

Well Name: POKER LAKE UNIT 19 DTD	Well Location: T24S / R30E / SEC 19 / NWNE /	County or Parish/State:
Well Number: 412H	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: 3001553838	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2780145

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/18/2024

Time Sundry Submitted: 06:46

Date proposed operation will begin: 04/18/2024

Procedure Description: POKER LAKE UNIT 19 DTD 412H Sundry Language 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: 197' FNL & 1566' FEL of Section 19-T24S-R30E 272' FNL & 1566' FEL of Section 19-T24S-R30E FTP: 100' FSL & 330' FEL of Section 19-T24S-R30E 100' FNL & 815' FEL of Section 19-T24S-R30E LTP: 2310' FSL & 330' FEL of Section 31-T23S-R30E 100' FSL & 828' FEL of Section 31-T24S-R30E BHL: 2440' FSL & 330' FEL of Section 31-T23S-R30E 50' FSL & 828' FEL of Section 31-T24S-R30E Proposed total depth will change from 30153' MD; 11530' TVD (Wolfcamp) to 23,487' MD; TVD 8017' (Wolfcamp). 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

PLU_19_DTD_412H_BLM_APD_Change_Sundry_Attachments_20240321152517.pdf

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Conditions of Approval

Additional

Sec19_24S_30E_NMP_Sundry_2780145_Poker_Lake_Unit_19_DTD_412H_COAs_20240328091402.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: RICHARD REDUS	Signed on: MAR 21, 2024 03:21 PM
Name: XTO PERMIAN OPERATING LLC	
Title: Permitting Manager	
Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY	
City: SPRING	State: TX
Phone: (720) 539-1673	
Email address: RICHARD.L.REDUS@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: 04/01/2024
Signature: Chris Walls	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
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 recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

Proposed total depth will change from 30153 MD; 11530 TVD (Wolfcamp) to 23,487 MD; TVD 8017 (Wolfcamp).

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: NWNE / 197 FNL / 1566 FEL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.209765 / LONG: -103.917271 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 330 FSL / 330 FEL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22535 / LONG: -103.91329 (TVD: 11530 feet, MD: 17300 feet)

PPP: SESE / 100 FSL / 330 FEL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.210623 / LONG: -103.913278 (TVD: 11530 feet, MD: 12000 feet)

BHL: NESE / 2440 FSL / 330 FEL / TWSP: 23S / RANGE: 30E / SECTION: 31 / LAT: 32.260686 / LONG: -103.913253 (TVD: 11530 feet, MD: 30153 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 19 DTD 412H
LOCATION:	Sec 19-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2780145** on 03/28/2024. 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. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

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

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@blm.gov; (575) 361-2822

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

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

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

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.
- C. **DRILLING MUD:** Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.
- D. **WASTE MATERIAL AND FLUIDS:** All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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

Well Plan Report - Poker Lake Unit 19 DTD South 412H

Measured Depth: 23487.25 ft

TVD RKB: 8017.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 440161.40 ft

Easting: 628834.80 ft

RKB: 3205.00 ft

Ground Level: 3173.00 ft

North Reference: Grid

Convergence Angle: 0.22 Deg

Plan Sections

Poker Lake Unit 19 DTD South 412H

Measured			TVD			Build	Turn	Dogleg		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate		
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	Target	
0.00	0.00	0.00	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		
1524.11	8.48	76.20	1522.56	7.47	30.43	2.00	0.00	2.00		
6331.57	8.48	76.20	6277.44	176.63	719.07	0.00	0.00	0.00		
6755.68	0.00	0.00	6700.00	184.10	749.50	-2.00	0.00	2.00		
7356.48	0.00	0.00	7300.80	184.10	749.50	0.00	0.00	0.00		
8481.48	90.00	179.72	8017.00	-532.09	752.95	8.00	0.00	8.00		
23437.13	90.00	179.72	8017.00	-15487.57	824.99	0.00	0.00	0.00	LTP 31	
23487.25	90.00	179.72	8017.00	-15537.69	825.23	0.00	0.00	0.00	BHL 31	

Position Uncertainty

Poker Lake Unit 19 DTD South 412H

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	2.405	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.441	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.483	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.528	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.577	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.630	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	76.200	1199.980	4.982	0.000	4.536	0.000	2.686	0.000	0.000	5.190	4.298	-43.651	MWD+IFR1+MS
1300.000	4.000	76.200	1299.838	5.758	0.000	4.902	0.000	2.745	0.000	0.000	5.813	4.847	-27.006	MWD+IFR1+MS
1400.000	6.000	76.200	1399.452	6.454	0.000	5.268	0.000	2.810	0.000	0.000	6.478	5.262	-17.565	MWD+IFR1+MS
1500.000	8.000	76.200	1498.702	7.093	0.000	5.634	0.000	2.883	0.000	0.000	7.126	5.633	-12.566	MWD+IFR1+MS
1524.108	8.482	76.200	1522.561	7.157	0.000	5.715	0.000	2.895	0.000	0.000	7.198	5.714	-12.516	MWD+IFR1+MS
1600.000	8.482	76.200	1597.622	7.365	0.000	5.975	0.000	2.947	0.000	0.000	7.404	5.974	-12.369	MWD+IFR1+MS
1700.000	8.482	76.200	1696.529	7.651	0.000	6.337	0.000	3.020	0.000	0.000	7.688	6.335	-11.685	MWD+IFR1+MS
1800.000	8.482	76.200	1795.435	7.950	0.000	6.706	0.000	3.095	0.000	0.000	7.985	6.702	-10.755	MWD+IFR1+MS
1900.000	8.482	76.200	1894.341	8.254	0.000	7.075	0.000	3.174	0.000	0.000	8.289	7.069	-9.823	MWD+IFR1+MS
2000.000	8.482	76.200	1993.247	8.565	0.000	7.444	0.000	3.255	0.000	0.000	8.598	7.435	-8.890	MWD+IFR1+MS
2100.000	8.482	76.200	2092.153	8.880	0.000	7.813	0.000	3.338	0.000	0.000	8.912	7.801	-7.959	MWD+IFR1+MS
2200.000	8.482	76.200	2191.060	9.199	0.000	8.183	0.000	3.424	0.000	0.000	9.231	8.167	-7.031	MWD+IFR1+MS
2300.000	8.482	76.200	2289.966	9.522	0.000	8.552	0.000	3.512	0.000	0.000	9.554	8.533	-6.108	MWD+IFR1+MS
2400.000	8.482	76.200	2388.872	9.849	0.000	8.922	0.000	3.601	0.000	0.000	9.881	8.899	-5.191	MWD+IFR1+MS
2500.000	8.482	76.200	2487.778	10.179	0.000	9.291	0.000	3.693	0.000	0.000	10.211	9.264	-4.282	MWD+IFR1+MS
2600.000	8.482	76.200	2586.684	10.512	0.000	9.661	0.000	3.786	0.000	0.000	10.544	9.630	-3.382	MWD+IFR1+MS
2700.000	8.482	76.200	2685.590	10.848	0.000	10.031	0.000	3.881	0.000	0.000	10.880	9.995	-2.493	MWD+IFR1+MS
2800.000	8.482	76.200	2784.497	11.186	0.000	10.400	0.000	3.978	0.000	0.000	11.218	10.361	-1.616	MWD+IFR1+MS
2900.000	8.482	76.200	2883.403	11.526	0.000	10.770	0.000	4.076	0.000	0.000	11.559	10.726	-0.752	MWD+IFR1+MS

