

Well Name: POKER LAKE UNIT 19 DTD	Well Location: T24S / R30E / SEC 19 / NWNW /	County or Parish/State:
Well Number: 121H	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: 3001553763	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2781292

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

Date Sundry Submitted: 03/22/2024 Time Sundry Submitted: 03:04

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: 1309' FNL & 799' FWL of Section 19-T24S-R30E 1254' FNL & 799' FWL of Section 19-T24S-R30E FTP: 100' FSL & 330' FWL of Section 18-T24S-R30E 100' FNL & 345' FWL of Section 19-T24S-R30E LTP: 100' FSL & 330' FWL of Section 6-T24S-R30E 100' FSL & 345' FWL of Section 31-T24S-R30E BHL: 50' FNL & 330' FWL of Section 6-T24S-R30E 50' FSL & 345' FWL of Section 31-T24S-R30E Proposed total depth will change from 26649' MD; 10496' TVD (Wolfcamp) to 24760' MD; TVD 9213' (Bone Spring 2 sand). 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_121H_Sundry_Attachments_20240326103604.pdf

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Conditions of Approval

Additional

Sec19_24S_30E_NMP_Sundry_2781292_Poker_Lake_Unit_19_DTD_121H_COAs_20240404125414.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 26, 2024 10:36 AM
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: 04/04/2024
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.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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: NWNW / 1309 FNL / 799 FWL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.206603 / LONG: -103.92692 (TVD: 0 feet, MD: 0 feet)
PPP: SWSW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22537 / LONG: -103.92843 (TVD: 10496 feet, MD: 16200 feet)
PPP: SWNW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.23256 / LONG: -103.92843 (TVD: 10496 feet, MD: 18900 feet)
PPP: NWSW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22886 / LONG: -103.92843 (TVD: 10496 feet, MD: 17500 feet)
PPP: SWSW / 330 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.24015 / LONG: -103.92843 (TVD: 10496 feet, MD: 21500 feet)
PPP: SWSW / 100 FSL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.21046 / LONG: -103.928447 (TVD: 10496 feet, MD: 10900 feet)
BHL: NWNW / 50 FNL / 330 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.253809 / LONG: -103.928498 (TVD: 10496 feet, MD: 26649 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 19 DTD 121H
LOCATION:	Sec 19-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2781292** 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 **13-3/8** 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 **9-5/8** 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 13-3/8" X 9-5/8" 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 9-5/8" 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 **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

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

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Eddy County (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](mailto: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

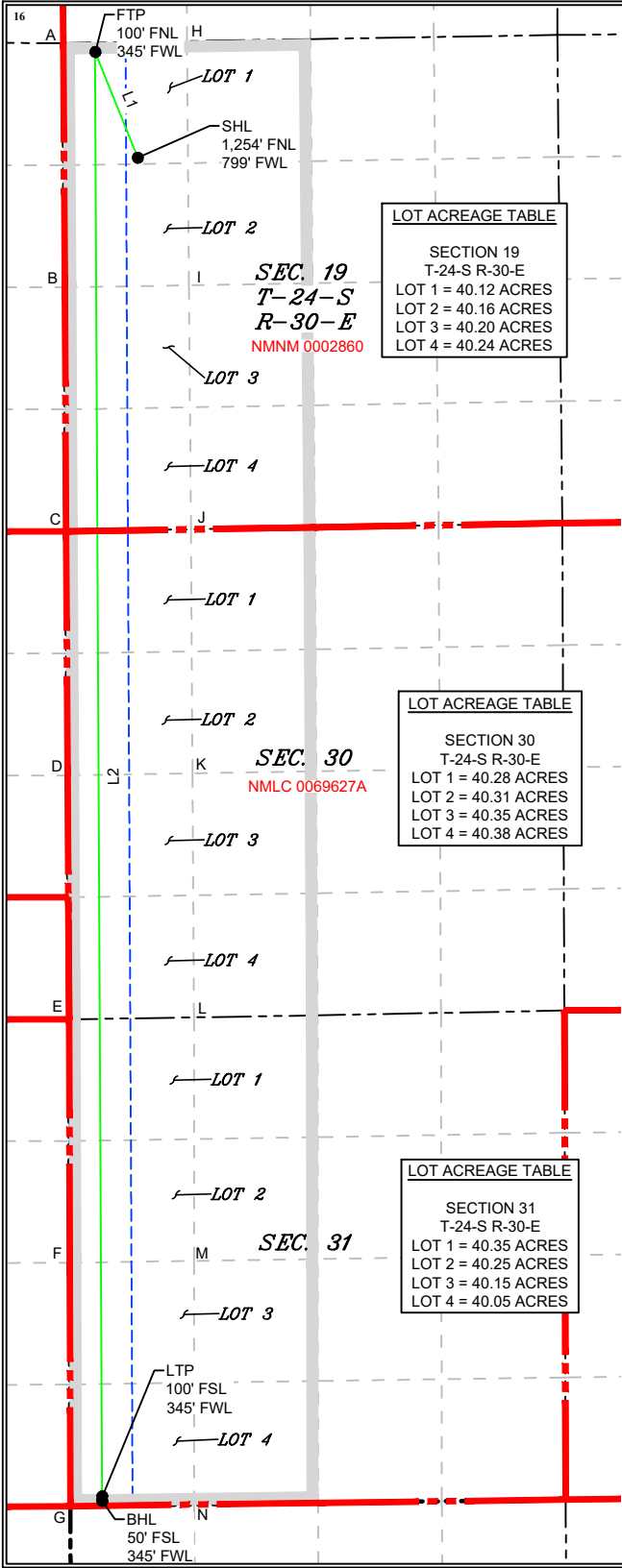
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-53763		² Pool Code 47545		³ Pool Name Nash Draw; Delaware/BS (Avalon Sand)					
⁴ Property Code 333976		⁵ Property Name POKER LAKE UNIT 19 DTD						⁶ Well Number 121H	
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC						⁹ Elevation 3,146'	
¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	19	24S	30E		1,254	NORTH	799	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	24S	30E		50	SOUTH	345	WEST	EDDY
¹² Dedicated Acres 962.84		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



LEGEND

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

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	338°05'19"	1,235.80'
L2	179°43'25"	15,708.94'

COORDINATE TABLE

SHL (NAD 83 NME) Y = 439,189.0 N X = 667,037.5 E LAT. = 32.206754 °N LONG. = 103.926921 °W	SHL (NAD 27 NME) Y = 439,129.8 N X = 625,853.8 E LAT. = 32.206630 °N LONG. = 103.926433 °W
FTP (NAD 83 NME) Y = 440,335.5 N X = 666,576.3 E LAT. = 32.209911 °N LONG. = 103.928398 °W	FTP (NAD 27 NME) Y = 440,276.3 N X = 625,392.7 E LAT. = 32.209786 °N LONG. = 103.927910 °W
LTP (NAD 83 NME) Y = 424,676.8 N X = 666,652.0 E LAT. = 32.166866 °N LONG. = 103.928344 °W	LTP (NAD 27 NME) Y = 424,617.9 N X = 625,467.9 E LAT. = 32.166742 °N LONG. = 103.927857 °W
BHL (NAD 83 NME) Y = 424,626.8 N X = 666,652.1 E LAT. = 32.166729 °N LONG. = 103.928344 °W	BHL (NAD 27 NME) Y = 424,567.9 N X = 625,468.0 E LAT. = 32.166604 °N LONG. = 103.927858 °W

CORNER COORDINATES (NAD 83 NME)

