

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

Well Name: POKER LAKE UNIT 19 DTD	Well Location: T24S / R30E / SEC 19 / SENEW /	County or Parish/State:
Well Number: 218H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM002860	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number: 3001553770	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2781297

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/22/2024

Time Sundry Submitted: 03:18

Date proposed operation will begin: 04/12/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, casing sizes, cement, and proposed total depth. FROM: TO: SHL: 1329' FNL & 1393' FWL of Section 19-T24S-R30E 1369' FNL & 1393' FWL of Section 19-T24S-R30E FTP: 100' FSL & 550' FEL of Section 18-T24S-R30E 100' FNL & 1860' FWL of Section 19-T24S-R30E LTP: 100' FNL & 550' FWL of Section 6-T24S-R30E 330' FSL & 1860' FWL of Section 31-T24S-R30E BHL: 50' FNL & 550' FWL of Section 6-T24S-R30E 230' FSL & 1860' FWL of Section 31-T24S-R30E Proposed total depth will change from 27575' MD; 11402' TVD (Wolfcamp) to 26136' MD; TVD 10733' (Wolfcamp A). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS, BOP Variance, Well Control Plan

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_19_DTD_218H_Sundry_Attachments_20240322151831.pdf

Well Name: POKER LAKE UNIT 19
DTD

Well Location: T24S / R30E / SEC 19 /
SENW /

County or Parish/State:

Well Number: 218H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMNM002860

Unit or CA Name:

Unit or CA Number:
NMNM71016X

US Well Number: 3001553770

Well Status: Approved Application for
Permit to Drill

Operator: XTO PERMIAN
OPERATING LLC

Conditions of Approval

Additional

Sec19_24S_30E_NMP_Sundry_2781297_Poker_Lake_Unit_19_DTD_218H_COAs_20240404115107.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: TERRA SEBASTIAN

Signed on: MAR 22, 2024 03:18 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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: 04/05/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

11. Country or Parish, State

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input 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 type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS, BOP Variance, Well Control Plan

Location of Well

0. SHL: SENW / 1329 FNL / 1393 FWL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.206568 / LONG: -103.924999 (TVD: 0 feet, MD: 0 feet)
PPP: SWSW / 330 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22524 / LONG: -103.92772 (TVD: 11402 feet, MD: 17200 feet)
PPP: SWNW / 330 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.23251 / LONG: -103.92772 (TVD: 11402 feet, MD: 19900 feet)
PPP: NWSW / 330 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22873 / LONG: -103.92772 (TVD: 11402 feet, MD: 18500 feet)
PPP: SWSW / 330 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.2397 / LONG: -103.92772 (TVD: 11402 feet, MD: 22500 feet)
PPP: SWSW / 100 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.210468 / LONG: -103.927735 (TVD: 11402 feet, MD: 11900 feet)
BHL: NWNW / 50 FNL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.25381 / LONG: -103.927786 (TVD: 11402 feet, MD: 27575 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 19 DTD 218H
LOCATION:	Sec 19-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Changes approved through engineering via **Sundry 2781297** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input checked="" 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 **9-5/8** inch surface casing shall be set at approximately 430 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. *Set depth adjusted per BLM geologist.*
 - 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:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **300 feet** into previous casing string (tieback increased due to not meeting 0.422" clearance requirement.) Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County (API No. / US Well No. contains 30-015-#####)

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 (API No. / US Well No. contains 30-025-#####)

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240; (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80,

or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. **Wait on cement (WOC) for Potash Areas:** After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. **Wait on cement (WOC) for Water Basin:** After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

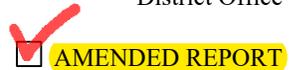
C. **DRILLING MUD:** Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. **WASTE MATERIAL AND FLUIDS:** All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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

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

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



WELL LOCATION AND ACREAGE DEDICATION PLAT

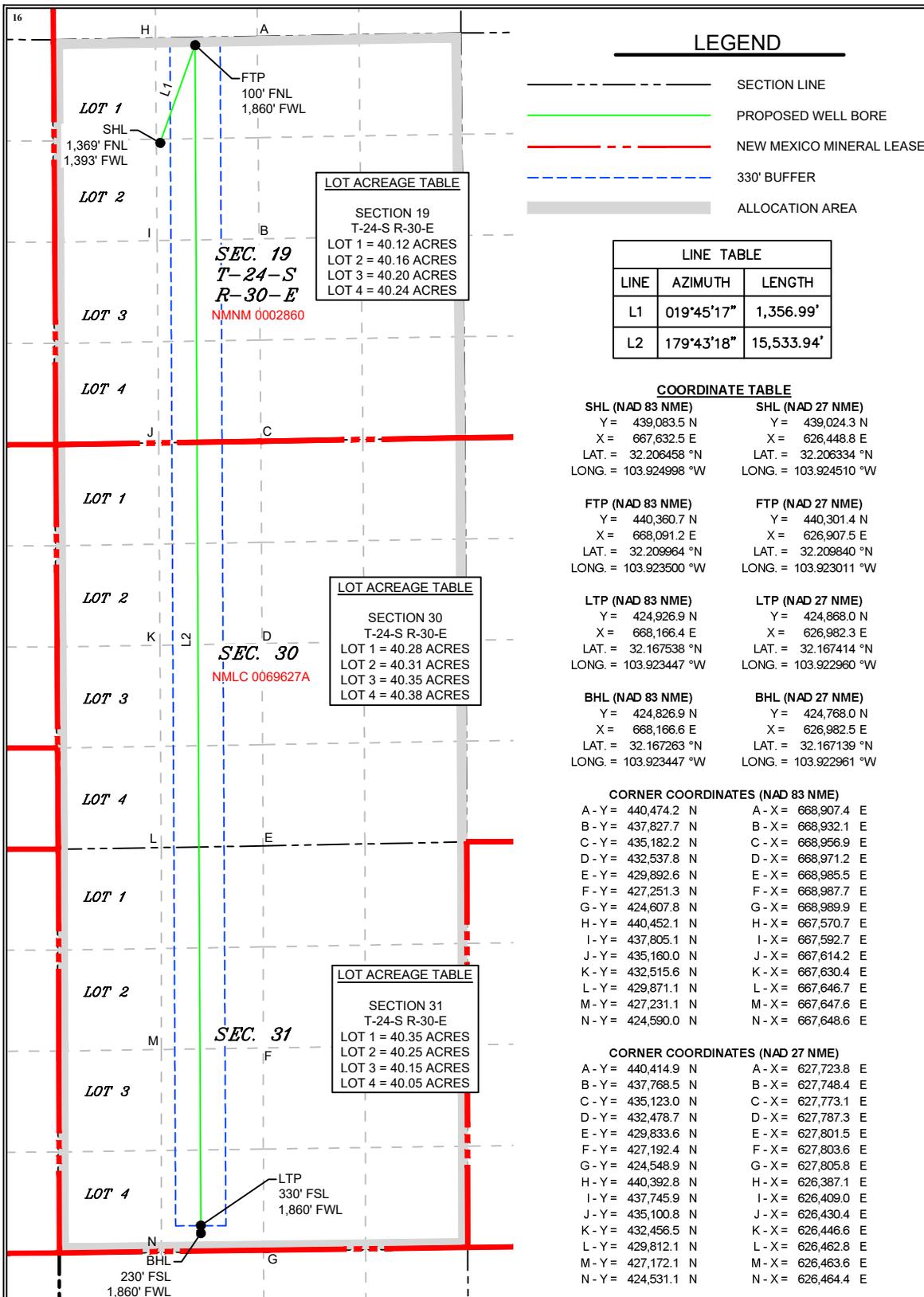
Table with 3 columns: API Number (30-015-53770), Pool Code (98220), Pool Name (Purple Sage; Wolfamp), Property Code (333976), Property Name (POKER LAKE UNIT 19 DTD), Well Number (218H), OGRID No. (373075), Operator Name (XTO PERMIAN OPERATING, LLC), Elevation (3,155')

Table for Surface Location: UL or lot no. (F), Section (19), Township (24S), Range (30E), Lot Idn, Feet from the (1,369), North/South line (NORTH), Feet from the (1,393), East/West line (WEST), County (EDDY)

Table for Bottom Hole Location: UL or lot no. (N), Section (31), Township (24S), Range (30E), Lot Idn, Feet from the (230), North/South line (SOUTH), Feet from the (1,860), East/West line (WEST), County (EDDY)

Table for Well Details: Dedicated Acres (1,922.84), Joint or Infill, Consolidation Code, Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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

Terra Sebastian 3/19/24
Signature Date

Terra Sebastian
Printed Name

terra.b.sebastian@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.