3000.000	8.482	76.200	2982.309	11.869	0.000	11.140	0.000	4.176	0.000	0.000	11.901	11.092	0.098	MWD+IFR1+MS
3100.000	8.482	76.200	3081.215	12.213	0.000	11.510	0.000	4.278	0.000	0.000	12.246	11.457	0.933	MWD+IFR1+MS
3200.000	8.482	76.200	3180.121	12.558	0.000	11.879	0.000	4.381	0.000	0.000	12.592	11.823	1.752	MWD+IFR1+MS
3300.000	8.482	76.200	3279.028	12.906	0.000	12.249	0.000	4.485	0.000	0.000	12.940	12.188	2.555	MWD+IFR1+MS
3400.000	8.482	76.200	3377.934	13.254	0.000	12.619	0.000	4.591	0.000	0.000	13.289	12.554	3.341	MWD+IFR1+MS
3500.000	8.482	76.200	3476.840	13.604	0.000	12.989	0.000	4.699	0.000	0.000	13.639	12.919	4.111	MWD+IFR1+MS
3600.000	8.482	76.200	3575.746	13.956	0.000	13.359	0.000	4.808	0.000	0.000	13.991	13.285	4.862	MWD+IFR1+MS
3700.000	8.482	76.200	3674.652	14.308	0.000	13.729	0.000	4.919	0.000	0.000	14.343	13.651	5.596	MWD+IFR1+MS
3800.000	8.482	76.200	3773.558	14.661	0.000	14.099	0.000	5.031	0.000	0.000	14.697	14.017	6.313	MWD+IFR1+MS
3900.000	8.482	76.200	3872.465	15.016	0.000	14.469	0.000	5.145	0.000	0.000	15.051	14.383	7.011	MWD+IFR1+MS
4000.000	8.482	76.200	3971.371	15.371	0.000	14.839	0.000	5.260	0.000	0.000	15.407	14.749	7.692	MWD+IFR1+MS
4100.000	8.482	76.200	4070.277	15.727	0.000	15.209	0.000	5.377	0.000	0.000	15.763	15.115	8.355	MWD+IFR1+MS
4200.000	8.482	76.200	4169.183	16.084	0.000	15.579	0.000	5.495	0.000	0.000	16.120	15.481	9.001	MWD+IFR1+MS
4300.000	8.482	76.200	4268.089	16.442	0.000	15.949	0.000	5.615	0.000	0.000	16.477	15.848	9.629	MWD+IFR1+MS
4400.000	8.482	76.200	4366.996	16.800	0.000	16.319	0.000	5.737	0.000	0.000	16.835	16.214	10.241	MWD+IFR1+MS
4500.000	8.482	76.200	4465.902	17.159	0.000	16.689	0.000	5.861	0.000	0.000	17.194	16.581	10.836	MWD+IFR1+MS
4600.000	8.482	76.200	4564.808	17.519	0.000	17.059	0.000	5.986	0.000	0.000	17.553	16.948	11.414	MWD+IFR1+MS
4700.000	8.482	76.200	4663.714	17.879	0.000	17.429	0.000	6.112	0.000	0.000	17.913	17.314	11.977	MWD+IFR1+MS
4800.000	8.482	76.200	4762.620	18.240	0.000	17.799	0.000	6.241	0.000	0.000	18.273	17.681	12.524	MWD+IFR1+MS
4900.000	8.482	76.200	4861.526	18.601	0.000	18.169	0.000	6.371	0.000	0.000	18.634	18.048	13.056	MWD+IFR1+MS
5000.000	8.482	76.200	4960.433	18.963	0.000	18.539	0.000	6.503	0.000	0.000	18.995	18.415	13.574	MWD+IFR1+MS
5100.000	8.482	76.200	5059.339	19.325	0.000	18.909	0.000	6.637	0.000	0.000	19.356	18.782	14.077	MWD+IFR1+MS
5200.000	8.482	76.200	5158.245	19.687	0.000	19.280	0.000	6.773	0.000	0.000	19.718	19.150	14.566	MWD+IFR1+MS
5300.000	8.482	76.200	5257.151	20.050	0.000	19.650	0.000	6.910	0.000	0.000	20.080	19.517	15.041	MWD+IFR1+MS
5400.000	8.482	76.200	5356.057	20.413	0.000	20.020	0.000	7.049	0.000	0.000	20.442	19.885	15.504	MWD+IFR1+MS
5500.000	8.482	76.200	5454.964	20.777	0.000	20.390	0.000	7.191	0.000	0.000	20.805	20.252	15.954	MWD+IFR1+MS
5600.000	8.482	76.200	5553.870	21.141	0.000	20.760	0.000	7.334	0.000	0.000	21.168	20.620	16.391	MWD+IFR1+MS
5700.000	8.482	76.200	5652.776	21.506	0.000	21.130	0.000	7.479	0.000	0.000	21.531	20.988	16.817	MWD+IFR1+MS
5800.000	8.482	76.200	5751.682	21.870	0.000	21.500	0.000	7.627	0.000	0.000	21.894	21.356	17.231	MWD+IFR1+MS
5900.000	8.482	76.200	5850.588	22.235	0.000	21.870	0.000	7.776	0.000	0.000	22.258	21.724	17.633	MWD+IFR1+MS
6000.000	8.482	76.200	5949.494	22.600	0.000	22.240	0.000	7.927	0.000	0.000	22.622	22.092	18.025	MWD+IFR1+MS
6100.000	8.482	76.200	6048.401	22.966	0.000	22.611	0.000	8.081	0.000	0.000	22.986	22.460	18.407	MWD+IFR1+MS
6200.000	8.482	76.200	6147.307	23.332	0.000	22.981	0.000	8.236	0.000	0.000	23.350	22.828	18.778	MWD+IFR1+MS