A - Y = 440,429.8 N	A - X = 666,230.7 E
B - Y = 437,782.5 N	B - X = 666,247.3 E
C - Y = 435,137.6 N	C - X = 666,262.9 E
D - Y = 432,493.2 N	D - X = 666,278.8 E
E - Y = 429,849.4 N	E - X = 666,294.7 E
F - Y = 427,210.8 N	F - X = 666,301.0 E
G - Y = 424,572.2 N	G - X = 666,307.2 E
H - Y = 440,452.1 N	H - X = 667,570.7 E
I - Y = 437,805.1 N	I - X = 667,592.7 E
J - Y = 435,160.0 N	J - X = 667,614.2 E
K - Y = 432,515.6 N	K - X = 667,630.4 E
L - Y = 429,871.1 N	L - X = 667,646.7 E
M - Y = 427,231.1 N	M - X = 667,647.6 E
N - Y = 424,590.0 N	N - X = 667,648.6 E

CORNER COORDINATES (NAD 27 NME)

A - Y = 440,370.5 N	A - X = 625,047.1 E
B - Y = 437,723.3 N	B - X = 625,063.6 E
C - Y = 435,078.4 N	C - X = 625,079.1 E
D - Y = 432,434.1 N	D - X = 625,094.9 E
E - Y = 429,790.3 N	E - X = 625,110.8 E
F - Y = 427,151.8 N	F - X = 625,117.0 E
G - Y = 424,513.3 N	G - X = 625,123.1 E
H - Y = 440,392.8 N	H - X = 626,387.1 E
I - Y = 437,745.9 N	I - X = 626,409.0 E
J - Y = 435,100.8 N	J - X = 626,430.4 E
K - Y = 432,456.5 N	K - X = 626,446.6 E
L - Y = 429,812.1 N	L - X = 626,462.8 E
M - Y = 427,172.1 N	M - X = 626,463.6 E
N - Y = 424,531.1 N	N - X = 626,464.4 E

17 OPERATOR CERTIFICATION

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

Terra Sebastian 3/20/24
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:



MARK DILLON HARP 23786
Certificate Number

DB 618.013003.05-37

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 121H
Projected TD: 24760.71' MD / 9213' TVD
SHL: 1254' FNL & 799' FWL , Section 19, T24S, R30E
BHL: 50' FSL & 345' 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	565'	Water
Top of Salt	968'	Water
Base of Salt	3161'	Water
Delaware	3355'	Water
Brushy Canyon	5853'	Water/Oil/Gas
Bone Spring	7149'	Water
1st Bone Spring	8135'	Water/Oil/Gas
2nd Bone Spring	8953'	Water/Oil/Gas
Target/Land Curve	9213'	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 13.375 inch casing @ 665' (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 9.625 inch casing at 8443.32' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 24760.71 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8143.32 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 665'	13.375	54.5	J-55	BTC	New	1.57	3.89	25.08
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	3.39	2.48	3.75
12.25	4000' – 8443.32'	9.625	40	HC L-80	BTC	New	2.46	2.38	5.15
8.5	0' – 8343.32'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.81	2.13
8.5	8343.32' - 24760.71'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.55	2.13

- 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
- 9.625 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: 13-5/8" 10M top flange x 13-3/8" SOW bottom (or equivalent)

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 665'

Lead: 270 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 300 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: 9.625, 40 New casing to be set at +/- 8443.32'

1st Stage

Optional Lead: 990 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 750 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 5853

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: 2060 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 (5853') 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-Premium, RY P-110 casing to be set at +/- 24760.71'

Lead: 50 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8143.32 feet

Tail: 3170 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8643.32 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 13.375 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 2333 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 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 9.625, 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' - 665'	17.5	FW/Native	8.4-8.9	35-40	NC
665' - 8443.32'	12.25	FW / Cut Brine / Direct Emulsion	8.2-8.7	30-32	NC
8443.32' - 24760.71'	8.5	OBM	9.1-9.6	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 13.375 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 160 to 180 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 4360 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 121H

Measured Depth:	24760.71 ft
TVD RKB:	9213.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439129.80 ft
Easting:	625853.80 ft
RKB:	3178.00 ft
Ground Level:	3146.00 ft
North Reference:	Grid
Convergence Angle:	0.22 Deg

Plan SectionsPoker Lake Unit 19 DTD South 121H

Measured	TVD					Build	Turn	Dogleg		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target	
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)		
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		
1809.56	14.19	338.09	1802.33	81.11	-32.62	2.00	0.00	2.00		
6136.96	14.19	338.09	5997.67	1065.39	-428.48	0.00	0.00	0.00		
6846.52	0.00	0.00	6700.00	1146.50	-461.10	-2.00	0.00	2.00		
8643.32	0.00	0.00	8496.80	1146.50	-461.10	0.00	0.00	0.00		
9768.32	90.00	179.73	9213.00	430.31	-457.66	8.00	0.00	8.00		
24710.75	90.00	179.73	9213.00	-14511.95	-385.94	0.00	0.00	0.00	LTP 5	
24760.71	90.00	179.73	9213.00	-14561.90	-385.70	0.00	0.00	0.00	BHL 5	

Position UncertaintyPoker Lake Unit 19 DTD South 121H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	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	2.404	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	2.527	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	2.629	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	338.091	1199.980	4.621	0.000	4.903	0.000	2.685	0.000	0.000	5.214	4.270	121.754	MWD+IFR1+MS
1300.000	4.000	338.091	1299.838	5.469	0.000	5.243	0.000	2.745	0.000	0.000	5.882	4.783	106.914	MWD+IFR1+MS
1400.000	6.000	338.091	1399.452	6.215	0.000	5.583	0.000	2.810	0.000	0.000	6.568	5.184	99.028	MWD+IFR1+MS
1500.000	8.000	338.091	1498.702	6.893	0.000	5.925	0.000	2.882	0.000	0.000	7.229	5.547	94.800	MWD+IFR1+MS
1600.000	10.000	338.091	1597.465	7.518	0.000	6.270	0.000	2.965	0.000	0.000	7.856	5.897	92.291	MWD+IFR1+MS
1700.000	12.000	338.091	1695.623	8.102	0.000	6.616	0.000	3.059	0.000	0.000	8.453	6.243	90.674	MWD+IFR1+MS
1809.560	14.191	338.091	1802.327	8.773	0.000	7.004	0.000	3.189	0.000	0.000	9.143	6.622	89.288	MWD+IFR1+MS
1900.000	14.191	338.091	1890.007	9.124	0.000	7.320	0.000	3.273	0.000	0.000	9.491	6.932	89.357	MWD+IFR1+MS
2000.000	14.191	338.091	1986.956	9.416	0.000	7.673	0.000	3.359	0.000	0.000	9.780	7.285	89.749	MWD+IFR1+MS
2100.000	14.191	338.091	2083.904	9.716	0.000	8.031	0.000	3.450	0.000	0.000	10.079	7.642	90.166	MWD+IFR1+MS
2200.000	14.191	338.091	2180.852	10.024	0.000	8.392	0.000	3.544	0.000	0.000	10.384	8.001	90.574	MWD+IFR1+MS
2300.000	14.191	338.091	2277.801	10.338	0.000	8.755	0.000	3.641	0.000	0.000	10.695	8.362	90.973	MWD+IFR1+MS
2400.000	14.191	338.091	2374.749	10.658	0.000	9.120	0.000	3.742	0.000	0.000	11.011	8.726	91.364	MWD+IFR1+MS
2500.000	14.191	338.091	2471.697	10.982	0.000	9.487	0.000	3.845	0.000	0.000	11.331	9.090	91.745	MWD+IFR1+MS
2600.000	14.191	338.091	2568.646	11.312	0.000	9.855	0.000	3.951	0.000	0.000	11.656	9.457	92.118	MWD+IFR1+MS
2700.000	14.191	338.091	2665.594	11.646	0.000	10.225	0.000	4.059	0.000	0.000	11.985	9.824	92.483	MWD+IFR1+MS
2800.000	14.191	338.091	2762.542	11.983	0.000	10.596	0.000	4.170	0.000	0.000	12.317	10.193	92.839	MWD+IFR1+MS
2900.000	14.191	338.091	2859.490	12.325	0.000	10.969	0.000	4.283	0.000	0.000	12.653	10.563	93.188	MWD+IFR1+MS
3000.000	14.191	338.091	2956.439	12.669	0.000	11.342	0.000	4.398	0.000	0.000	12.992	10.934	93.528	MWD+IFR1+MS

