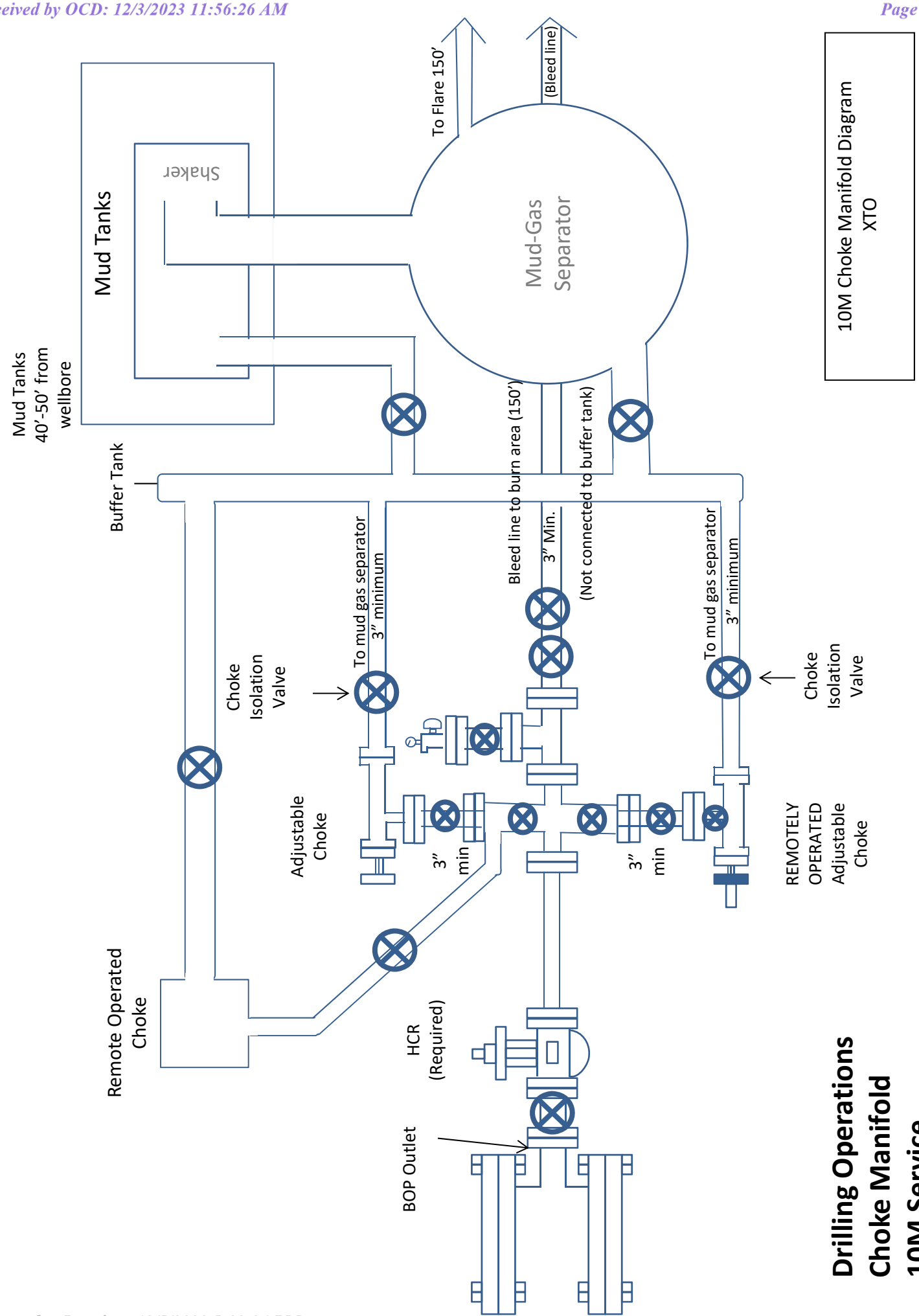
Plan Targets POKER LAKE UNIT 30-19 BS 103H

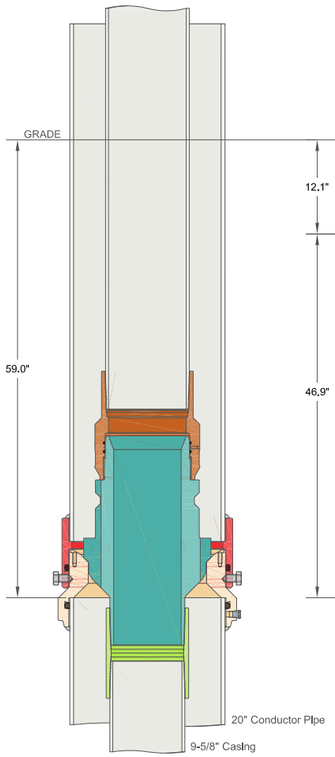
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 2	12442.65	401431.90	660052.90	8069.00	RECTANGLE
BHL 2	20097.99	409042.40	659194.10	8069.00	RECTANGLE
LTP 2	20012.00	408953.50	659204.00	8069.00	RECTANGLE