6300.000	8.482	76.200	6246.213	23.698	0.000	23.351	0.000	8.394	0.000	0.000	23.714	23.197	19.140	MWD+IFR1+MS
6331.572	8.482	76.200	6277.439	23.811	0.000	23.466	0.000	8.444	0.000	0.000	23.825	23.313	19.155	MWD+IFR1+MS
6400.000	7.114	76.200	6345.233	24.072	0.000	23.713	0.000	8.554	0.000	0.000	24.072	23.564	18.935	MWD+IFR1+MS
6500.000	5.114	76.200	6444.660	24.495	0.000	24.076	0.000	8.716	0.000	0.000	24.494	23.932	16.395	MWD+IFR1+MS
6600.000	3.114	76.200	6544.397	24.915	0.000	24.435	0.000	8.875	0.000	0.000	24.943	24.296	13.670	MWD+IFR1+MS
6700.000	1.114	76.200	6644.324	25.299	0.000	24.789	0.000	9.031	0.000	0.000	25.388	24.651	11.674	MWD+IFR1+MS
6755.680	0.000	0.000	6700.000	24.875	0.000	25.551	0.000	9.117	0.000	0.000	25.578	24.847	11.188	MWD+IFR1+MS
6800.000	0.000	0.000	6744.320	25.027	0.000	25.694	0.000	9.185	0.000	0.000	25.721	24.999	11.223	MWD+IFR1+MS
6900.000	0.000	0.000	6844.320	25.369	0.000	26.019	0.000	9.341	0.000	0.000	26.045	25.342	11.110	MWD+IFR1+MS
7000.000	0.000	0.000	6944.320	25.715	0.000	26.348	0.000	9.499	0.000	0.000	26.372	25.691	10.735	MWD+IFR1+MS
7100.000	0.000	0.000	7044.320	26.061	0.000	26.679	0.000	9.660	0.000	0.000	26.700	26.039	10.346	MWD+IFR1+MS
7200.000	0.000	0.000	7144.320	26.408	0.000	27.010	0.000	9.824	0.000	0.000	27.028	26.388	9.943	MWD+IFR1+MS
7300.000	0.000	0.000	7244.320	26.754	0.000	27.341	0.000	9.991	0.000	0.000	27.358	26.737	9.525	MWD+IFR1+MS
7356.480	0.000	0.000	7300.800	26.948	0.000	27.526	0.000	10.086	0.000	0.000	27.543	26.931	9.499	MWD+IFR1+MS
7400.000	3.482	179.724	7344.293	27.027	0.000	27.663	-0.000	10.160	0.000	0.000	27.681	27.086	9.790	MWD+IFR1+MS
7500.000	11.482	179.724	7443.362	27.653	0.000	27.971	-0.000	10.377	0.000	0.000	28.208	27.960	77.276	MWD+IFR1+MS
7600.000	19.482	179.724	7539.655	28.552	0.000	28.272	-0.000	10.821	0.000	0.000	29.862	28.271	91.087	MWD+IFR1+MS
7700.000	27.482	179.724	7631.299	28.977	0.000	28.558	-0.000	11.573	0.000	0.000	31.301	28.553	92.186	MWD+IFR1+MS
7800.000	35.482	179.724	7716.511	28.980	0.000	28.828	-0.000	12.672	0.000	0.000	32.502	28.817	92.687	MWD+IFR1+MS
7900.000	43.482	179.724	7793.631	28.628	0.000	29.080	-0.000	14.096	0.000	0.000	33.462	29.063	93.072	MWD+IFR1+MS
8000.000	51.482	179.724	7861.159	28.008	0.000	29.312	-0.000	15.784	0.000	0.000	34.190	29.290	93.460	MWD+IFR1+MS
8100.000	59.482	179.724	7917.780	27.228	0.000	29.525	-0.000	17.660	0.000	0.000	34.704	29.495	93.899	MWD+IFR1+MS
8200.000	67.482	179.724	7962.392	26.416	0.000	29.717	-0.000	19.646	0.000	0.000	35.032	29.678	94.414	MWD+IFR1+MS
8300.000	75.482	179.724	7994.127	25.721	0.000	29.888	-0.000	21.669	0.000	0.000	35.211	29.838	95.017	MWD+IFR1+MS
8400.000	83.482	179.724	8012.367	25.293	0.000	30.037	-0.000	23.667	0.000	0.000	35.287	29.974	95.696	MWD+IFR1+MS
8481.480	90.000	179.724	8016.997	24.773	0.000	30.137	-0.000	24.773	0.000	0.000	35.307	30.063	96.263	MWD+IFR1+MS
8500.000	90.000	179.724	8016.997	24.815	0.000	30.157	-0.000	24.815	0.000	0.000	35.311	30.081	96.393	MWD+IFR1+MS
8600.000	90.000	179.724	8016.997	25.001	0.000	30.283	-0.000	25.001	0.000	0.000	35.328	30.190	97.130	MWD+IFR1+MS
8700.000	90.000	179.724	8016.997	25.215	0.000	30.431	-0.000	25.215	0.000	0.000	35.349	30.320	97.923	MWD+IFR1+MS
8800.000	90.000	179.724	8016.997	25.451	0.000	30.597	-0.000	25.451	0.000	0.000	35.372	30.466	98.779	MWD+IFR1+MS
8900.000	90.000	179.724	8016.997	25.709	0.000	30.782	-0.000	25.709	0.000	0.000	35.398	30.628	99.708	MWD+IFR1+MS
9000.000	90.000	179.724	8016.997	25.988	0.000	30.985	-0.000	25.988	0.000	0.000	35.428	30.804	100.725	MWD+IFR1+MS
9100.000	90.000	179.724	8016.997	26.287	0.000	31.204	-0.000	26.287	0.000	0.000	35.461	30.994	101.844	MWD+IFR1+MS