3100.000	14.191	338.091	3053.387	13.017	0.000	11.716	0.000	4.516	0.000	0.000	13.334	11.306	93.860	MWD+IFR1+MS
3200.000	14.191	338.091	3150.335	13.368	0.000	12.091	0.000	4.635	0.000	0.000	13.678	11.678	94.185	MWD+IFR1+MS
3300.000	14.191	338.091	3247.284	13.721	0.000	12.467	0.000	4.756	0.000	0.000	14.025	12.051	94.502	MWD+IFR1+MS
3400.000	14.191	338.091	3344.232	14.077	0.000	12.843	0.000	4.879	0.000	0.000	14.374	12.425	94.812	MWD+IFR1+MS
3500.000	14.191	338.091	3441.180	14.434	0.000	13.220	0.000	5.004	0.000	0.000	14.725	12.799	95.114	MWD+IFR1+MS
3600.000	14.191	338.091	3538.129	14.794	0.000	13.598	0.000	5.131	0.000	0.000	15.079	13.174	95.409	MWD+IFR1+MS
3700.000	14.191	338.091	3635.077	15.156	0.000	13.976	0.000	5.259	0.000	0.000	15.434	13.550	95.697	MWD+IFR1+MS
3800.000	14.191	338.091	3732.025	15.520	0.000	14.354	0.000	5.389	0.000	0.000	15.790	13.926	95.978	MWD+IFR1+MS
3900.000	14.191	338.091	3828.973	15.885	0.000	14.734	0.000	5.521	0.000	0.000	16.149	14.302	96.253	MWD+IFR1+MS
4000.000	14.191	338.091	3925.922	16.252	0.000	15.113	0.000	5.654	0.000	0.000	16.508	14.679	96.521	MWD+IFR1+MS
4100.000	14.191	338.091	4022.870	16.621	0.000	15.493	0.000	5.789	0.000	0.000	16.870	15.056	96.782	MWD+IFR1+MS
4200.000	14.191	338.091	4119.818	16.990	0.000	15.873	0.000	5.926	0.000	0.000	17.232	15.434	97.037	MWD+IFR1+MS
4300.000	14.191	338.091	4216.767	17.361	0.000	16.254	0.000	6.064	0.000	0.000	17.596	15.811	97.286	MWD+IFR1+MS
4400.000	14.191	338.091	4313.715	17.733	0.000	16.635	0.000	6.204	0.000	0.000	17.960	16.190	97.528	MWD+IFR1+MS
4500.000	14.191	338.091	4410.663	18.107	0.000	17.016	0.000	6.345	0.000	0.000	18.326	16.568	97.765	MWD+IFR1+MS
4600.000	14.191	338.091	4507.612	18.481	0.000	17.397	0.000	6.488	0.000	0.000	18.693	16.947	97.996	MWD+IFR1+MS
4700.000	14.191	338.091	4604.560	18.856	0.000	17.779	0.000	6.633	0.000	0.000	19.061	17.326	98.221	MWD+IFR1+MS
4800.000	14.191	338.091	4701.508	19.233	0.000	18.161	0.000	6.779	0.000	0.000	19.430	17.705	98.440	MWD+IFR1+MS
4900.000	14.191	338.091	4798.457	19.610	0.000	18.543	0.000	6.927	0.000	0.000	19.799	18.085	98.654	MWD+IFR1+MS
5000.000	14.191	338.091	4895.405	19.988	0.000	18.925	0.000	7.077	0.000	0.000	20.170	18.464	98.863	MWD+IFR1+MS
5100.000	14.191	338.091	4992.353	20.366	0.000	19.308	0.000	7.228	0.000	0.000	20.541	18.844	99.066	MWD+IFR1+MS
5200.000	14.191	338.091	5089.301	20.746	0.000	19.691	0.000	7.381	0.000	0.000	20.913	19.224	99.264	MWD+IFR1+MS
5300.000	14.191	338.091	5186.250	21.126	0.000	20.074	0.000	7.535	0.000	0.000	21.285	19.604	99.458	MWD+IFR1+MS
5400.000	14.191	338.091	5283.198	21.507	0.000	20.457	0.000	7.692	0.000	0.000	21.659	19.985	99.646	MWD+IFR1+MS
5500.000	14.191	338.091	5380.146	21.888	0.000	20.840	0.000	7.850	0.000	0.000	22.032	20.366	99.829	MWD+IFR1+MS
5600.000	14.191	338.091	5477.095	22.271	0.000	21.224	0.000	8.009	0.000	0.000	22.407	20.746	100.007	MWD+IFR1+MS
5700.000	14.191	338.091	5574.043	22.653	0.000	21.607	0.000	8.171	0.000	0.000	22.782	21.127	100.181	MWD+IFR1+MS
5800.000	14.191	338.091	5670.991	23.036	0.000	21.991	0.000	8.334	0.000	0.000	23.157	21.508	100.350	MWD+IFR1+MS
5900.000	14.191	338.091	5767.940	23.420	0.000	22.375	0.000	8.499	0.000	0.000	23.533	21.890	100.514	MWD+IFR1+MS
6000.000	14.191	338.091	5864.888	23.804	0.000	22.758	0.000	8.666	0.000	0.000	23.910	22.271	100.675	MWD+IFR1+MS
6100.000	14.191	338.091	5961.836	24.189	0.000	23.142	0.000	8.835	0.000	0.000	24.287	22.653	100.830	MWD+IFR1+MS
6136.965	14.191	338.091	5997.673	24.329	0.000	23.282	0.000	8.897	0.000	0.000	24.422	22.793	100.850	MWD+IFR1+MS
6200.000	12.930	338.091	6058.949	24.592	0.000	23.519	0.000	9.005	0.000	0.000	24.656	23.032	100.826	MWD+IFR1+MS