02/09/2024
Date of Survey

Signature and Seal of Professional Surveyor:

Professional Surveyor Seal for Mark Dillon Harp, New Mexico, Certificate Number 23786, DB 618.013003.05-42

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\05 - PLU 19 DTD - EDDY\Wells\42 - 218H\DWG\SOUTH 218H C-102.dwg

Intent As Drilled

API #									
Operator Name:					Property Name:				Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #									
Operator Name:					Property Name:				Well Number

KZ 06/29/2018

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

XTO Energy Inc.

Poker Lake Unit 19 DTD South 218H
Projected TD: 26136.01' MD / 10733' TVD
SHL: 1369' FNL & 1393' FWL , Section 19, T24S, R30E
BHL: 230' FSL & 1860' FWL , Section 31, T24S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	599'	Water
Top of Salt	1002'	Water
Base of Salt	3195'	Water
Delaware	3389'	Water
Brushy Canyon	5887'	Water/Oil/Gas
Bone Spring	7183'	Water
Avalon	7353'	Water/Oil/Gas
1st Bone Spring	8169'	Water/Oil/Gas
2nd Bone Spring	8987'	Water/Oil/Gas
3rd Bone Spring	10081'	Water/Oil/Gas
Wolfcamp	10472'	Water/Oil/Gas
Wolfcamp X	10493'	Water/Oil/Gas
Wolfcamp Y	10571'	Water/Oil/Gas
Wolfcamp A	10613'	Water/Oil/Gas
Target/Land Curve	10733'	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 @ 699' (303' 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 9994.65' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 26136.01 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9694.65 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 699'	9.625	40	J-55	BTC	New	1.66	9.01	22.53
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.33	2.92	1.88
8.75	4000' – 9994.65'	7.625	29.7	CY P-110	Flush Joint	New	2.33	2.21	5.39
6.75	0' – 9894.65'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.88	1.94
6.75	9894.65' - 26136.01'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.73	1.94

· 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 +/- 699'

Lead: 130 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)
 Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9994.65'

1st Stage

Optional Lead: 320 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: Surface
 Tail: 380 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 5887
 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: 660 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 (5887') 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 +/- 26136.01'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9694.65 feet
 Tail: 1140 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10194.65 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 10M Double Ram BOP. MASP should not exceed 4057 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 699'	12.25	FW/Native	8.4-8.9	35-40	NC
699' - 9994.65'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9994.65' - 26136.01'	6.75	OBM	11.5-12	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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6418 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 19 DTD South 218H

Measured Depth: 26136.01 ft

TVD RKB: 10733.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 439024.30 ft

Easting: 626448.80 ft

RKB: 3187.00 ft

Ground Level: 3155.00 ft

North Reference: Grid

Convergence Angle: 0.22 Deg

Plan Sections Poker Lake Unit 19 DTD South 218H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg	
			RKB (ft)	Y Offset (ft)					Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1888.24	15.76	19.76	1878.33	101.41	36.43	2.00	0.00	2.00		
6089.61	15.76	19.76	5921.67	1175.69	422.27	0.00	0.00	0.00		
6877.85	0.00	0.00	6700.00	1277.10	458.70	-2.00	0.00	2.00		
10194.65	0.00	0.00	10016.80	1277.10	458.70	0.00	0.00	0.00		
11319.65	90.00	179.72	10733.00	560.91	462.17	8.00	0.00	8.00		
12046.44	90.00	179.72	10733.00	-165.87	465.70	0.00	0.00	0.00	0.00	LTP 10
26136.01	90.00	179.72	10733.00	-14255.28	534.06	0.00	0.00	0.00	0.00	BHL 10

Position Uncertainty Poker Lake Unit 19 DTD South 218H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	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	2.346	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	2.373	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	2.405	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	2.441	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	2.482	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	2.528	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	2.577	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	2.630	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	19.757	1199.980	5.202	0.000	4.326	0.000	2.685	0.000	0.000	5.303	4.205	128.038	MWD+IFR1+MS
1300.000	4.000	19.757	1299.838	5.967	0.000	4.706	0.000	2.745	0.000	0.000	6.087	4.562	126.431	MWD+IFR1+MS
1400.000	6.000	19.757	1399.452	6.655	0.000	5.082	0.000	2.810	0.000	0.000	6.799	4.917	125.665	MWD+IFR1+MS
1500.000	8.000	19.757	1498.702	7.289	0.000	5.455	0.000	2.883	0.000	0.000	7.458	5.271	125.221	MWD+IFR1+MS
1600.000	10.000	19.757	1597.465	7.879	0.000	5.826	0.000	2.965	0.000	0.000	8.076	5.625	124.935	MWD+IFR1+MS
1700.000	12.000	19.757	1695.623	8.434	0.000	6.196	0.000	3.059	0.000	0.000	8.662	5.980	124.741	MWD+IFR1+MS
1800.000	14.000	19.757	1793.055	8.960	0.000	6.566	0.000	3.167	0.000	0.000	9.221	6.337	124.608	MWD+IFR1+MS
1888.236	15.765	19.757	1878.328	9.347	0.000	6.887	0.000	3.264	0.000	0.000	9.641	6.654	124.520	MWD+IFR1+MS
1900.000	15.765	19.757	1889.649	9.379	0.000	6.928	0.000	3.267	0.000	0.000	9.673	6.696	124.499	MWD+IFR1+MS
2000.000	15.765	19.757	1985.888	9.651	0.000	7.283	0.000	3.354	0.000	0.000	9.933	7.062	124.536	MWD+IFR1+MS
2100.000	15.765	19.757	2082.127	9.945	0.000	7.659	0.000	3.448	0.000	0.000	10.218	7.440	124.820	MWD+IFR1+MS
2200.000	15.765	19.757	2178.365	10.247	0.000	8.036	0.000	3.546	0.000	0.000	10.511	7.818	125.099	MWD+IFR1+MS
2300.000	15.765	19.757	2274.604	10.556	0.000	8.415	0.000	3.647	0.000	0.000	10.810	8.198	125.373	MWD+IFR1+MS
2400.000	15.765	19.757	2370.842	10.871	0.000	8.795	0.000	3.752	0.000	0.000	11.115	8.580	125.642	MWD+IFR1+MS
2500.000	15.765	19.757	2467.081	11.192	0.000	9.176	0.000	3.861	0.000	0.000	11.426	8.962	125.906	MWD+IFR1+MS
2600.000	15.765	19.757	2563.319	11.519	0.000	9.558	0.000	3.972	0.000	0.000	11.741	9.345	126.165	MWD+IFR1+MS
2700.000	15.765	19.757	2659.558	11.851	0.000	9.941	0.000	4.086	0.000	0.000	12.061	9.728	126.420	MWD+IFR1+MS
2800.000	15.765	19.757	2755.796	12.187	0.000	10.324	0.000	4.203	0.000	0.000	12.385	10.113	126.670	MWD+IFR1+MS
2900.000	15.765	19.757	2852.035	12.527	0.000	10.709	0.000	4.322	0.000	0.000	12.714	10.497	126.916	MWD+IFR1+MS