9200.000	90.000	179.724	8016.997	26.607	0.000	31.442	-0.000	26.607	0.000	0.000	35.500	31.197	103.085	MWD+IFR1+MS
9300.000	90.000	179.724	8016.997	26.945	0.000	31.695	-0.000	26.945	0.000	0.000	35.544	31.411	104.470	MWD+IFR1+MS
9400.000	90.000	179.724	8016.997	27.302	0.000	31.965	-0.000	27.302	0.000	0.000	35.595	31.636	106.023	MWD+IFR1+MS
9500.000	90.000	179.724	8016.997	27.676	0.000	32.251	-0.000	27.676	0.000	0.000	35.653	31.869	107.774	MWD+IFR1+MS
9600.000	90.000	179.724	8016.997	28.068	0.000	32.553	-0.000	28.068	0.000	0.000	35.721	32.108	109.754	MWD+IFR1+MS
9700.000	90.000	179.724	8016.997	28.475	0.000	32.869	-0.000	28.475	0.000	0.000	35.801	32.352	111.997	MWD+IFR1+MS
9800.000	90.000	179.724	8016.997	28.899	0.000	33.201	-0.000	28.899	0.000	0.000	35.894	32.596	114.532	MWD+IFR1+MS
9900.000	90.000	179.724	8016.997	29.337	0.000	33.546	-0.000	29.337	0.000	0.000	36.005	32.839	117.380	MWD+IFR1+MS
10000.000	90.000	179.724	8016.997	29.789	0.000	33.905	-0.000	29.789	0.000	0.000	36.135	33.075	120.546	MWD+IFR1+MS
10100.000	90.000	179.724	8016.997	30.255	0.000	34.278	-0.000	30.255	0.000	0.000	36.290	33.302	124.004	MWD+IFR1+MS
10200.000	90.000	179.724	8016.997	30.734	0.000	34.663	-0.000	30.734	0.000	0.000	36.471	33.514	127.691	MWD+IFR1+MS
10300.000	90.000	179.724	8016.997	31.225	0.000	35.061	-0.000	31.225	0.000	0.000	36.682	33.710	131.508	MWD+IFR1+MS
10400.000	90.000	179.724	8016.997	31.728	0.000	35.471	-0.000	31.728	0.000	0.000	36.925	33.887	-44.669	MWD+IFR1+MS
10500.000	90.000	179.724	8016.997	32.243	0.000	35.893	-0.000	32.243	0.000	0.000	37.200	34.045	-40.966	MWD+IFR1+MS
10600.000	90.000	179.724	8016.997	32.768	0.000	36.325	-0.000	32.768	0.000	0.000	37.505	34.183	-37.487	MWD+IFR1+MS
10700.000	90.000	179.724	8016.997	33.303	0.000	36.769	-0.000	33.303	0.000	0.000	37.839	34.304	-34.299	MWD+IFR1+MS
10800.000	90.000	179.724	8016.997	33.848	0.000	37.223	-0.000	33.848	0.000	0.000	38.200	34.409	-31.432	MWD+IFR1+MS
10900.000	90.000	179.724	8016.997	34.402	0.000	37.687	-0.000	34.402	0.000	0.000	38.584	34.502	-28.886	MWD+IFR1+MS
11000.000	90.000	179.724	8016.997	34.966	0.000	38.161	-0.000	34.966	0.000	0.000	38.990	34.583	-26.641	MWD+IFR1+MS
11100.000	90.000	179.724	8016.997	35.537	0.000	38.645	-0.000	35.537	0.000	0.000	39.415	34.655	-24.668	MWD+IFR1+MS
11200.000	90.000	179.724	8016.997	36.117	0.000	39.137	-0.000	36.117	0.000	0.000	39.857	34.720	-22.934	MWD+IFR1+MS
11300.000	90.000	179.724	8016.997	36.704	0.000	39.638	-0.000	36.704	0.000	0.000	40.314	34.778	-21.408	MWD+IFR1+MS
11400.000	90.000	179.724	8016.997	37.298	0.000	40.147	-0.000	37.298	0.000	0.000	40.784	34.832	-20.060	MWD+IFR1+MS
11500.000	90.000	179.724	8016.997	37.900	0.000	40.664	-0.000	37.900	0.000	0.000	41.268	34.882	-18.866	MWD+IFR1+MS
11600.000	90.000	179.724	8016.997	38.508	0.000	41.190	-0.000	38.508	0.000	0.000	41.763	34.928	-17.803	MWD+IFR1+MS
11700.000	90.000	179.724	8016.997	39.122	0.000	41.722	-0.000	39.122	0.000	0.000	42.268	34.972	-16.853	MWD+IFR1+MS
11800.000	90.000	179.724	8016.997	39.742	0.000	42.262	-0.000	39.742	0.000	0.000	42.784	35.013	-15.999	MWD+IFR1+MS
11900.000	90.000	179.724	8016.997	40.368	0.000	42.808	-0.000	40.368	0.000	0.000	43.308	35.053	-15.229	MWD+IFR1+MS
12000.000	90.000	179.724	8016.997	41.000	0.000	43.361	-0.000	41.000	0.000	0.000	43.842	35.091	-14.532	MWD+IFR1+MS
12100.000	90.000	179.724	8016.997	41.636	0.000	43.921	-0.000	41.636	0.000	0.000	44.383	35.128	-13.898	MWD+IFR1+MS
12200.000	90.000	179.724	8016.997	42.278	0.000	44.487	-0.000	42.278	0.000	0.000	44.932	35.164	-13.319	MWD+IFR1+MS
12300.000	90.000	179.724	8016.997	42.924	0.000	45.058	-0.000	42.924	0.000	0.000	45.489	35.200	-12.789	MWD+IFR1+MS
12400.000	90.000	179.724	8016.997	43.575	0.000	45.635	-0.000	43.575	0.000	0.000	46.052	35.234	-12.302	MWD+IFR1+MS