6300.000	10.930	338.091	6156.784	25.045	0.000	23.893	0.000	9.180	0.000	0.000	25.081	23.414	100.081	MWD+IFR1+MS
6400.000	8.930	338.091	6255.281	25.497	0.000	24.264	0.000	9.351	0.000	0.000	25.533	23.791	99.024	MWD+IFR1+MS
6500.000	6.930	338.091	6354.320	25.908	0.000	24.627	0.000	9.513	0.000	0.000	25.978	24.161	98.062	MWD+IFR1+MS
6600.000	4.930	338.091	6453.780	26.281	0.000	24.983	0.000	9.668	0.000	0.000	26.415	24.522	97.191	MWD+IFR1+MS
6700.000	2.930	338.091	6553.539	26.613	0.000	25.331	0.000	9.817	0.000	0.000	26.843	24.875	96.410	MWD+IFR1+MS
6800.000	0.930	338.091	6653.477	26.906	0.000	25.672	0.000	9.961	0.000	0.000	27.262	25.219	95.713	MWD+IFR1+MS
6846.525	0.000	0.000	6700.000	27.398	0.000	25.394	0.000	10.027	0.000	0.000	27.418	25.373	95.698	MWD+IFR1+MS
6900.000	0.000	0.000	6753.475	27.566	0.000	25.571	0.000	10.102	0.000	0.000	27.586	25.550	95.757	MWD+IFR1+MS
7000.000	0.000	0.000	6853.475	27.879	0.000	25.906	0.000	10.245	0.000	0.000	27.900	25.884	95.931	MWD+IFR1+MS
7100.000	0.000	0.000	6953.475	28.197	0.000	26.244	0.000	10.391	0.000	0.000	28.219	26.220	96.180	MWD+IFR1+MS
7200.000	0.000	0.000	7053.475	28.515	0.000	26.583	0.000	10.540	0.000	0.000	28.539	26.557	96.428	MWD+IFR1+MS
7300.000	0.000	0.000	7153.475	28.834	0.000	26.923	0.000	10.692	0.000	0.000	28.859	26.895	96.674	MWD+IFR1+MS
7400.000	0.000	0.000	7253.475	29.154	0.000	27.262	0.000	10.847	0.000	0.000	29.181	27.233	96.919	MWD+IFR1+MS
7500.000	0.000	0.000	7353.475	29.474	0.000	27.603	0.000	11.005	0.000	0.000	29.504	27.572	97.161	MWD+IFR1+MS
7600.000	0.000	0.000	7453.475	29.796	0.000	27.943	0.000	11.166	0.000	0.000	29.827	27.911	97.403	MWD+IFR1+MS
7700.000	0.000	0.000	7553.475	30.119	0.000	28.285	0.000	11.330	0.000	0.000	30.151	28.250	97.642	MWD+IFR1+MS
7800.000	0.000	0.000	7653.475	30.442	0.000	28.626	0.000	11.497	0.000	0.000	30.476	28.590	97.880	MWD+IFR1+MS
7900.000	0.000	0.000	7753.475	30.766	0.000	28.968	0.000	11.666	0.000	0.000	30.802	28.930	98.116	MWD+IFR1+MS
8000.000	0.000	0.000	7853.475	31.091	0.000	29.311	0.000	11.839	0.000	0.000	31.129	29.270	98.350	MWD+IFR1+MS
8100.000	0.000	0.000	7953.475	31.417	0.000	29.653	0.000	12.016	0.000	0.000	31.456	29.611	98.583	MWD+IFR1+MS
8200.000	0.000	0.000	8053.475	31.743	0.000	29.997	0.000	12.195	0.000	0.000	31.785	29.952	98.814	MWD+IFR1+MS
8300.000	0.000	0.000	8153.475	32.070	0.000	30.340	0.000	12.377	0.000	0.000	32.114	30.294	99.043	MWD+IFR1+MS
8400.000	0.000	0.000	8253.475	32.398	0.000	30.684	0.000	12.562	0.000	0.000	32.443	30.636	99.270	MWD+IFR1+MS
8500.000	0.000	0.000	8353.475	32.726	0.000	31.028	0.000	12.751	0.000	0.000	32.773	30.978	99.495	MWD+IFR1+MS
8600.000	0.000	0.000	8453.475	33.055	0.000	31.373	0.000	12.943	0.000	0.000	33.104	31.320	99.719	MWD+IFR1+MS
8643.325	0.000	0.000	8496.800	33.196	0.000	31.520	0.000	13.027	0.000	0.000	33.245	31.468	99.758	MWD+IFR1+MS
8700.000	4.534	179.725	8553.416	32.977	0.000	31.704	-0.000	13.135	0.000	0.000	33.444	31.649	99.662	MWD+IFR1+MS
8800.000	12.534	179.725	8652.229	32.891	0.000	31.994	-0.000	13.371	0.000	0.000	34.455	31.941	97.907	MWD+IFR1+MS
8900.000	20.534	179.725	8748.016	32.790	0.000	32.259	-0.000	13.792	0.000	0.000	35.798	32.204	96.651	MWD+IFR1+MS
9000.000	28.534	179.725	8838.914	32.229	0.000	32.494	-0.000	14.468	0.000	0.000	36.951	32.434	96.141	MWD+IFR1+MS
9100.000	36.534	179.725	8923.152	31.298	0.000	32.699	-0.000	15.443	0.000	0.000	37.899	32.632	95.938	MWD+IFR1+MS
9200.000	44.534	179.725	8999.093	30.112	0.000	32.872	-0.000	16.712	0.000	0.000	38.641	32.798	95.892	MWD+IFR1+MS
9300.000	52.534	179.725	9065.256	28.821	0.000	33.013	-0.000	18.237	0.000	0.000	39.184	32.933	95.934	MWD+IFR1+MS

9400.000	60.534	179.725	9120.356	27.604	0.000	33.124	-0.000	19.955	0.000	0.000	39.547	33.039	96.018	MWD+IFR1+MS
9500.000	68.534	179.725	9163.318	26.662	0.000	33.206	-0.000	21.799	0.000	0.000	39.758	33.115	96.106	MWD+IFR1+MS
9600.000	76.534	179.725	9193.308	26.193	0.000	33.258	-0.000	23.699	0.000	0.000	39.852	33.166	96.156	MWD+IFR1+MS
9700.000	84.534	179.725	9209.741	26.347	0.000	33.281	-0.000	25.590	0.000	0.000	39.872	33.190	96.120	MWD+IFR1+MS
9768.325	90.000	179.725	9212.997	26.274	0.000	33.278	-0.000	26.274	0.000	0.000	39.869	33.191	96.007	MWD+IFR1+MS
9800.000	90.000	179.725	9212.997	26.359	0.000	33.274	-0.000	26.359	0.000	0.000	39.868	33.188	95.940	MWD+IFR1+MS
9900.000	90.000	179.725	9212.997	26.579	0.000	33.275	-0.000	26.579	0.000	0.000	39.863	33.195	95.745	MWD+IFR1+MS
10000.000	90.000	179.725	9212.997	26.824	0.000	33.298	-0.000	26.824	0.000	0.000	39.859	33.222	95.565	MWD+IFR1+MS
10100.000	90.000	179.725	9212.997	27.090	0.000	33.338	-0.000	27.090	0.000	0.000	39.856	33.267	95.396	MWD+IFR1+MS
10200.000	90.000	179.725	9212.997	27.375	0.000	33.395	-0.000	27.375	0.000	0.000	39.854	33.329	95.238	MWD+IFR1+MS
10300.000	90.000	179.725	9212.997	27.680	0.000	33.470	-0.000	27.680	0.000	0.000	39.852	33.408	95.090	MWD+IFR1+MS
10400.000	90.000	179.725	9212.997	28.004	0.000	33.562	-0.000	28.004	0.000	0.000	39.851	33.505	94.951	MWD+IFR1+MS
10500.000	90.000	179.725	9212.997	28.345	0.000	33.671	-0.000	28.345	0.000	0.000	39.851	33.618	94.821	MWD+IFR1+MS
10600.000	90.000	179.725	9212.997	28.704	0.000	33.798	-0.000	28.704	0.000	0.000	39.852	33.748	94.699	MWD+IFR1+MS
10700.000	90.000	179.725	9212.997	29.080	0.000	33.941	-0.000	29.080	0.000	0.000	39.853	33.894	94.584	MWD+IFR1+MS
10800.000	90.000	179.725	9212.997	29.472	0.000	34.101	-0.000	29.472	0.000	0.000	39.855	34.057	94.477	MWD+IFR1+MS
10900.000	90.000	179.725	9212.997	29.879	0.000	34.277	-0.000	29.879	0.000	0.000	39.858	34.237	94.376	MWD+IFR1+MS
11000.000	90.000	179.725	9212.997	30.301	0.000	34.469	-0.000	30.301	0.000	0.000	39.861	34.432	94.282	MWD+IFR1+MS
11100.000	90.000	179.725	9212.997	30.738	0.000	34.677	-0.000	30.738	0.000	0.000	39.865	34.643	94.195	MWD+IFR1+MS
11200.000	90.000	179.725	9212.997	31.188	0.000	34.900	-0.000	31.188	0.000	0.000	39.869	34.869	94.114	MWD+IFR1+MS
11300.000	90.000	179.725	9212.997	31.651	0.000	35.139	-0.000	31.651	0.000	0.000	39.874	35.110	94.040	MWD+IFR1+MS
11400.000	90.000	179.725	9212.997	32.126	0.000	35.393	-0.000	32.126	0.000	0.000	39.880	35.366	93.973	MWD+IFR1+MS
11500.000	90.000	179.725	9212.997	32.614	0.000	35.661	-0.000	32.614	0.000	0.000	39.887	35.637	93.913	MWD+IFR1+MS
11600.000	90.000	179.725	9212.997	33.113	0.000	35.944	-0.000	33.113	0.000	0.000	39.894	35.922	93.860	MWD+IFR1+MS
11700.000	90.000	179.725	9212.997	33.623	0.000	36.240	-0.000	33.623	0.000	0.000	39.901	36.221	93.817	MWD+IFR1+MS
11800.000	90.000	179.725	9212.997	34.143	0.000	36.551	-0.000	34.143	0.000	0.000	39.909	36.533	93.785	MWD+IFR1+MS
11900.000	90.000	179.725	9212.997	34.673	0.000	36.874	-0.000	34.673	0.000	0.000	39.918	36.858	93.766	MWD+IFR1+MS
12000.000	90.000	179.725	9212.997	35.213	0.000	37.211	-0.000	35.213	0.000	0.000	39.927	37.197	93.764	MWD+IFR1+MS
12100.000	90.000	179.725	9212.997	35.762	0.000	37.560	-0.000	35.762	0.000	0.000	39.937	37.548	93.787	MWD+IFR1+MS
12200.000	90.000	179.725	9212.997	36.320	0.000	37.921	-0.000	36.320	0.000	0.000	39.948	37.910	93.845	MWD+IFR1+MS
12300.000	90.000	179.725	9212.997	36.885	0.000	38.294	-0.000	36.885	0.000	0.000	39.959	38.285	93.963	MWD+IFR1+MS
12400.000	90.000	179.725	9212.997	37.459	0.000	38.679	-0.000	37.459	0.000	0.000	39.971	38.671	94.193	MWD+IFR1+MS
12500.000	90.000	179.725	9212.997	38.040	0.000	39.075	-0.000	38.040	0.000	0.000	39.983	39.068	94.679	MWD+IFR1+MS