3000.000	15.765	19.757	2948.273	12.872	0.000	11.093	0.000	4.443	0.000	0.000	13.045	10.883	127.156	MWD+IFR1+MS
3100.000	15.765	19.757	3044.512	13.220	0.000	11.479	0.000	4.567	0.000	0.000	13.381	11.269	127.393	MWD+IFR1+MS
3200.000	15.765	19.757	3140.751	13.571	0.000	11.865	0.000	4.693	0.000	0.000	13.719	11.655	127.625	MWD+IFR1+MS
3300.000	15.765	19.757	3236.989	13.925	0.000	12.251	0.000	4.821	0.000	0.000	14.060	12.042	127.852	MWD+IFR1+MS
3400.000	15.765	19.757	3333.228	14.282	0.000	12.638	0.000	4.951	0.000	0.000	14.404	12.429	128.075	MWD+IFR1+MS
3500.000	15.765	19.757	3429.466	14.642	0.000	13.025	0.000	5.083	0.000	0.000	14.750	12.816	128.294	MWD+IFR1+MS
3600.000	15.765	19.757	3525.705	15.004	0.000	13.412	0.000	5.217	0.000	0.000	15.099	13.204	128.509	MWD+IFR1+MS
3700.000	15.765	19.757	3621.943	15.368	0.000	13.800	0.000	5.352	0.000	0.000	15.450	13.592	128.719	MWD+IFR1+MS
3800.000	15.765	19.757	3718.182	15.734	0.000	14.188	0.000	5.489	0.000	0.000	15.803	13.980	128.925	MWD+IFR1+MS
3900.000	15.765	19.757	3814.420	16.103	0.000	14.576	0.000	5.628	0.000	0.000	16.157	14.369	129.127	MWD+IFR1+MS
4000.000	15.765	19.757	3910.659	16.473	0.000	14.965	0.000	5.769	0.000	0.000	16.514	14.757	129.325	MWD+IFR1+MS
4100.000	15.765	19.757	4006.897	16.845	0.000	15.353	0.000	5.911	0.000	0.000	16.872	15.146	129.519	MWD+IFR1+MS
4200.000	15.765	19.757	4103.136	17.218	0.000	15.742	0.000	6.055	0.000	0.000	17.232	15.535	129.709	MWD+IFR1+MS
4300.000	15.765	19.757	4199.375	17.593	0.000	16.131	0.000	6.201	0.000	0.000	17.593	15.925	129.895	MWD+IFR1+MS
4400.000	15.765	19.757	4295.613	17.969	0.000	16.521	0.000	6.348	0.000	0.000	17.955	16.314	130.076	MWD+IFR1+MS
4500.000	15.765	19.757	4391.852	18.347	0.000	16.910	0.000	6.496	0.000	0.000	18.319	16.704	130.254	MWD+IFR1+MS
4600.000	15.765	19.757	4488.090	18.726	0.000	17.300	0.000	6.647	0.000	0.000	18.684	17.093	130.428	MWD+IFR1+MS
4700.000	15.765	19.757	4584.329	19.106	0.000	17.689	0.000	6.799	0.000	0.000	19.050	17.483	130.599	MWD+IFR1+MS
4800.000	15.765	19.757	4680.567	19.487	0.000	18.079	0.000	6.952	0.000	0.000	19.417	17.873	130.765	MWD+IFR1+MS
4900.000	15.765	19.757	4776.806	19.869	0.000	18.469	0.000	7.107	0.000	0.000	19.786	18.264	130.927	MWD+IFR1+MS
5000.000	15.765	19.757	4873.044	20.252	0.000	18.859	0.000	7.264	0.000	0.000	20.155	18.654	131.086	MWD+IFR1+MS
5100.000	15.765	19.757	4969.283	20.637	0.000	19.249	0.000	7.422	0.000	0.000	20.525	19.044	131.241	MWD+IFR1+MS
5200.000	15.765	19.757	5065.521	21.021	0.000	19.640	0.000	7.582	0.000	0.000	20.896	19.435	131.392	MWD+IFR1+MS
5300.000	15.765	19.757	5161.760	21.407	0.000	20.030	0.000	7.743	0.000	0.000	21.268	19.825	131.539	MWD+IFR1+MS
5400.000	15.765	19.757	5257.998	21.794	0.000	20.421	0.000	7.906	0.000	0.000	21.641	20.216	131.683	MWD+IFR1+MS
5500.000	15.765	19.757	5354.237	22.181	0.000	20.811	0.000	8.071	0.000	0.000	22.014	20.607	131.823	MWD+IFR1+MS
5600.000	15.765	19.757	5450.476	22.569	0.000	21.202	0.000	8.237	0.000	0.000	22.388	20.998	131.959	MWD+IFR1+MS
5700.000	15.765	19.757	5546.714	22.957	0.000	21.593	0.000	8.405	0.000	0.000	22.763	21.389	132.092	MWD+IFR1+MS
5800.000	15.765	19.757	5642.953	23.347	0.000	21.984	0.000	8.575	0.000	0.000	23.138	21.780	132.220	MWD+IFR1+MS
5900.000	15.765	19.757	5739.191	23.736	0.000	22.375	0.000	8.746	0.000	0.000	23.514	22.171	132.345	MWD+IFR1+MS
6000.000	15.765	19.757	5835.430	24.127	0.000	22.765	0.000	8.919	0.000	0.000	23.891	22.563	132.467	MWD+IFR1+MS
6089.613	15.765	19.757	5921.672	24.476	0.000	23.114	0.000	9.076	0.000	0.000	24.227	22.913	132.531	MWD+IFR1+MS
6100.000	15.557	19.757	5931.673	24.521	0.000	23.154	0.000	9.094	0.000	0.000	24.265	22.953	132.520	MWD+IFR1+MS

6200.000	13.557	19.757	6028.458	24.967	0.000	23.536	0.000	9.272	0.000	0.000	24.660	23.339	132.202	MWD+IFR1+MS
6300.000	11.557	19.757	6126.061	25.450	0.000	23.916	0.000	9.454	0.000	0.000	25.125	23.719	131.481	MWD+IFR1+MS
6400.000	9.557	19.757	6224.364	25.894	0.000	24.290	0.000	9.626	0.000	0.000	25.584	24.091	130.842	MWD+IFR1+MS
6500.000	7.557	19.757	6323.245	26.297	0.000	24.655	0.000	9.788	0.000	0.000	26.034	24.456	130.279	MWD+IFR1+MS
6600.000	5.557	19.757	6422.586	26.659	0.000	25.013	0.000	9.942	0.000	0.000	26.475	24.812	129.788	MWD+IFR1+MS
6700.000	3.557	19.757	6522.265	26.981	0.000	25.362	0.000	10.089	0.000	0.000	26.906	25.159	129.365	MWD+IFR1+MS
6800.000	1.557	19.757	6622.161	27.262	0.000	25.703	0.000	10.231	0.000	0.000	27.327	25.498	129.004	MWD+IFR1+MS
6877.849	0.000	0.000	6700.000	26.905	0.000	26.496	0.000	10.338	0.000	0.000	27.612	25.758	128.619	MWD+IFR1+MS
6900.000	0.000	0.000	6722.151	26.975	0.000	26.566	0.000	10.368	0.000	0.000	27.679	25.831	128.600	MWD+IFR1+MS
7000.000	0.000	0.000	6822.151	27.290	0.000	26.884	0.000	10.506	0.000	0.000	27.987	26.159	128.576	MWD+IFR1+MS
7100.000	0.000	0.000	6922.151	27.611	0.000	27.208	0.000	10.647	0.000	0.000	28.303	26.488	128.581	MWD+IFR1+MS
7200.000	0.000	0.000	7022.151	27.933	0.000	27.533	0.000	10.791	0.000	0.000	28.620	26.818	128.587	MWD+IFR1+MS
7300.000	0.000	0.000	7122.151	28.256	0.000	27.859	0.000	10.938	0.000	0.000	28.939	27.148	128.592	MWD+IFR1+MS
7400.000	0.000	0.000	7222.151	28.579	0.000	28.185	0.000	11.087	0.000	0.000	29.258	27.479	128.597	MWD+IFR1+MS
7500.000	0.000	0.000	7322.151	28.903	0.000	28.512	0.000	11.240	0.000	0.000	29.578	27.811	128.602	MWD+IFR1+MS
7600.000	0.000	0.000	7422.151	29.228	0.000	28.840	0.000	11.396	0.000	0.000	29.899	28.144	128.608	MWD+IFR1+MS
7700.000	0.000	0.000	7522.151	29.554	0.000	29.169	0.000	11.555	0.000	0.000	30.221	28.477	128.613	MWD+IFR1+MS
7800.000	0.000	0.000	7622.151	29.881	0.000	29.498	0.000	11.717	0.000	0.000	30.544	28.810	128.618	MWD+IFR1+MS
7900.000	0.000	0.000	7722.151	30.208	0.000	29.828	0.000	11.882	0.000	0.000	30.868	29.145	128.623	MWD+IFR1+MS
8000.000	0.000	0.000	7822.151	30.536	0.000	30.158	0.000	12.050	0.000	0.000	31.192	29.480	128.628	MWD+IFR1+MS
8100.000	0.000	0.000	7922.151	30.865	0.000	30.490	0.000	12.222	0.000	0.000	31.517	29.815	128.632	MWD+IFR1+MS
8200.000	0.000	0.000	8022.151	31.194	0.000	30.822	0.000	12.396	0.000	0.000	31.843	30.151	128.637	MWD+IFR1+MS
8300.000	0.000	0.000	8122.151	31.524	0.000	31.154	0.000	12.574	0.000	0.000	32.169	30.487	128.642	MWD+IFR1+MS
8400.000	0.000	0.000	8222.151	31.855	0.000	31.487	0.000	12.754	0.000	0.000	32.496	30.824	128.647	MWD+IFR1+MS
8500.000	0.000	0.000	8322.151	32.186	0.000	31.821	0.000	12.938	0.000	0.000	32.824	31.162	128.652	MWD+IFR1+MS
8600.000	0.000	0.000	8422.151	32.518	0.000	32.155	0.000	13.126	0.000	0.000	33.152	31.500	128.656	MWD+IFR1+MS
8700.000	0.000	0.000	8522.151	32.850	0.000	32.489	0.000	13.316	0.000	0.000	33.481	31.838	128.661	MWD+IFR1+MS
8800.000	0.000	0.000	8622.151	33.183	0.000	32.824	0.000	13.509	0.000	0.000	33.811	32.177	128.665	MWD+IFR1+MS
8900.000	0.000	0.000	8722.151	33.516	0.000	33.160	0.000	13.706	0.000	0.000	34.141	32.516	128.670	MWD+IFR1+MS
9000.000	0.000	0.000	8822.151	33.850	0.000	33.496	0.000	13.906	0.000	0.000	34.472	32.856	128.675	MWD+IFR1+MS
9100.000	0.000	0.000	8922.151	34.185	0.000	33.833	0.000	14.109	0.000	0.000	34.803	33.196	128.679	MWD+IFR1+MS
9200.000	0.000	0.000	9022.151	34.519	0.000	34.170	0.000	14.316	0.000	0.000	35.135	33.536	128.683	MWD+IFR1+MS
9300.000	0.000	0.000	9122.151	34.855	0.000	34.507	0.000	14.525	0.000	0.000	35.468	33.877	128.688	MWD+IFR1+MS