12500.000	90.000	179.724	8016.997	44.231	0.000	46.218	-0.000	44.231	0.000	0.000	46.621	35.268	-11.852	MWD+IFR1+MS
12600.000	90.000	179.724	8016.997	44.890	0.000	46.806	-0.000	44.890	0.000	0.000	47.197	35.302	-11.436	MWD+IFR1+MS
12700.000	90.000	179.724	8016.997	45.554	0.000	47.399	-0.000	45.554	0.000	0.000	47.779	35.336	-11.051	MWD+IFR1+MS
12800.000	90.000	179.724	8016.997	46.221	0.000	47.997	-0.000	46.221	0.000	0.000	48.366	35.369	-10.692	MWD+IFR1+MS
12900.000	90.000	179.724	8016.997	46.892	0.000	48.600	-0.000	46.892	0.000	0.000	48.959	35.402	-10.357	MWD+IFR1+MS
13000.000	90.000	179.724	8016.997	47.566	0.000	49.207	-0.000	47.566	0.000	0.000	49.557	35.435	-10.044	MWD+IFR1+MS
13100.000	90.000	179.724	8016.997	48.244	0.000	49.819	-0.000	48.244	0.000	0.000	50.160	35.469	-9.751	MWD+IFR1+MS
13200.000	90.000	179.724	8016.997	48.925	0.000	50.434	-0.000	48.925	0.000	0.000	50.767	35.502	-9.476	MWD+IFR1+MS
13300.000	90.000	179.724	8016.997	49.609	0.000	51.054	-0.000	49.609	0.000	0.000	51.379	35.535	-9.218	MWD+IFR1+MS
13400.000	90.000	179.724	8016.997	50.295	0.000	51.678	-0.000	50.295	0.000	0.000	51.995	35.568	-8.974	MWD+IFR1+MS
13500.000	90.000	179.724	8016.997	50.985	0.000	52.305	-0.000	50.985	0.000	0.000	52.616	35.602	-8.744	MWD+IFR1+MS
13600.000	90.000	179.724	8016.997	51.678	0.000	52.937	-0.000	51.678	0.000	0.000	53.240	35.635	-8.526	MWD+IFR1+MS
13700.000	90.000	179.724	8016.997	52.373	0.000	53.571	-0.000	52.373	0.000	0.000	53.868	35.669	-8.320	MWD+IFR1+MS
13800.000	90.000	179.724	8016.997	53.070	0.000	54.209	-0.000	53.070	0.000	0.000	54.500	35.703	-8.124	MWD+IFR1+MS
13900.000	90.000	179.724	8016.997	53.770	0.000	54.850	-0.000	53.770	0.000	0.000	55.135	35.738	-7.938	MWD+IFR1+MS
14000.000	90.000	179.724	8016.997	54.473	0.000	55.495	-0.000	54.473	0.000	0.000	55.774	35.772	-7.762	MWD+IFR1+MS
14100.000	90.000	179.724	8016.997	55.177	0.000	56.142	-0.000	55.177	0.000	0.000	56.416	35.807	-7.593	MWD+IFR1+MS
14200.000	90.000	179.724	8016.997	55.884	0.000	56.793	-0.000	55.884	0.000	0.000	57.061	35.842	-7.433	MWD+IFR1+MS
14300.000	90.000	179.724	8016.997	56.592	0.000	57.446	-0.000	56.592	0.000	0.000	57.710	35.878	-7.279	MWD+IFR1+MS
14400.000	90.000	179.724	8016.997	57.303	0.000	58.102	-0.000	57.303	0.000	0.000	58.361	35.914	-7.133	MWD+IFR1+MS
14500.000	90.000	179.724	8016.997	58.016	0.000	58.760	-0.000	58.016	0.000	0.000	59.015	35.950	-6.993	MWD+IFR1+MS
14600.000	90.000	179.724	8016.997	58.730	0.000	59.422	-0.000	58.730	0.000	0.000	59.672	35.986	-6.858	MWD+IFR1+MS
14700.000	90.000	179.724	8016.997	59.446	0.000	60.085	-0.000	59.446	0.000	0.000	60.331	36.023	-6.730	MWD+IFR1+MS
14800.000	90.000	179.724	8016.997	60.164	0.000	60.751	-0.000	60.164	0.000	0.000	60.993	36.060	-6.606	MWD+IFR1+MS
14900.000	90.000	179.724	8016.997	60.884	0.000	61.420	-0.000	60.884	0.000	0.000	61.657	36.097	-6.488	MWD+IFR1+MS
15000.000	90.000	179.724	8016.997	61.605	0.000	62.090	-0.000	61.605	0.000	0.000	62.324	36.135	-6.373	MWD+IFR1+MS
15100.000	90.000	179.724	8016.997	62.328	0.000	62.763	-0.000	62.328	0.000	0.000	62.993	36.173	-6.264	MWD+IFR1+MS
15200.000	90.000	179.724	8016.997	63.052	0.000	63.438	-0.000	63.052	0.000	0.000	63.664	36.212	-6.158	MWD+IFR1+MS
15300.000	90.000	179.724	8016.997	63.777	0.000	64.115	-0.000	63.777	0.000	0.000	64.338	36.251	-6.056	MWD+IFR1+MS
15400.000	90.000	179.724	8016.997	64.504	0.000	64.794	-0.000	64.504	0.000	0.000	65.013	36.290	-5.958	MWD+IFR1+MS
15500.000	90.000	179.724	8016.997	65.233	0.000	65.475	-0.000	65.233	0.000	0.000	65.691	36.330	-5.863	MWD+IFR1+MS
15600.000	90.000	179.724	8016.997	65.962	0.000	66.157	-0.000	65.962	0.000	0.000	66.371	36.370	-5.772	MWD+IFR1+MS
15700.000	90.000	179.724	8016.997	66.693	0.000	66.842	-0.000	66.693	0.000	0.000	67.052	36.410	-5.683	MWD+IFR1+MS