12600.000	90.000	179.725	9212.997	38.629	0.000	39.482	-0.000	38.629	0.000	0.000	39.997	39.476	96.014	MWD+IFR1+MS
12700.000	90.000	179.725	9212.997	39.224	0.000	39.899	-0.000	39.224	0.000	0.000	40.016	39.889	106.456	MWD+IFR1+MS
12800.000	90.000	179.725	9212.997	39.826	0.000	40.327	-0.000	39.826	0.000	0.000	40.328	40.020	-2.781	MWD+IFR1+MS
12900.000	90.000	179.725	9212.997	40.434	0.000	40.765	-0.000	40.434	0.000	0.000	40.765	40.036	0.342	MWD+IFR1+MS
13000.000	90.000	179.725	9212.997	41.048	0.000	41.212	-0.000	41.048	0.000	0.000	41.212	40.051	1.152	MWD+IFR1+MS
13100.000	90.000	179.725	9212.997	41.668	0.000	41.668	-0.000	41.668	0.000	0.000	41.670	40.067	1.504	MWD+IFR1+MS
13200.000	90.000	179.725	9212.997	42.293	0.000	42.133	-0.000	42.293	0.000	0.000	42.136	40.083	1.689	MWD+IFR1+MS
13300.000	90.000	179.725	9212.997	42.924	0.000	42.607	-0.000	42.924	0.000	0.000	42.610	40.100	1.795	MWD+IFR1+MS
13400.000	90.000	179.725	9212.997	43.560	0.000	43.090	-0.000	43.560	0.000	0.000	43.094	40.117	1.857	MWD+IFR1+MS
13500.000	90.000	179.725	9212.997	44.200	0.000	43.580	-0.000	44.200	0.000	0.000	43.585	40.135	1.894	MWD+IFR1+MS
13600.000	90.000	179.725	9212.997	44.845	0.000	44.078	-0.000	44.845	0.000	0.000	44.084	40.154	1.914	MWD+IFR1+MS
13700.000	90.000	179.725	9212.997	45.494	0.000	44.584	-0.000	45.494	0.000	0.000	44.591	40.172	1.923	MWD+IFR1+MS
13800.000	90.000	179.725	9212.997	46.148	0.000	45.098	-0.000	46.148	0.000	0.000	45.104	40.192	1.924	MWD+IFR1+MS
13900.000	90.000	179.725	9212.997	46.806	0.000	45.618	-0.000	46.806	0.000	0.000	45.625	40.212	1.920	MWD+IFR1+MS
14000.000	90.000	179.725	9212.997	47.467	0.000	46.145	-0.000	47.467	0.000	0.000	46.153	40.232	1.911	MWD+IFR1+MS
14100.000	90.000	179.725	9212.997	48.132	0.000	46.679	-0.000	48.132	0.000	0.000	46.687	40.253	1.900	MWD+IFR1+MS
14200.000	90.000	179.725	9212.997	48.801	0.000	47.219	-0.000	48.801	0.000	0.000	47.228	40.275	1.886	MWD+IFR1+MS
14300.000	90.000	179.725	9212.997	49.473	0.000	47.765	-0.000	49.473	0.000	0.000	47.775	40.297	1.871	MWD+IFR1+MS
14400.000	90.000	179.725	9212.997	50.148	0.000	48.317	-0.000	50.148	0.000	0.000	48.327	40.320	1.854	MWD+IFR1+MS
14500.000	90.000	179.725	9212.997	50.827	0.000	48.875	-0.000	50.827	0.000	0.000	48.886	40.343	1.837	MWD+IFR1+MS
14600.000	90.000	179.725	9212.997	51.509	0.000	49.439	-0.000	51.509	0.000	0.000	49.450	40.366	1.819	MWD+IFR1+MS
14700.000	90.000	179.725	9212.997	52.193	0.000	50.008	-0.000	52.193	0.000	0.000	50.019	40.391	1.800	MWD+IFR1+MS
14800.000	90.000	179.725	9212.997	52.880	0.000	50.582	-0.000	52.880	0.000	0.000	50.594	40.415	1.781	MWD+IFR1+MS
14900.000	90.000	179.725	9212.997	53.570	0.000	51.161	-0.000	53.570	0.000	0.000	51.173	40.440	1.762	MWD+IFR1+MS
15000.000	90.000	179.725	9212.997	54.263	0.000	51.745	-0.000	54.263	0.000	0.000	51.757	40.466	1.743	MWD+IFR1+MS
15100.000	90.000	179.725	9212.997	54.958	0.000	52.333	-0.000	54.958	0.000	0.000	52.346	40.492	1.724	MWD+IFR1+MS
15200.000	90.000	179.725	9212.997	55.655	0.000	52.927	-0.000	55.655	0.000	0.000	52.940	40.519	1.705	MWD+IFR1+MS
15300.000	90.000	179.725	9212.997	56.355	0.000	53.524	-0.000	56.355	0.000	0.000	53.537	40.546	1.685	MWD+IFR1+MS
15400.000	90.000	179.725	9212.997	57.057	0.000	54.126	-0.000	57.057	0.000	0.000	54.139	40.574	1.666	MWD+IFR1+MS
15500.000	90.000	179.725	9212.997	57.761	0.000	54.732	-0.000	57.761	0.000	0.000	54.745	40.603	1.648	MWD+IFR1+MS
15600.000	90.000	179.725	9212.997	58.467	0.000	55.341	-0.000	58.467	0.000	0.000	55.356	40.631	1.629	MWD+IFR1+MS
15700.000	90.000	179.725	9212.997	59.175	0.000	55.955	-0.000	59.175	0.000	0.000	55.969	40.661	1.611	MWD+IFR1+MS
15800.000	90.000	179.725	9212.997	59.885	0.000	56.572	-0.000	59.885	0.000	0.000	56.587	40.690	1.592	MWD+IFR1+MS