9400.000	0.000	0.000	9222.151	35.191	0.000	34.845	0.000	14.738	0.000	0.000	35.800	34.218	128.692	MWD+IFR1+MS
9500.000	0.000	0.000	9322.151	35.527	0.000	35.183	0.000	14.954	0.000	0.000	36.134	34.560	128.696	MWD+IFR1+MS
9600.000	0.000	0.000	9422.151	35.864	0.000	35.522	0.000	15.174	0.000	0.000	36.468	34.901	128.701	MWD+IFR1+MS
9700.000	0.000	0.000	9522.151	36.201	0.000	35.861	0.000	15.396	0.000	0.000	36.802	35.244	128.705	MWD+IFR1+MS
9800.000	0.000	0.000	9622.151	36.538	0.000	36.200	0.000	15.622	0.000	0.000	37.137	35.586	128.709	MWD+IFR1+MS
9900.000	0.000	0.000	9722.151	36.876	0.000	36.540	0.000	15.851	0.000	0.000	37.472	35.929	128.713	MWD+IFR1+MS
10000.000	0.000	0.000	9822.151	37.214	0.000	36.880	0.000	16.084	0.000	0.000	37.808	36.272	128.717	MWD+IFR1+MS
10100.000	0.000	0.000	9922.151	37.553	0.000	37.221	0.000	16.319	0.000	0.000	38.144	36.615	128.721	MWD+IFR1+MS
10194.649	0.000	0.000	10016.800	37.873	0.000	37.543	0.000	16.546	0.000	0.000	38.461	36.941	128.721	MWD+IFR1+MS
10200.000	0.428	179.722	10022.151	37.849	0.000	37.567	-0.000	16.558	0.000	0.000	38.478	36.958	128.724	MWD+IFR1+MS
10300.000	8.428	179.722	10121.771	37.500	0.000	37.866	-0.000	16.806	0.000	0.000	38.973	37.352	123.711	MWD+IFR1+MS
10400.000	16.428	179.722	10219.349	37.394	0.000	38.143	-0.000	17.144	0.000	0.000	40.092	37.806	112.018	MWD+IFR1+MS
10500.000	24.428	179.722	10312.984	36.754	0.000	38.392	-0.000	17.650	0.000	0.000	41.160	38.123	106.730	MWD+IFR1+MS
10600.000	32.428	179.722	10400.854	35.665	0.000	38.611	-0.000	18.382	0.000	0.000	42.088	38.372	104.088	MWD+IFR1+MS
10700.000	40.428	179.722	10481.249	34.240	0.000	38.798	-0.000	19.365	0.000	0.000	42.845	38.571	102.680	MWD+IFR1+MS
10800.000	48.428	179.722	10552.604	32.629	0.000	38.951	-0.000	20.592	0.000	0.000	43.426	38.729	101.949	MWD+IFR1+MS
10900.000	56.428	179.722	10613.530	31.017	0.000	39.073	-0.000	22.031	0.000	0.000	43.837	38.847	101.636	MWD+IFR1+MS
11000.000	64.428	179.722	10662.842	29.626	0.000	39.162	-0.000	23.630	0.000	0.000	44.098	38.929	101.601	MWD+IFR1+MS
11100.000	72.428	179.722	10699.579	28.690	0.000	39.219	-0.000	25.331	0.000	0.000	44.239	38.976	101.747	MWD+IFR1+MS
11200.000	80.428	179.722	10723.026	28.417	0.000	39.245	-0.000	27.072	0.000	0.000	44.294	38.990	101.981	MWD+IFR1+MS
11300.000	88.428	179.722	10732.728	28.931	0.000	39.240	-0.000	28.795	0.000	0.000	44.307	38.975	102.204	MWD+IFR1+MS
11319.649	90.000	179.722	10732.997	28.853	0.000	39.234	-0.000	28.853	0.000	0.000	44.309	38.968	102.231	MWD+IFR1+MS
11400.000	90.000	179.722	10732.997	29.031	0.000	39.215	-0.000	29.031	0.000	0.000	44.315	38.941	102.355	MWD+IFR1+MS
11500.000	90.000	179.722	10732.997	29.256	0.000	39.208	-0.000	29.256	0.000	0.000	44.324	38.925	102.544	MWD+IFR1+MS
11600.000	90.000	179.722	10732.997	29.502	0.000	39.217	-0.000	29.502	0.000	0.000	44.334	38.924	102.765	MWD+IFR1+MS
11700.000	90.000	179.722	10732.997	29.766	0.000	39.241	-0.000	29.766	0.000	0.000	44.346	38.937	103.016	MWD+IFR1+MS
11800.000	90.000	179.722	10732.997	30.049	0.000	39.280	-0.000	30.049	0.000	0.000	44.359	38.963	103.299	MWD+IFR1+MS
11900.000	90.000	179.722	10732.997	30.349	0.000	39.334	-0.000	30.349	0.000	0.000	44.373	39.004	103.617	MWD+IFR1+MS
12000.000	90.000	179.722	10732.997	30.666	0.000	39.402	-0.000	30.666	0.000	0.000	44.389	39.059	103.972	MWD+IFR1+MS
12046.441	90.000	179.722	10732.997	30.817	0.000	39.436	-0.000	30.817	0.000	0.000	44.397	39.086	104.144	MWD+IFR1+MS
12100.000	90.000	179.722	10732.997	30.996	0.000	39.480	-0.000	30.996	0.000	0.000	44.407	39.121	104.353	MWD+IFR1+MS
12200.000	90.000	179.722	10732.997	31.343	0.000	39.576	-0.000	31.343	0.000	0.000	44.427	39.201	104.786	MWD+IFR1+MS
12300.000	90.000	179.722	10732.997	31.709	0.000	39.688	-0.000	31.709	0.000	0.000	44.449	39.295	105.272	MWD+IFR1+MS