15800.000	90.000	179.724	8016.997	67.425	0.000	67.528	-0.000	67.425	0.000	0.000	67.735	36.451	-5.598	MWD+IFR1+MS
15900.000	90.000	179.724	8016.997	68.159	0.000	68.216	-0.000	68.159	0.000	0.000	68.420	36.492	-5.515	MWD+IFR1+MS
16000.000	90.000	179.724	8016.997	68.893	0.000	68.905	-0.000	68.893	0.000	0.000	69.107	36.534	-5.435	MWD+IFR1+MS
16100.000	90.000	179.724	8016.997	69.629	0.000	69.596	-0.000	69.629	0.000	0.000	69.795	36.576	-5.358	MWD+IFR1+MS
16200.000	90.000	179.724	8016.997	70.365	0.000	70.289	-0.000	70.365	0.000	0.000	70.485	36.618	-5.282	MWD+IFR1+MS
16300.000	90.000	179.724	8016.997	71.103	0.000	70.983	-0.000	71.103	0.000	0.000	71.177	36.661	-5.210	MWD+IFR1+MS
16400.000	90.000	179.724	8016.997	71.841	0.000	71.679	-0.000	71.841	0.000	0.000	71.870	36.704	-5.139	MWD+IFR1+MS
16500.000	90.000	179.724	8016.997	72.581	0.000	72.376	-0.000	72.581	0.000	0.000	72.564	36.747	-5.070	MWD+IFR1+MS
16600.000	90.000	179.724	8016.997	73.321	0.000	73.074	-0.000	73.321	0.000	0.000	73.260	36.791	-5.004	MWD+IFR1+MS
16700.000	90.000	179.724	8016.997	74.063	0.000	73.774	-0.000	74.063	0.000	0.000	73.958	36.836	-4.939	MWD+IFR1+MS
16800.000	90.000	179.724	8016.997	74.805	0.000	74.475	-0.000	74.805	0.000	0.000	74.657	36.880	-4.876	MWD+IFR1+MS
16900.000	90.000	179.724	8016.997	75.548	0.000	75.177	-0.000	75.548	0.000	0.000	75.357	36.926	-4.815	MWD+IFR1+MS
17000.000	90.000	179.724	8016.997	76.292	0.000	75.881	-0.000	76.292	0.000	0.000	76.058	36.971	-4.756	MWD+IFR1+MS
17100.000	90.000	179.724	8016.997	77.037	0.000	76.585	-0.000	77.037	0.000	0.000	76.761	37.017	-4.698	MWD+IFR1+MS
17200.000	90.000	179.724	8016.997	77.783	0.000	77.291	-0.000	77.783	0.000	0.000	77.464	37.063	-4.641	MWD+IFR1+MS
17300.000	90.000	179.724	8016.997	78.529	0.000	77.998	-0.000	78.529	0.000	0.000	78.169	37.110	-4.587	MWD+IFR1+MS
17400.000	90.000	179.724	8016.997	79.276	0.000	78.706	-0.000	79.276	0.000	0.000	78.875	37.157	-4.533	MWD+IFR1+MS
17500.000	90.000	179.724	8016.997	80.024	0.000	79.415	-0.000	80.024	0.000	0.000	79.583	37.205	-4.481	MWD+IFR1+MS
17600.000	90.000	179.724	8016.997	80.773	0.000	80.125	-0.000	80.773	0.000	0.000	80.291	37.253	-4.430	MWD+IFR1+MS
17700.000	90.000	179.724	8016.997	81.522	0.000	80.837	-0.000	81.522	0.000	0.000	81.000	37.301	-4.381	MWD+IFR1+MS
17800.000	90.000	179.724	8016.997	82.272	0.000	81.549	-0.000	82.272	0.000	0.000	81.711	37.350	-4.332	MWD+IFR1+MS
17900.000	90.000	179.724	8016.997	83.022	0.000	82.262	-0.000	83.022	0.000	0.000	82.422	37.399	-4.285	MWD+IFR1+MS
18000.000	90.000	179.724	8016.997	83.773	0.000	82.976	-0.000	83.773	0.000	0.000	83.134	37.448	-4.239	MWD+IFR1+MS
18100.000	90.000	179.724	8016.997	84.525	0.000	83.691	-0.000	84.525	0.000	0.000	83.848	37.498	-4.194	MWD+IFR1+MS
18200.000	90.000	179.724	8016.997	85.277	0.000	84.407	-0.000	85.277	0.000	0.000	84.562	37.548	-4.150	MWD+IFR1+MS
18300.000	90.000	179.724	8016.997	86.030	0.000	85.123	-0.000	86.030	0.000	0.000	85.277	37.599	-4.107	MWD+IFR1+MS
18400.000	90.000	179.724	8016.997	86.784	0.000	85.841	-0.000	86.784	0.000	0.000	85.993	37.650	-4.065	MWD+IFR1+MS
18500.000	90.000	179.724	8016.997	87.538	0.000	86.559	-0.000	87.538	0.000	0.000	86.710	37.701	-4.024	MWD+IFR1+MS
18600.000	90.000	179.724	8016.997	88.292	0.000	87.279	-0.000	88.292	0.000	0.000	87.427	37.753	-3.984	MWD+IFR1+MS
18700.000	90.000	179.724	8016.997	89.048	0.000	87.999	-0.000	89.048	0.000	0.000	88.146	37.805	-3.945	MWD+IFR1+MS
18800.000	90.000	179.724	8016.997	89.803	0.000	88.719	-0.000	89.803	0.000	0.000	88.865	37.858	-3.907	MWD+IFR1+MS
18900.000	90.000	179.724	8016.997	90.559	0.000	89.441	-0.000	90.559	0.000	0.000	89.585	37.911	-3.869	MWD+IFR1+MS
19000.000	90.000	179.724	8016.997	91.316	0.000	90.163	-0.000	91.316	0.000	0.000	90.306	37.964	-3.832	MWD+IFR1+MS