15900.000	90.000	179.725	9212.997	60.597	0.000	57.193	-0.000	60.597	0.000	0.000	57.208	40.721	1.574	MWD+IFR1+MS
16000.000	90.000	179.725	9212.997	61.310	0.000	57.818	-0.000	61.310	0.000	0.000	57.833	40.752	1.557	MWD+IFR1+MS
16100.000	90.000	179.725	9212.997	62.026	0.000	58.445	-0.000	62.026	0.000	0.000	58.460	40.783	1.539	MWD+IFR1+MS
16200.000	90.000	179.725	9212.997	62.743	0.000	59.076	-0.000	62.743	0.000	0.000	59.092	40.815	1.522	MWD+IFR1+MS
16300.000	90.000	179.725	9212.997	63.461	0.000	59.711	-0.000	63.461	0.000	0.000	59.726	40.847	1.505	MWD+IFR1+MS
16400.000	90.000	179.725	9212.997	64.182	0.000	60.348	-0.000	64.182	0.000	0.000	60.363	40.880	1.488	MWD+IFR1+MS
16500.000	90.000	179.725	9212.997	64.903	0.000	60.988	-0.000	64.903	0.000	0.000	61.003	40.913	1.471	MWD+IFR1+MS
16600.000	90.000	179.725	9212.997	65.626	0.000	61.631	-0.000	65.626	0.000	0.000	61.647	40.947	1.455	MWD+IFR1+MS
16700.000	90.000	179.725	9212.997	66.351	0.000	62.277	-0.000	66.351	0.000	0.000	62.292	40.981	1.439	MWD+IFR1+MS
16800.000	90.000	179.725	9212.997	67.077	0.000	62.925	-0.000	67.077	0.000	0.000	62.941	41.016	1.423	MWD+IFR1+MS
16900.000	90.000	179.725	9212.997	67.804	0.000	63.576	-0.000	67.804	0.000	0.000	63.592	41.052	1.407	MWD+IFR1+MS
17000.000	90.000	179.725	9212.997	68.532	0.000	64.230	-0.000	68.532	0.000	0.000	64.246	41.087	1.392	MWD+IFR1+MS
17100.000	90.000	179.725	9212.997	69.262	0.000	64.886	-0.000	69.262	0.000	0.000	64.902	41.124	1.377	MWD+IFR1+MS
17200.000	90.000	179.725	9212.997	69.993	0.000	65.544	-0.000	69.993	0.000	0.000	65.560	41.160	1.362	MWD+IFR1+MS
17300.000	90.000	179.725	9212.997	70.725	0.000	66.205	-0.000	70.725	0.000	0.000	66.221	41.198	1.348	MWD+IFR1+MS
17400.000	90.000	179.725	9212.997	71.458	0.000	66.868	-0.000	71.458	0.000	0.000	66.884	41.235	1.333	MWD+IFR1+MS
17500.000	90.000	179.725	9212.997	72.192	0.000	67.533	-0.000	72.192	0.000	0.000	67.549	41.274	1.319	MWD+IFR1+MS
17600.000	90.000	179.725	9212.997	72.927	0.000	68.200	-0.000	72.927	0.000	0.000	68.216	41.312	1.305	MWD+IFR1+MS
17700.000	90.000	179.725	9212.997	73.664	0.000	68.869	-0.000	73.664	0.000	0.000	68.886	41.351	1.291	MWD+IFR1+MS
17800.000	90.000	179.725	9212.997	74.401	0.000	69.541	-0.000	74.401	0.000	0.000	69.557	41.391	1.278	MWD+IFR1+MS
17900.000	90.000	179.725	9212.997	75.139	0.000	70.214	-0.000	75.139	0.000	0.000	70.230	41.431	1.265	MWD+IFR1+MS
18000.000	90.000	179.725	9212.997	75.878	0.000	70.889	-0.000	75.878	0.000	0.000	70.905	41.472	1.252	MWD+IFR1+MS
18100.000	90.000	179.725	9212.997	76.619	0.000	71.566	-0.000	76.619	0.000	0.000	71.582	41.513	1.239	MWD+IFR1+MS
18200.000	90.000	179.725	9212.997	77.360	0.000	72.244	-0.000	77.360	0.000	0.000	72.261	41.554	1.226	MWD+IFR1+MS
18300.000	90.000	179.725	9212.997	78.101	0.000	72.925	-0.000	78.101	0.000	0.000	72.941	41.596	1.214	MWD+IFR1+MS
18400.000	90.000	179.725	9212.997	78.844	0.000	73.607	-0.000	78.844	0.000	0.000	73.623	41.639	1.201	MWD+IFR1+MS
18500.000	90.000	179.725	9212.997	79.588	0.000	74.290	-0.000	79.588	0.000	0.000	74.307	41.682	1.189	MWD+IFR1+MS
18600.000	90.000	179.725	9212.997	80.332	0.000	74.976	-0.000	80.332	0.000	0.000	74.992	41.725	1.177	MWD+IFR1+MS
18700.000	90.000	179.725	9212.997	81.077	0.000	75.662	-0.000	81.077	0.000	0.000	75.679	41.769	1.166	MWD+IFR1+MS
18800.000	90.000	179.725	9212.997	81.823	0.000	76.351	-0.000	81.823	0.000	0.000	76.367	41.813	1.154	MWD+IFR1+MS
18900.000	90.000	179.725	9212.997	82.569	0.000	77.040	-0.000	82.569	0.000	0.000	77.057	41.858	1.143	MWD+IFR1+MS
19000.000	90.000	179.725	9212.997	83.316	0.000	77.732	-0.000	83.316	0.000	0.000	77.748	41.903	1.131	MWD+IFR1+MS
19100.000	90.000	179.725	9212.997	84.064	0.000	78.424	-0.000	84.064	0.000	0.000	78.441	41.949	1.120	MWD+IFR1+MS