12400.000	90.000	179.722	10732.997	32.090	0.000	39.815	-0.000	32.090	0.000	0.000	44.473	39.403	105.810	MWD+IFR1+MS
12500.000	90.000	179.722	10732.997	32.485	0.000	39.956	-0.000	32.485	0.000	0.000	44.499	39.522	106.405	MWD+IFR1+MS
12600.000	90.000	179.722	10732.997	32.894	0.000	40.111	-0.000	32.894	0.000	0.000	44.529	39.654	107.066	MWD+IFR1+MS
12700.000	90.000	179.722	10732.997	33.317	0.000	40.280	-0.000	33.317	0.000	0.000	44.561	39.797	107.799	MWD+IFR1+MS
12800.000	90.000	179.722	10732.997	33.752	0.000	40.463	-0.000	33.752	0.000	0.000	44.597	39.951	108.613	MWD+IFR1+MS
12900.000	90.000	179.722	10732.997	34.201	0.000	40.660	-0.000	34.201	0.000	0.000	44.637	40.115	109.518	MWD+IFR1+MS
13000.000	90.000	179.722	10732.997	34.661	0.000	40.869	-0.000	34.661	0.000	0.000	44.681	40.289	110.525	MWD+IFR1+MS
13100.000	90.000	179.722	10732.997	35.132	0.000	41.092	-0.000	35.132	0.000	0.000	44.730	40.472	111.648	MWD+IFR1+MS
13200.000	90.000	179.722	10732.997	35.615	0.000	41.329	-0.000	35.615	0.000	0.000	44.784	40.663	112.902	MWD+IFR1+MS
13300.000	90.000	179.722	10732.997	36.108	0.000	41.577	-0.000	36.108	0.000	0.000	44.846	40.860	114.301	MWD+IFR1+MS
13400.000	90.000	179.722	10732.997	36.611	0.000	41.839	-0.000	36.611	0.000	0.000	44.915	41.063	115.862	MWD+IFR1+MS
13500.000	90.000	179.722	10732.997	37.124	0.000	42.112	-0.000	37.124	0.000	0.000	44.993	41.270	117.602	MWD+IFR1+MS
13600.000	90.000	179.722	10732.997	37.647	0.000	42.398	-0.000	37.647	0.000	0.000	45.082	41.479	119.535	MWD+IFR1+MS
13700.000	90.000	179.722	10732.997	38.179	0.000	42.695	-0.000	38.179	0.000	0.000	45.182	41.688	121.672	MWD+IFR1+MS
13800.000	90.000	179.722	10732.997	38.719	0.000	43.005	-0.000	38.719	0.000	0.000	45.297	41.895	124.016	MWD+IFR1+MS
13900.000	90.000	179.722	10732.997	39.267	0.000	43.325	-0.000	39.267	0.000	0.000	45.428	42.098	126.561	MWD+IFR1+MS
14000.000	90.000	179.722	10732.997	39.823	0.000	43.656	-0.000	39.823	0.000	0.000	45.577	42.295	129.285	MWD+IFR1+MS
14100.000	90.000	179.722	10732.997	40.387	0.000	43.999	-0.000	40.387	0.000	0.000	45.747	42.483	132.153	MWD+IFR1+MS
14200.000	90.000	179.722	10732.997	40.958	0.000	44.352	-0.000	40.958	0.000	0.000	45.938	42.660	-44.888	MWD+IFR1+MS
14300.000	90.000	179.722	10732.997	41.536	0.000	44.715	-0.000	41.536	0.000	0.000	46.152	42.826	-41.900	MWD+IFR1+MS
14400.000	90.000	179.722	10732.997	42.121	0.000	45.088	-0.000	42.121	0.000	0.000	46.389	42.978	-38.950	MWD+IFR1+MS
14500.000	90.000	179.722	10732.997	42.713	0.000	45.471	-0.000	42.713	0.000	0.000	46.650	43.117	-36.098	MWD+IFR1+MS
14600.000	90.000	179.722	10732.997	43.310	0.000	45.864	-0.000	43.310	0.000	0.000	46.934	43.244	-33.394	MWD+IFR1+MS
14700.000	90.000	179.722	10732.997	43.913	0.000	46.266	-0.000	43.913	0.000	0.000	47.240	43.359	-30.872	MWD+IFR1+MS
14800.000	90.000	179.722	10732.997	44.522	0.000	46.677	-0.000	44.522	0.000	0.000	47.566	43.463	-28.550	MWD+IFR1+MS
14900.000	90.000	179.722	10732.997	45.136	0.000	47.097	-0.000	45.136	0.000	0.000	47.911	43.557	-26.434	MWD+IFR1+MS
15000.000	90.000	179.722	10732.997	45.756	0.000	47.525	-0.000	45.756	0.000	0.000	48.274	43.643	-24.517	MWD+IFR1+MS
15100.000	90.000	179.722	10732.997	46.381	0.000	47.962	-0.000	46.381	0.000	0.000	48.654	43.721	-22.789	MWD+IFR1+MS
15200.000	90.000	179.722	10732.997	47.010	0.000	48.407	-0.000	47.010	0.000	0.000	49.048	43.794	-21.235	MWD+IFR1+MS
15300.000	90.000	179.722	10732.997	47.644	0.000	48.861	-0.000	47.644	0.000	0.000	49.456	43.861	-19.837	MWD+IFR1+MS
15400.000	90.000	179.722	10732.997	48.282	0.000	49.321	-0.000	48.282	0.000	0.000	49.876	43.924	-18.580	MWD+IFR1+MS
15500.000	90.000	179.722	10732.997	48.925	0.000	49.790	-0.000	48.925	0.000	0.000	50.309	43.983	-17.448	MWD+IFR1+MS
15600.000	90.000	179.722	10732.997	49.572	0.000	50.265	-0.000	49.572	0.000	0.000	50.753	44.038	-16.426	MWD+IFR1+MS

15700.000	90.000	179.722	10732.997	50.223	0.000	50.748	-0.000	50.223	0.000	0.000	51.206	44.092	-15.502	MWD+IFR1+MS
15800.000	90.000	179.722	10732.997	50.877	0.000	51.237	-0.000	50.877	0.000	0.000	51.670	44.142	-14.664	MWD+IFR1+MS
15900.000	90.000	179.722	10732.997	51.535	0.000	51.734	-0.000	51.535	0.000	0.000	52.143	44.191	-13.902	MWD+IFR1+MS
16000.000	90.000	179.722	10732.997	52.197	0.000	52.236	-0.000	52.197	0.000	0.000	52.624	44.239	-13.207	MWD+IFR1+MS
16100.000	90.000	179.722	10732.997	52.862	0.000	52.746	-0.000	52.862	0.000	0.000	53.114	44.285	-12.572	MWD+IFR1+MS
16200.000	90.000	179.722	10732.997	53.530	0.000	53.261	-0.000	53.530	0.000	0.000	53.611	44.330	-11.990	MWD+IFR1+MS
16300.000	90.000	179.722	10732.997	54.201	0.000	53.782	-0.000	54.201	0.000	0.000	54.116	44.374	-11.455	MWD+IFR1+MS
16400.000	90.000	179.722	10732.997	54.876	0.000	54.309	-0.000	54.876	0.000	0.000	54.628	44.418	-10.962	MWD+IFR1+MS
16500.000	90.000	179.722	10732.997	55.553	0.000	54.842	-0.000	55.553	0.000	0.000	55.147	44.461	-10.506	MWD+IFR1+MS
16600.000	90.000	179.722	10732.997	56.233	0.000	55.380	-0.000	56.233	0.000	0.000	55.672	44.503	-10.084	MWD+IFR1+MS
16700.000	90.000	179.722	10732.997	56.916	0.000	55.923	-0.000	56.916	0.000	0.000	56.203	44.545	-9.693	MWD+IFR1+MS
16800.000	90.000	179.722	10732.997	57.601	0.000	56.471	-0.000	57.601	0.000	0.000	56.741	44.587	-9.329	MWD+IFR1+MS
16900.000	90.000	179.722	10732.997	58.289	0.000	57.025	-0.000	58.289	0.000	0.000	57.284	44.629	-8.990	MWD+IFR1+MS
17000.000	90.000	179.722	10732.997	58.980	0.000	57.583	-0.000	58.980	0.000	0.000	57.832	44.670	-8.673	MWD+IFR1+MS
17100.000	90.000	179.722	10732.997	59.672	0.000	58.146	-0.000	59.672	0.000	0.000	58.387	44.712	-8.377	MWD+IFR1+MS
17200.000	90.000	179.722	10732.997	60.367	0.000	58.714	-0.000	60.367	0.000	0.000	58.946	44.753	-8.099	MWD+IFR1+MS
17300.000	90.000	179.722	10732.997	61.064	0.000	59.286	-0.000	61.064	0.000	0.000	59.510	44.795	-7.839	MWD+IFR1+MS
17400.000	90.000	179.722	10732.997	61.763	0.000	59.863	-0.000	61.763	0.000	0.000	60.079	44.836	-7.594	MWD+IFR1+MS
17500.000	90.000	179.722	10732.997	62.465	0.000	60.443	-0.000	62.465	0.000	0.000	60.652	44.878	-7.363	MWD+IFR1+MS
17600.000	90.000	179.722	10732.997	63.168	0.000	61.028	-0.000	63.168	0.000	0.000	61.230	44.920	-7.145	MWD+IFR1+MS
17700.000	90.000	179.722	10732.997	63.873	0.000	61.617	-0.000	63.873	0.000	0.000	61.813	44.962	-6.939	MWD+IFR1+MS
17800.000	90.000	179.722	10732.997	64.580	0.000	62.209	-0.000	64.580	0.000	0.000	62.399	45.004	-6.744	MWD+IFR1+MS
17900.000	90.000	179.722	10732.997	65.288	0.000	62.805	-0.000	65.288	0.000	0.000	62.990	45.047	-6.560	MWD+IFR1+MS
18000.000	90.000	179.722	10732.997	65.999	0.000	63.405	-0.000	65.999	0.000	0.000	63.584	45.090	-6.385	MWD+IFR1+MS
18100.000	90.000	179.722	10732.997	66.711	0.000	64.009	-0.000	66.711	0.000	0.000	64.183	45.133	-6.219	MWD+IFR1+MS
18200.000	90.000	179.722	10732.997	67.425	0.000	64.616	-0.000	67.425	0.000	0.000	64.785	45.176	-6.061	MWD+IFR1+MS
18300.000	90.000	179.722	10732.997	68.140	0.000	65.226	-0.000	68.140	0.000	0.000	65.390	45.220	-5.911	MWD+IFR1+MS
18400.000	90.000	179.722	10732.997	68.857	0.000	65.839	-0.000	68.857	0.000	0.000	65.999	45.264	-5.768	MWD+IFR1+MS
18500.000	90.000	179.722	10732.997	69.575	0.000	66.456	-0.000	69.575	0.000	0.000	66.612	45.308	-5.632	MWD+IFR1+MS
18600.000	90.000	179.722	10732.997	70.295	0.000	67.075	-0.000	70.295	0.000	0.000	67.227	45.352	-5.501	MWD+IFR1+MS
18700.000	90.000	179.722	10732.997	71.016	0.000	67.698	-0.000	71.016	0.000	0.000	67.846	45.397	-5.377	MWD+IFR1+MS
18800.000	90.000	179.722	10732.997	71.738	0.000	68.324	-0.000	71.738	0.000	0.000	68.468	45.443	-5.258	MWD+IFR1+MS
18900.000	90.000	179.722	10732.997	72.462	0.000	68.952	-0.000	72.462	0.000	0.000	69.093	45.489	-5.144	MWD+IFR1+MS