19100.000	90.000	179.724	8016.997	92.073	0.000	90.886	-0.000	92.073	0.000	0.000	91.028	38.018	-3.796	MWD+IFR1+MS
19200.000	90.000	179.724	8016.997	92.830	0.000	91.609	-0.000	92.830	0.000	0.000	91.750	38.072	-3.761	MWD+IFR1+MS
19300.000	90.000	179.724	8016.997	93.588	0.000	92.334	-0.000	93.588	0.000	0.000	92.473	38.127	-3.727	MWD+IFR1+MS
19400.000	90.000	179.724	8016.997	94.347	0.000	93.059	-0.000	94.347	0.000	0.000	93.196	38.182	-3.693	MWD+IFR1+MS
19500.000	90.000	179.724	8016.997	95.106	0.000	93.784	-0.000	95.106	0.000	0.000	93.921	38.237	-3.660	MWD+IFR1+MS
19600.000	90.000	179.724	8016.997	95.865	0.000	94.510	-0.000	95.865	0.000	0.000	94.646	38.292	-3.627	MWD+IFR1+MS
19700.000	90.000	179.724	8016.997	96.625	0.000	95.237	-0.000	96.625	0.000	0.000	95.371	38.348	-3.595	MWD+IFR1+MS
19800.000	90.000	179.724	8016.997	97.385	0.000	95.965	-0.000	97.385	0.000	0.000	96.098	38.405	-3.564	MWD+IFR1+MS
19900.000	90.000	179.724	8016.997	98.145	0.000	96.693	-0.000	98.145	0.000	0.000	96.824	38.462	-3.533	MWD+IFR1+MS
20000.000	90.000	179.724	8016.997	98.906	0.000	97.421	-0.000	98.906	0.000	0.000	97.552	38.519	-3.503	MWD+IFR1+MS
20100.000	90.000	179.724	8016.997	99.667	0.000	98.150	-0.000	99.667	0.000	0.000	98.280	38.576	-3.474	MWD+IFR1+MS
20200.000	90.000	179.724	8016.997	100.429	0.000	98.880	-0.000	100.429	0.000	0.000	99.008	38.634	-3.445	MWD+IFR1+MS
20300.000	90.000	179.724	8016.997	101.191	0.000	99.610	-0.000	101.191	0.000	0.000	99.738	38.692	-3.416	MWD+IFR1+MS
20400.000	90.000	179.724	8016.997	101.953	0.000	100.341	-0.000	101.953	0.000	0.000	100.467	38.751	-3.388	MWD+IFR1+MS
20500.000	90.000	179.724	8016.997	102.716	0.000	101.072	-0.000	102.716	0.000	0.000	101.197	38.810	-3.361	MWD+IFR1+MS
20600.000	90.000	179.724	8016.997	103.478	0.000	101.804	-0.000	103.478	0.000	0.000	101.928	38.869	-3.334	MWD+IFR1+MS
20700.000	90.000	179.724	8016.997	104.242	0.000	102.536	-0.000	104.242	0.000	0.000	102.659	38.929	-3.308	MWD+IFR1+MS
20800.000	90.000	179.724	8016.997	105.005	0.000	103.269	-0.000	105.005	0.000	0.000	103.391	38.989	-3.282	MWD+IFR1+MS
20900.000	90.000	179.724	8016.997	105.769	0.000	104.002	-0.000	105.769	0.000	0.000	104.123	39.049	-3.256	MWD+IFR1+MS
21000.000	90.000	179.724	8016.997	106.533	0.000	104.736	-0.000	106.533	0.000	0.000	104.856	39.110	-3.231	MWD+IFR1+MS
21100.000	90.000	179.724	8016.997	107.298	0.000	105.470	-0.000	107.298	0.000	0.000	105.589	39.171	-3.207	MWD+IFR1+MS
21200.000	90.000	179.724	8016.997	108.063	0.000	106.205	-0.000	108.063	0.000	0.000	106.323	39.233	-3.182	MWD+IFR1+MS
21300.000	90.000	179.724	8016.997	108.828	0.000	106.940	-0.000	108.828	0.000	0.000	107.057	39.295	-3.158	MWD+IFR1+MS
21400.000	90.000	179.724	8016.997	109.593	0.000	107.675	-0.000	109.593	0.000	0.000	107.791	39.357	-3.135	MWD+IFR1+MS
21500.000	90.000	179.724	8016.997	110.359	0.000	108.411	-0.000	110.359	0.000	0.000	108.526	39.419	-3.112	MWD+IFR1+MS
21600.000	90.000	179.724	8016.997	111.125	0.000	109.147	-0.000	111.125	0.000	0.000	109.262	39.482	-3.089	MWD+IFR1+MS
21700.000	90.000	179.724	8016.997	111.891	0.000	109.884	-0.000	111.891	0.000	0.000	109.998	39.545	-3.067	MWD+IFR1+MS
21800.000	90.000	179.724	8016.997	112.657	0.000	110.621	-0.000	112.657	0.000	0.000	110.734	39.609	-3.045	MWD+IFR1+MS
21900.000	90.000	179.724	8016.997	113.424	0.000	111.358	-0.000	113.424	0.000	0.000	111.470	39.673	-3.024	MWD+IFR1+MS
22000.000	90.000	179.724	8016.997	114.191	0.000	112.096	-0.000	114.191	0.000	0.000	112.207	39.737	-3.002	MWD+IFR1+MS
22100.000	90.000	179.724	8016.997	114.958	0.000	112.835	-0.000	114.958	0.000	0.000	112.945	39.802	-2.981	MWD+IFR1+MS
22200.000	90.000	179.724	8016.997	115.725	0.000	113.573	-0.000	115.725	0.000	0.000	113.682	39.867	-2.961	MWD+IFR1+MS
22300.000	90.000	179.724	8016.997	116.493	0.000	114.312	-0.000	116.493	0.000	0.000	114.421	39.932	-2.940	MWD+IFR1+MS