19200.000	90.000	179.725	9212.997	84.813	0.000	79.118	-0.000	84.813	0.000	0.000	79.135	41.995	1.109	MWD+IFR1+MS
19300.000	90.000	179.725	9212.997	85.562	0.000	79.813	-0.000	85.562	0.000	0.000	79.830	42.042	1.099	MWD+IFR1+MS
19400.000	90.000	179.725	9212.997	86.312	0.000	80.510	-0.000	86.312	0.000	0.000	80.526	42.089	1.088	MWD+IFR1+MS
19500.000	90.000	179.725	9212.997	87.062	0.000	81.207	-0.000	87.062	0.000	0.000	81.224	42.136	1.078	MWD+IFR1+MS
19600.000	90.000	179.725	9212.997	87.813	0.000	81.906	-0.000	87.813	0.000	0.000	81.923	42.184	1.068	MWD+IFR1+MS
19700.000	90.000	179.725	9212.997	88.565	0.000	82.606	-0.000	88.565	0.000	0.000	82.623	42.233	1.057	MWD+IFR1+MS
19800.000	90.000	179.725	9212.997	89.317	0.000	83.308	-0.000	89.317	0.000	0.000	83.324	42.281	1.048	MWD+IFR1+MS
19900.000	90.000	179.725	9212.997	90.070	0.000	84.010	-0.000	90.070	0.000	0.000	84.026	42.331	1.038	MWD+IFR1+MS
20000.000	90.000	179.725	9212.997	90.823	0.000	84.713	-0.000	90.823	0.000	0.000	84.730	42.380	1.028	MWD+IFR1+MS
20100.000	90.000	179.725	9212.997	91.577	0.000	85.418	-0.000	91.577	0.000	0.000	85.434	42.431	1.019	MWD+IFR1+MS
20200.000	90.000	179.725	9212.997	92.331	0.000	86.124	-0.000	92.331	0.000	0.000	86.140	42.481	1.009	MWD+IFR1+MS
20300.000	90.000	179.725	9212.997	93.086	0.000	86.830	-0.000	93.086	0.000	0.000	86.846	42.532	1.000	MWD+IFR1+MS
20400.000	90.000	179.725	9212.997	93.841	0.000	87.538	-0.000	93.841	0.000	0.000	87.554	42.584	0.991	MWD+IFR1+MS
20500.000	90.000	179.725	9212.997	94.597	0.000	88.246	-0.000	94.597	0.000	0.000	88.263	42.636	0.982	MWD+IFR1+MS
20600.000	90.000	179.725	9212.997	95.354	0.000	88.956	-0.000	95.354	0.000	0.000	88.972	42.688	0.973	MWD+IFR1+MS
20700.000	90.000	179.725	9212.997	96.110	0.000	89.666	-0.000	96.110	0.000	0.000	89.682	42.741	0.964	MWD+IFR1+MS
20800.000	90.000	179.725	9212.997	96.867	0.000	90.377	-0.000	96.867	0.000	0.000	90.394	42.794	0.955	MWD+IFR1+MS
20900.000	90.000	179.725	9212.997	97.625	0.000	91.090	-0.000	97.625	0.000	0.000	91.106	42.848	0.947	MWD+IFR1+MS
21000.000	90.000	179.725	9212.997	98.383	0.000	91.803	-0.000	98.383	0.000	0.000	91.819	42.902	0.938	MWD+IFR1+MS
21100.000	90.000	179.725	9212.997	99.142	0.000	92.517	-0.000	99.142	0.000	0.000	92.533	42.956	0.930	MWD+IFR1+MS
21200.000	90.000	179.725	9212.997	99.900	0.000	93.231	-0.000	99.900	0.000	0.000	93.247	43.011	0.922	MWD+IFR1+MS
21300.000	90.000	179.725	9212.997	100.660	0.000	93.947	-0.000	100.660	0.000	0.000	93.963	43.066	0.914	MWD+IFR1+MS
21400.000	90.000	179.725	9212.997	101.419	0.000	94.663	-0.000	101.419	0.000	0.000	94.679	43.122	0.906	MWD+IFR1+MS
21500.000	90.000	179.725	9212.997	102.179	0.000	95.380	-0.000	102.179	0.000	0.000	95.396	43.178	0.898	MWD+IFR1+MS
21600.000	90.000	179.725	9212.997	102.940	0.000	96.098	-0.000	102.940	0.000	0.000	96.114	43.235	0.890	MWD+IFR1+MS
21700.000	90.000	179.725	9212.997	103.701	0.000	96.817	-0.000	103.701	0.000	0.000	96.832	43.292	0.883	MWD+IFR1+MS
21800.000	90.000	179.725	9212.997	104.462	0.000	97.536	-0.000	104.462	0.000	0.000	97.552	43.349	0.875	MWD+IFR1+MS
21900.000	90.000	179.725	9212.997	105.223	0.000	98.256	-0.000	105.223	0.000	0.000	98.271	43.407	0.868	MWD+IFR1+MS
22000.000	90.000	179.725	9212.997	105.985	0.000	98.976	-0.000	105.985	0.000	0.000	98.992	43.465	0.860	MWD+IFR1+MS
22100.000	90.000	179.725	9212.997	106.747	0.000	99.698	-0.000	106.747	0.000	0.000	99.713	43.524	0.853	MWD+IFR1+MS
22200.000	90.000	179.725	9212.997	107.510	0.000	100.420	-0.000	107.510	0.000	0.000	100.435	43.583	0.846	MWD+IFR1+MS
22300.000	90.000	179.725	9212.997	108.272	0.000	101.142	-0.000	108.272	0.000	0.000	101.158	43.642	0.839	MWD+IFR1+MS
22400.000	90.000	179.725	9212.997	109.036	0.000	101.865	-0.000	109.036	0.000	0.000	101.881	43.702	0.832	MWD+IFR1+MS

22500.000	90.000	179.725	9212.997	109.799	0.000	102.589	-0.000	109.799	0.000	0.000	102.605	43.762	0.825	MWD+IFR1+MS
22600.000	90.000	179.725	9212.997	110.563	0.000	103.314	-0.000	110.563	0.000	0.000	103.329	43.823	0.818	MWD+IFR1+MS
22700.000	90.000	179.725	9212.997	111.327	0.000	104.039	-0.000	111.327	0.000	0.000	104.054	43.884	0.811	MWD+IFR1+MS
22800.000	90.000	179.725	9212.997	112.091	0.000	104.764	-0.000	112.091	0.000	0.000	104.780	43.945	0.804	MWD+IFR1+MS
22900.000	90.000	179.725	9212.997	112.856	0.000	105.491	-0.000	112.856	0.000	0.000	105.506	44.007	0.798	MWD+IFR1+MS
23000.000	90.000	179.725	9212.997	113.620	0.000	106.217	-0.000	113.620	0.000	0.000	106.232	44.069	0.791	MWD+IFR1+MS
23100.000	90.000	179.725	9212.997	114.385	0.000	106.944	-0.000	114.385	0.000	0.000	106.960	44.132	0.785	MWD+IFR1+MS
23200.000	90.000	179.725	9212.997	115.151	0.000	107.672	-0.000	115.151	0.000	0.000	107.687	44.195	0.778	MWD+IFR1+MS
23300.000	90.000	179.725	9212.997	115.916	0.000	108.401	-0.000	115.916	0.000	0.000	108.416	44.258	0.772	MWD+IFR1+MS
23400.000	90.000	179.725	9212.997	116.682	0.000	109.129	-0.000	116.682	0.000	0.000	109.144	44.322	0.766	MWD+IFR1+MS
23500.000	90.000	179.725	9212.997	117.449	0.000	109.859	-0.000	117.449	0.000	0.000	109.874	44.386	0.760	MWD+IFR1+MS
23600.000	90.000	179.725	9212.997	118.215	0.000	110.589	-0.000	118.215	0.000	0.000	110.603	44.451	0.754	MWD+IFR1+MS
23700.000	90.000	179.725	9212.997	118.982	0.000	111.319	-0.000	118.982	0.000	0.000	111.334	44.516	0.748	MWD+IFR1+MS
23800.000	90.000	179.725	9212.997	119.748	0.000	112.050	-0.000	119.748	0.000	0.000	112.064	44.581	0.742	MWD+IFR1+MS
23900.000	90.000	179.725	9212.997	120.516	0.000	112.781	-0.000	120.516	0.000	0.000	112.796	44.647	0.736	MWD+IFR1+MS
24000.000	90.000	179.725	9212.997	121.283	0.000	113.512	-0.000	121.283	0.000	0.000	113.527	44.713	0.730	MWD+IFR1+MS
24100.000	90.000	179.725	9212.997	122.050	0.000	114.245	-0.000	122.050	0.000	0.000	114.259	44.779	0.724	MWD+IFR1+MS
24200.000	90.000	179.725	9212.997	122.818	0.000	114.977	-0.000	122.818	0.000	0.000	114.992	44.846	0.719	MWD+IFR1+MS
24300.000	90.000	179.725	9212.997	123.586	0.000	115.710	-0.000	123.586	0.000	0.000	115.725	44.913	0.713	MWD+IFR1+MS
24400.000	90.000	179.725	9212.997	124.354	0.000	116.444	-0.000	124.354	0.000	0.000	116.458	44.980	0.707	MWD+IFR1+MS
24500.000	90.000	179.725	9212.997	125.123	0.000	117.177	-0.000	125.123	0.000	0.000	117.192	45.048	0.702	MWD+IFR1+MS
24600.000	90.000	179.725	9212.997	125.891	0.000	117.912	-0.000	125.891	0.000	0.000	117.926	45.117	0.697	MWD+IFR1+MS
24700.000	90.000	179.725	9212.997	126.660	0.000	118.646	-0.000	126.660	0.000	0.000	118.661	45.185	0.691	MWD+IFR1+MS
24710.755	90.000	179.725	9212.997	126.743	0.000	118.725	-0.000	126.743	0.000	0.000	118.739	45.193	0.691	MWD+IFR1+MS
24760.711	90.000	179.725	9212.997	127.126	0.000	119.091	-0.000	127.126	0.000	0.000	119.105	45.227	0.688	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 19 DTD South 121H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 5	9496.74	440276.30	625392.70	6035.00	RECTANGLE
LTP 5	24710.71	424617.90	625467.90	6035.00	RECTANGLE
BHL 5	24760.71	424567.90	625468.00	6035.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

XTO ENERGY INC
DELAWARE BASIN

(20") x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

VJK

31MAR22

APPRV

DRAWING NO.