19000.000	90.000	179.722	10732.997	73.187	0.000	69.583	-0.000	73.187	0.000	0.000	69.721	45.535	-5.035	MWD+IFR1+MS
19100.000	90.000	179.722	10732.997	73.913	0.000	70.217	-0.000	73.913	0.000	0.000	70.351	45.581	-4.930	MWD+IFR1+MS
19200.000	90.000	179.722	10732.997	74.640	0.000	70.853	-0.000	74.640	0.000	0.000	70.985	45.628	-4.830	MWD+IFR1+MS
19300.000	90.000	179.722	10732.997	75.369	0.000	71.492	-0.000	75.369	0.000	0.000	71.621	45.676	-4.733	MWD+IFR1+MS
19400.000	90.000	179.722	10732.997	76.098	0.000	72.134	-0.000	76.098	0.000	0.000	72.259	45.723	-4.641	MWD+IFR1+MS
19500.000	90.000	179.722	10732.997	76.829	0.000	72.778	-0.000	76.829	0.000	0.000	72.900	45.771	-4.552	MWD+IFR1+MS
19600.000	90.000	179.722	10732.997	77.561	0.000	73.424	-0.000	77.561	0.000	0.000	73.544	45.820	-4.466	MWD+IFR1+MS
19700.000	90.000	179.722	10732.997	78.293	0.000	74.072	-0.000	78.293	0.000	0.000	74.190	45.869	-4.383	MWD+IFR1+MS
19800.000	90.000	179.722	10732.997	79.027	0.000	74.723	-0.000	79.027	0.000	0.000	74.838	45.918	-4.304	MWD+IFR1+MS
19900.000	90.000	179.722	10732.997	79.762	0.000	75.376	-0.000	79.762	0.000	0.000	75.488	45.968	-4.227	MWD+IFR1+MS
20000.000	90.000	179.722	10732.997	80.498	0.000	76.030	-0.000	80.498	0.000	0.000	76.141	46.018	-4.153	MWD+IFR1+MS
20100.000	90.000	179.722	10732.997	81.234	0.000	76.687	-0.000	81.234	0.000	0.000	76.796	46.069	-4.082	MWD+IFR1+MS
20200.000	90.000	179.722	10732.997	81.972	0.000	77.346	-0.000	81.972	0.000	0.000	77.452	46.120	-4.013	MWD+IFR1+MS
20300.000	90.000	179.722	10732.997	82.710	0.000	78.007	-0.000	82.710	0.000	0.000	78.111	46.172	-3.946	MWD+IFR1+MS
20400.000	90.000	179.722	10732.997	83.449	0.000	78.670	-0.000	83.449	0.000	0.000	78.772	46.224	-3.882	MWD+IFR1+MS
20500.000	90.000	179.722	10732.997	84.190	0.000	79.335	-0.000	84.190	0.000	0.000	79.435	46.276	-3.819	MWD+IFR1+MS
20600.000	90.000	179.722	10732.997	84.930	0.000	80.001	-0.000	84.930	0.000	0.000	80.099	46.329	-3.759	MWD+IFR1+MS
20700.000	90.000	179.722	10732.997	85.672	0.000	80.669	-0.000	85.672	0.000	0.000	80.766	46.382	-3.701	MWD+IFR1+MS
20800.000	90.000	179.722	10732.997	86.414	0.000	81.339	-0.000	86.414	0.000	0.000	81.434	46.436	-3.644	MWD+IFR1+MS
20900.000	90.000	179.722	10732.997	87.158	0.000	82.011	-0.000	87.158	0.000	0.000	82.104	46.490	-3.589	MWD+IFR1+MS
21000.000	90.000	179.722	10732.997	87.901	0.000	82.684	-0.000	87.901	0.000	0.000	82.775	46.545	-3.536	MWD+IFR1+MS
21100.000	90.000	179.722	10732.997	88.646	0.000	83.359	-0.000	88.646	0.000	0.000	83.449	46.600	-3.485	MWD+IFR1+MS
21200.000	90.000	179.722	10732.997	89.391	0.000	84.035	-0.000	89.391	0.000	0.000	84.123	46.656	-3.435	MWD+IFR1+MS
21300.000	90.000	179.722	10732.997	90.137	0.000	84.713	-0.000	90.137	0.000	0.000	84.800	46.712	-3.386	MWD+IFR1+MS
21400.000	90.000	179.722	10732.997	90.884	0.000	85.392	-0.000	90.884	0.000	0.000	85.478	46.768	-3.339	MWD+IFR1+MS
21500.000	90.000	179.722	10732.997	91.631	0.000	86.073	-0.000	91.631	0.000	0.000	86.157	46.825	-3.293	MWD+IFR1+MS
21600.000	90.000	179.722	10732.997	92.379	0.000	86.755	-0.000	92.379	0.000	0.000	86.838	46.882	-3.249	MWD+IFR1+MS
21700.000	90.000	179.722	10732.997	93.127	0.000	87.439	-0.000	93.127	0.000	0.000	87.520	46.940	-3.205	MWD+IFR1+MS
21800.000	90.000	179.722	10732.997	93.876	0.000	88.124	-0.000	93.876	0.000	0.000	88.204	46.998	-3.163	MWD+IFR1+MS
21900.000	90.000	179.722	10732.997	94.626	0.000	88.810	-0.000	94.626	0.000	0.000	88.889	47.057	-3.122	MWD+IFR1+MS
22000.000	90.000	179.722	10732.997	95.376	0.000	89.498	-0.000	95.376	0.000	0.000	89.575	47.116	-3.082	MWD+IFR1+MS
22100.000	90.000	179.722	10732.997	96.127	0.000	90.187	-0.000	96.127	0.000	0.000	90.263	47.175	-3.043	MWD+IFR1+MS
22200.000	90.000	179.722	10732.997	96.878	0.000	90.877	-0.000	96.878	0.000	0.000	90.952	47.235	-3.006	MWD+IFR1+MS