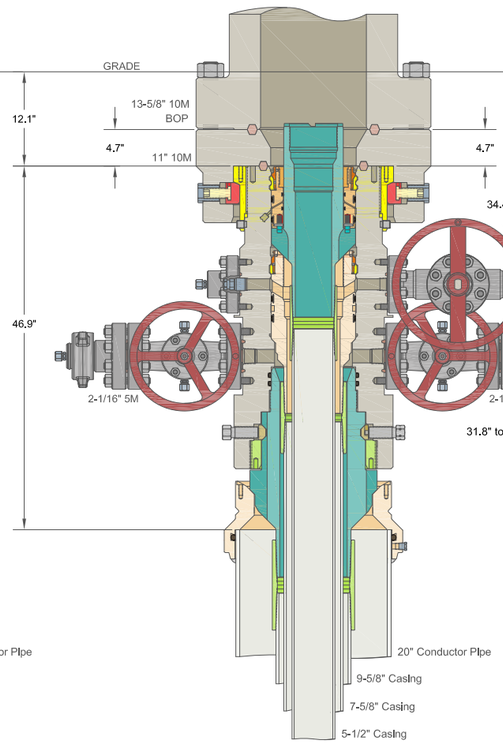


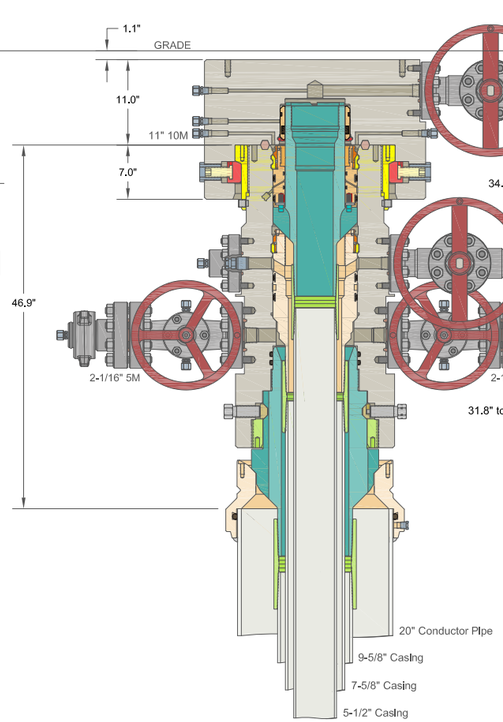
10000# BOP

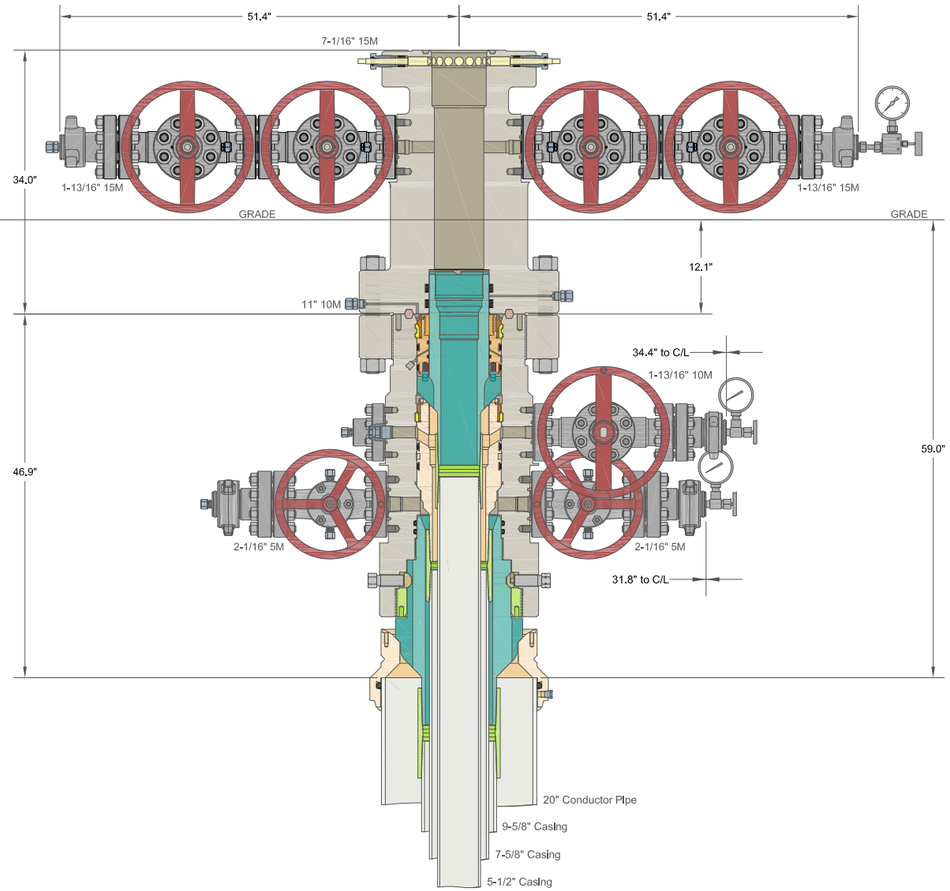
XTO


Mud Tanks
40'-50' from wellbore
Mud Tanks
Shaker
Mud-Gas Separator
To Flare 150'
(Bleed line)
Buffer Tank
Bleed line to burn area (150')
(Not connected to buffer tank)
3" Min.
To mud gas separator
3" minimum
To mud gas separator
3" minimum
Choke Isolation Valve
Choke Isolation Valve
Adjustable Choke
3" min
3" min
REMOTELY OPERATED Adjustable Choke
Remote Operated Choke
HCR (Required)
BOP Outlet
10M Choke Manifold Diagram
XTO
Drilling Operations
Choke Manifold
10M Service









ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 290474

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 290474
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/5/2023