SDT-2856

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

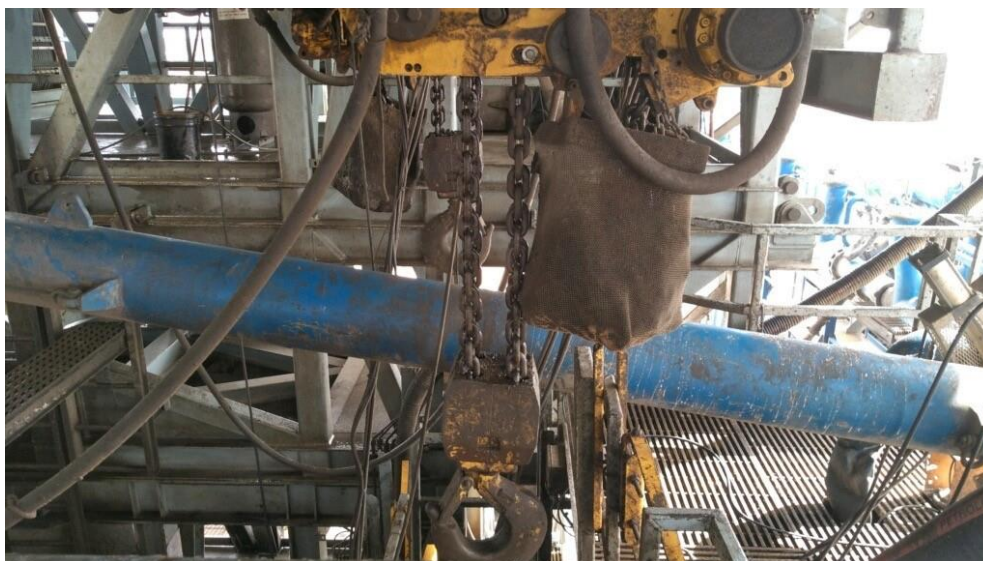


Figure 2: BOP Winch System

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.

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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 ^a	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 ^a	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^a	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

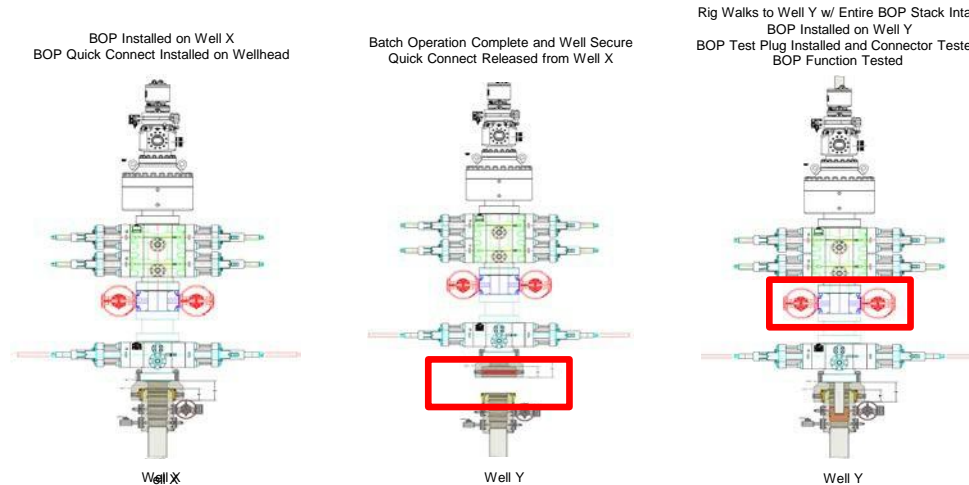
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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.

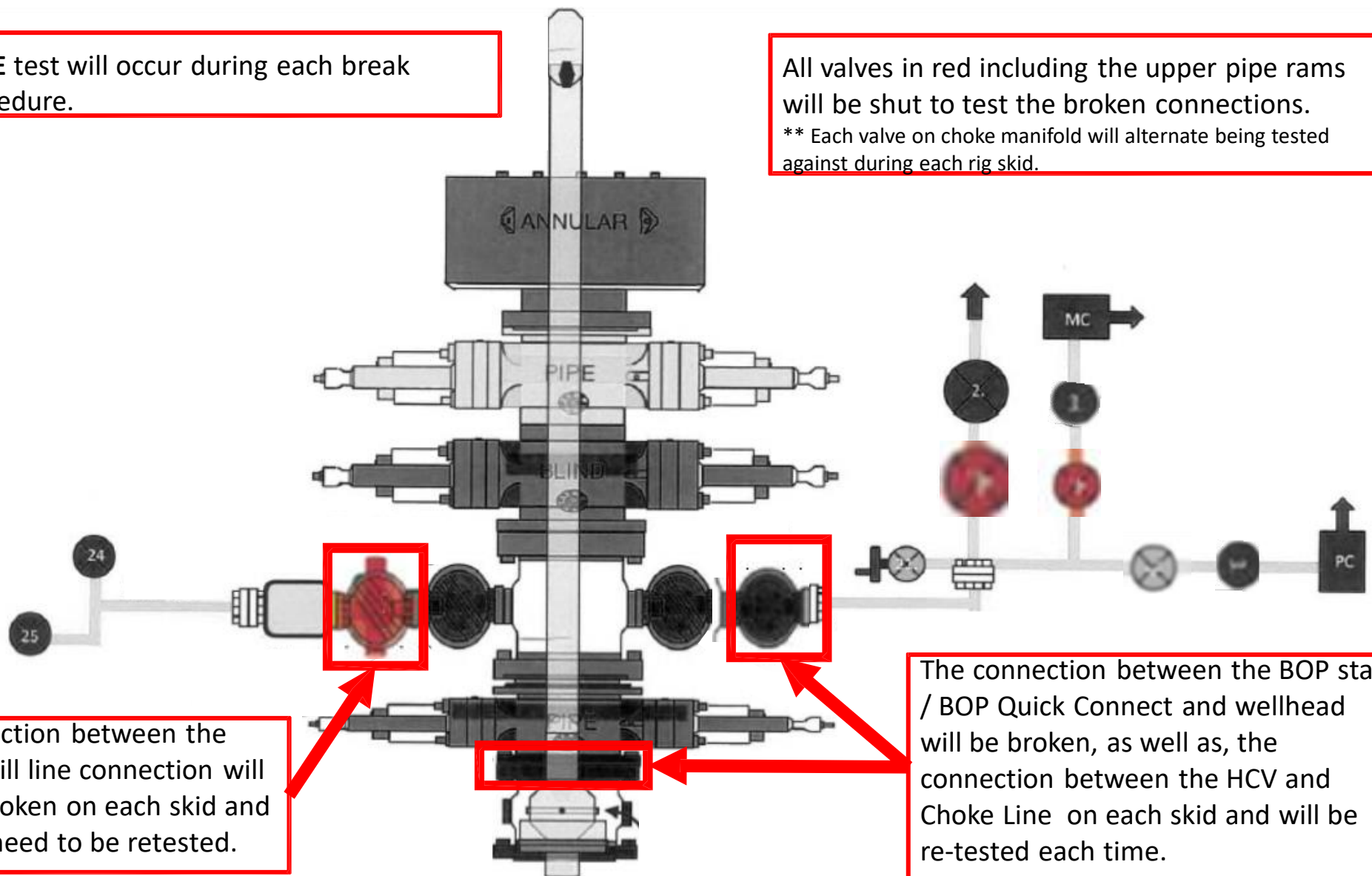
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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 rig skid.



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

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.

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

CONDITIONS

Action 330339

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 330339
	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.	4/17/2024