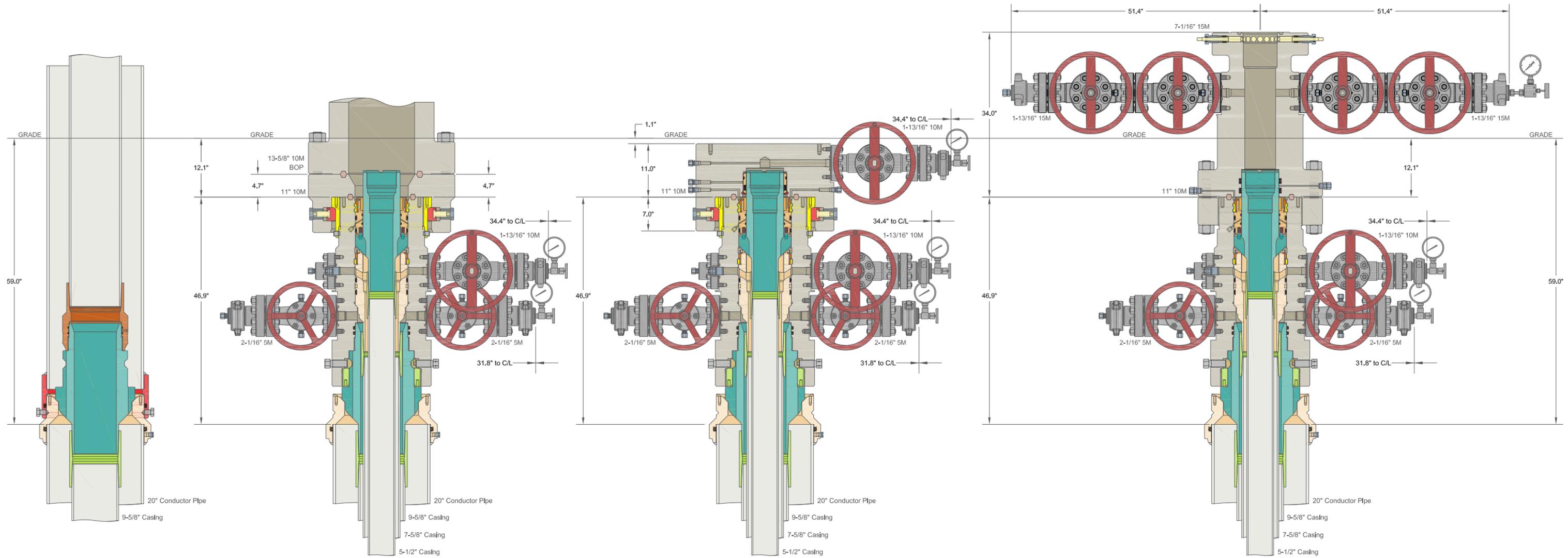
22300.000	90.000	179.722	10732.997	97.630	0.000	91.568	-0.000	97.630	0.000	0.000	91.642	47.296	-2.969	MWD+IFR1+MS
22400.000	90.000	179.722	10732.997	98.382	0.000	92.260	-0.000	98.382	0.000	0.000	92.333	47.357	-2.933	MWD+IFR1+MS
22500.000	90.000	179.722	10732.997	99.135	0.000	92.954	-0.000	99.135	0.000	0.000	93.026	47.418	-2.898	MWD+IFR1+MS
22600.000	90.000	179.722	10732.997	99.889	0.000	93.648	-0.000	99.889	0.000	0.000	93.719	47.480	-2.864	MWD+IFR1+MS
22700.000	90.000	179.722	10732.997	100.642	0.000	94.344	-0.000	100.642	0.000	0.000	94.414	47.542	-2.831	MWD+IFR1+MS
22800.000	90.000	179.722	10732.997	101.397	0.000	95.041	-0.000	101.397	0.000	0.000	95.110	47.604	-2.798	MWD+IFR1+MS
22900.000	90.000	179.722	10732.997	102.151	0.000	95.739	-0.000	102.151	0.000	0.000	95.807	47.668	-2.766	MWD+IFR1+MS
23000.000	90.000	179.722	10732.997	102.907	0.000	96.438	-0.000	102.907	0.000	0.000	96.505	47.731	-2.735	MWD+IFR1+MS
23100.000	90.000	179.722	10732.997	103.662	0.000	97.138	-0.000	103.662	0.000	0.000	97.204	47.795	-2.705	MWD+IFR1+MS
23200.000	90.000	179.722	10732.997	104.418	0.000	97.839	-0.000	104.418	0.000	0.000	97.904	47.859	-2.676	MWD+IFR1+MS
23300.000	90.000	179.722	10732.997	105.175	0.000	98.541	-0.000	105.175	0.000	0.000	98.605	47.924	-2.647	MWD+IFR1+MS
23400.000	90.000	179.722	10732.997	105.932	0.000	99.243	-0.000	105.932	0.000	0.000	99.307	47.989	-2.619	MWD+IFR1+MS
23500.000	90.000	179.722	10732.997	106.689	0.000	99.947	-0.000	106.689	0.000	0.000	100.010	48.055	-2.591	MWD+IFR1+MS
23600.000	90.000	179.722	10732.997	107.447	0.000	100.652	-0.000	107.447	0.000	0.000	100.714	48.121	-2.564	MWD+IFR1+MS
23700.000	90.000	179.722	10732.997	108.205	0.000	101.357	-0.000	108.205	0.000	0.000	101.418	48.187	-2.538	MWD+IFR1+MS
23800.000	90.000	179.722	10732.997	108.963	0.000	102.064	-0.000	108.963	0.000	0.000	102.124	48.254	-2.512	MWD+IFR1+MS
23900.000	90.000	179.722	10732.997	109.722	0.000	102.771	-0.000	109.722	0.000	0.000	102.830	48.322	-2.487	MWD+IFR1+MS
24000.000	90.000	179.722	10732.997	110.481	0.000	103.479	-0.000	110.481	0.000	0.000	103.538	48.390	-2.462	MWD+IFR1+MS
24100.000	90.000	179.722	10732.997	111.241	0.000	104.188	-0.000	111.241	0.000	0.000	104.246	48.458	-2.438	MWD+IFR1+MS
24200.000	90.000	179.722	10732.997	112.001	0.000	104.897	-0.000	112.001	0.000	0.000	104.955	48.526	-2.415	MWD+IFR1+MS
24300.000	90.000	179.722	10732.997	112.761	0.000	105.608	-0.000	112.761	0.000	0.000	105.664	48.595	-2.391	MWD+IFR1+MS
24400.000	90.000	179.722	10732.997	113.521	0.000	106.319	-0.000	113.521	0.000	0.000	106.375	48.665	-2.369	MWD+IFR1+MS
24500.000	90.000	179.722	10732.997	114.282	0.000	107.031	-0.000	114.282	0.000	0.000	107.086	48.735	-2.347	MWD+IFR1+MS
24600.000	90.000	179.722	10732.997	115.044	0.000	107.744	-0.000	115.044	0.000	0.000	107.798	48.805	-2.325	MWD+IFR1+MS
24700.000	90.000	179.722	10732.997	115.805	0.000	108.457	-0.000	115.805	0.000	0.000	108.511	48.876	-2.304	MWD+IFR1+MS
24800.000	90.000	179.722	10732.997	116.567	0.000	109.171	-0.000	116.567	0.000	0.000	109.225	48.947	-2.283	MWD+IFR1+MS
24900.000	90.000	179.722	10732.997	117.329	0.000	109.886	-0.000	117.329	0.000	0.000	109.939	49.018	-2.262	MWD+IFR1+MS
25000.000	90.000	179.722	10732.997	118.091	0.000	110.602	-0.000	118.091	0.000	0.000	110.654	49.090	-2.242	MWD+IFR1+MS
25100.000	90.000	179.722	10732.997	118.854	0.000	111.318	-0.000	118.854	0.000	0.000	111.369	49.163	-2.222	MWD+IFR1+MS
25200.000	90.000	179.722	10732.997	119.617	0.000	112.034	-0.000	119.617	0.000	0.000	112.086	49.235	-2.203	MWD+IFR1+MS
25300.000	90.000	179.722	10732.997	120.380	0.000	112.752	-0.000	120.380	0.000	0.000	112.802	49.308	-2.184	MWD+IFR1+MS
25400.000	90.000	179.722	10732.997	121.144	0.000	113.470	-0.000	121.144	0.000	0.000	113.520	49.382	-2.166	MWD+IFR1+MS
25500.000	90.000	179.722	10732.997	121.908	0.000	114.189	-0.000	121.908	0.000	0.000	114.238	49.456	-2.147	MWD+IFR1+MS

25600.000	90.000	179.722	10732.997	122.672	0.000	114.908	-0.000	122.672	0.000	0.000	114.957	49.530	-2.129	MWD+IFR1+MS
25700.000	90.000	179.722	10732.997	123.436	0.000	115.628	-0.000	123.436	0.000	0.000	115.676	49.605	-2.112	MWD+IFR1+MS
25800.000	90.000	179.722	10732.997	124.201	0.000	116.348	-0.000	124.201	0.000	0.000	116.396	49.680	-2.095	MWD+IFR1+MS
25900.000	90.000	179.722	10732.997	124.966	0.000	117.069	-0.000	124.966	0.000	0.000	117.117	49.756	-2.078	MWD+IFR1+MS
26000.000	90.000	179.722	10732.997	125.731	0.000	117.791	-0.000	125.731	0.000	0.000	117.838	49.832	-2.061	MWD+IFR1+MS
26100.000	90.000	179.722	10732.997	126.496	0.000	118.513	-0.000	126.496	0.000	0.000	118.560	49.908	-2.045	MWD+IFR1+MS
26136.013	90.000	179.722	10732.997	126.772	0.000	118.773	-0.000	126.772	0.000	0.000	118.819	49.936	-2.039	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 19 DTD South 218H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 10	11101.00	440301.40	626907.50	7546.00	RECTANGLE
SHL 16	3766.55	439066.12	627009.20	0.00	RECTANGLE
LTP 10	26037.03	424868.00	626982.30	7546.00	RECTANGLE
BHL 10	26137.10	424768.00	626982.50	7546.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack

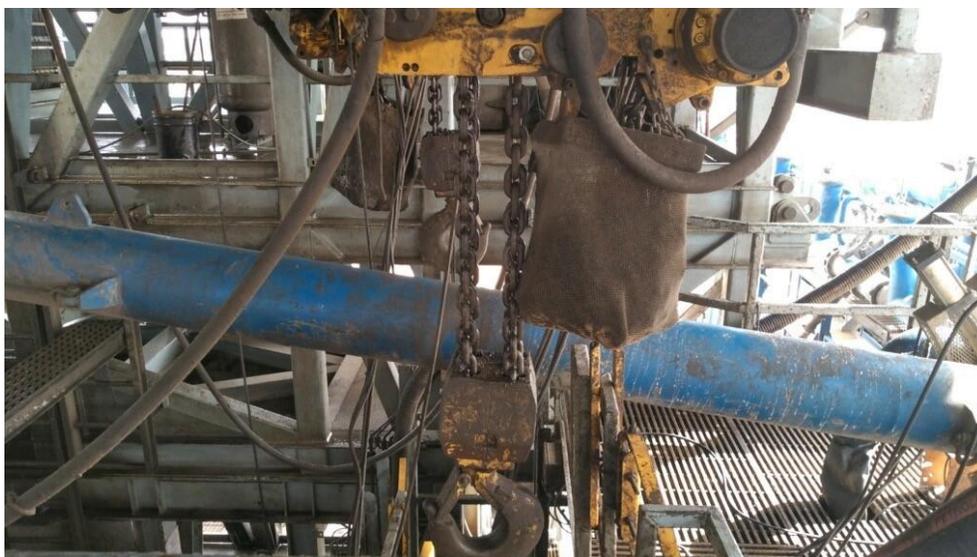


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
^a Pressure test evaluation periods shall be a minimum of five minutes. No visible leaks. The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure. ^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program. ^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. ^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually. ^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.			

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

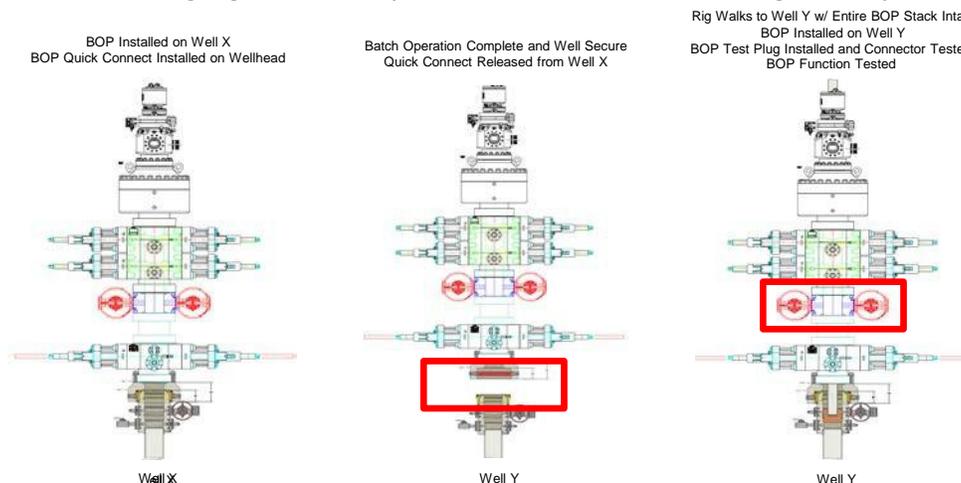
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

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.

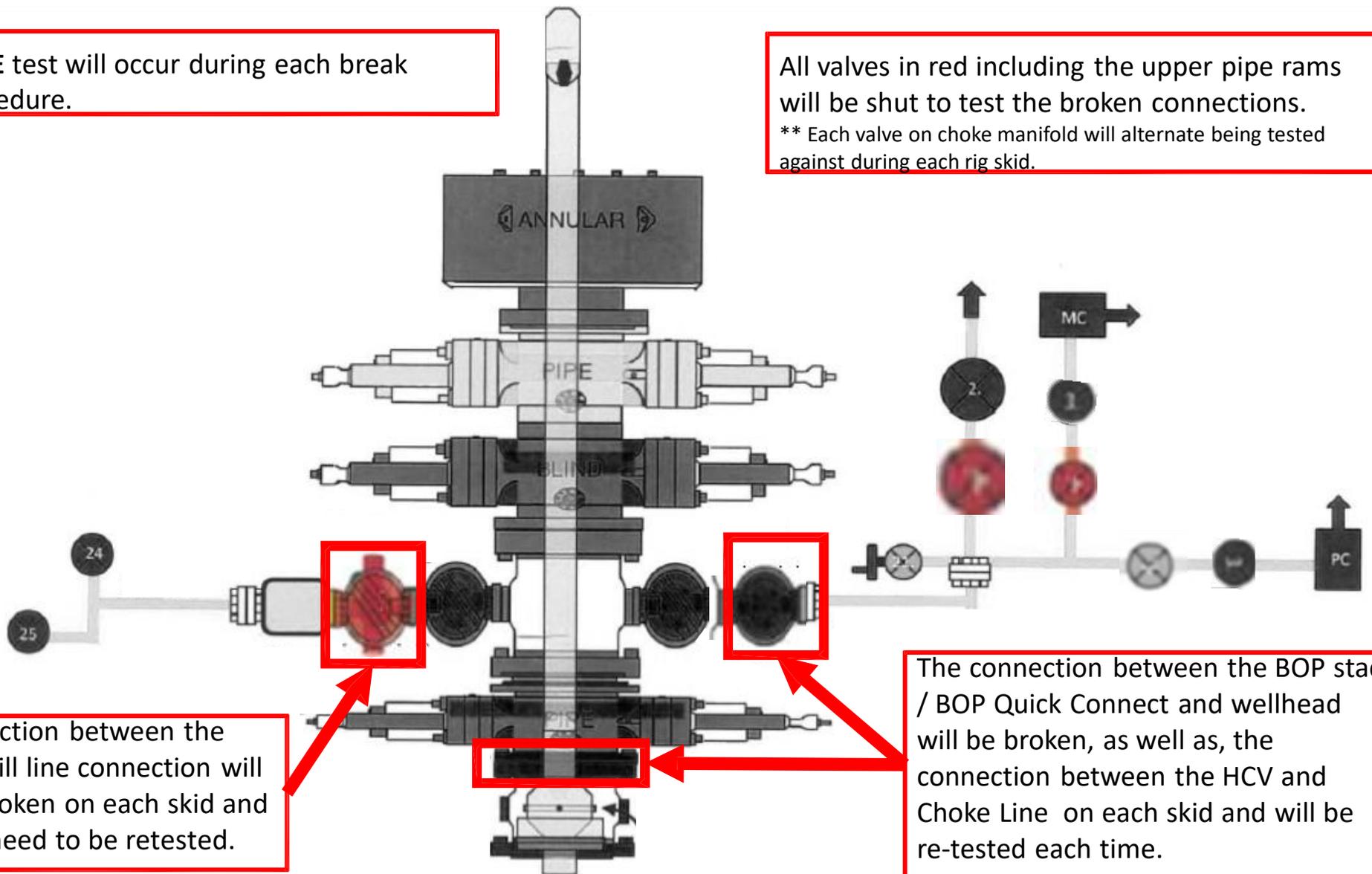
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, 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. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each skid.



The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- a. Sound alarm (alert crew)
- b. Stab crossover and full-opening safety valve and close
- c. Space out string
- d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- e. Confirm shut-in
- f. Notify toolpusher/company representative
- g. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- h. Regroup and identify forward plan
- i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time

- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

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District II
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 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 330884

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 330884
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	4/18/2024