22400.000	90.000	179.724	8016.997	117.261	0.000	115.051	-0.000	117.261	0.000	0.000	115.159	39.998	-2.921	MWD+IFR1+MS
22500.000	90.000	179.724	8016.997	118.029	0.000	115.791	-0.000	118.029	0.000	0.000	115.898	40.064	-2.901	MWD+IFR1+MS
22600.000	90.000	179.724	8016.997	118.797	0.000	116.531	-0.000	118.797	0.000	0.000	116.637	40.130	-2.881	MWD+IFR1+MS
22700.000	90.000	179.724	8016.997	119.566	0.000	117.271	-0.000	119.566	0.000	0.000	117.377	40.197	-2.862	MWD+IFR1+MS
22800.000	90.000	179.724	8016.997	120.334	0.000	118.012	-0.000	120.334	0.000	0.000	118.116	40.264	-2.844	MWD+IFR1+MS
22900.000	90.000	179.724	8016.997	121.103	0.000	118.752	-0.000	121.103	0.000	0.000	118.857	40.331	-2.825	MWD+IFR1+MS
23000.000	90.000	179.724	8016.997	121.872	0.000	119.494	-0.000	121.872	0.000	0.000	119.597	40.398	-2.807	MWD+IFR1+MS
23100.000	90.000	179.724	8016.997	122.642	0.000	120.235	-0.000	122.642	0.000	0.000	120.338	40.466	-2.789	MWD+IFR1+MS
23200.000	90.000	179.724	8016.997	123.411	0.000	120.977	-0.000	123.411	0.000	0.000	121.079	40.535	-2.771	MWD+IFR1+MS
23300.000	90.000	179.724	8016.997	124.181	0.000	121.719	-0.000	124.181	0.000	0.000	121.820	40.603	-2.754	MWD+IFR1+MS
23400.000	90.000	179.724	8016.997	124.951	0.000	122.461	-0.000	124.951	0.000	0.000	122.562	40.672	-2.736	MWD+IFR1+MS
23437.133	90.000	179.724	8016.997	125.236	0.000	122.736	-0.000	125.236	0.000	0.000	122.837	40.698	-2.730	MWD+IFR1+MS
23487.252	90.000	179.724	8016.997	125.621	0.000	123.108	-0.000	125.621	0.000	0.000	123.208	40.733	-2.722	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 19 DTD South 412H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 31	8197.52	440345.50	629584.30	4812.00	RECTANGLE
LTP 31	23437.29	424673.70	629659.70	4812.00	RECTANGLE
BHL 31	23487.49	424623.70	629659.80	4812.00	RECTANGLE

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

XTO Energy Inc.
PLU 19 Dog Town Draw 412H
Projected TD: 23487.25' MD / 8017' TVD
SHL: 272' FNL & 1566' FEL , Section 19, T24S, R30E
BHL: 50' FSL & 828' FEL , 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	682'	Water
Top of Salt	1085'	Water
Base of Salt	3278'	Water
Delaware	3472'	Water
Brushy Canyon	5970'	Water/Oil/Gas
Bone Spring	7266'	Water
Avalon Shale	7436'	Water/Oil/Gas
Lower Avalon Shale	7917'	Water/Oil/Gas
Target/Land Curve	8017'	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 @ 782' (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 7156.48' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 23487.25 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 6856.48 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 782'	13.375	54.5	J-55	BTC	New	1.85	3.31	21.33
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	3.98	2.48	4.42
12.25	4000' – 7156.48'	9.625	40	HC L-80	BTC	New	2.89	2.81	7.25
8.5	0' – 7056.48'	5.5	20	RY P-110	Semi-Premium	New	1.05	3.36	2.33
8.5	7056.48' - 23487.25'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.96	2.33

- 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

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 782'

Lead: 350 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 +/- 7156.48'

1st Stage

Optional Lead: 1010 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 340 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 5970

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: 2100 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 (5970') 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 +/- 23487.25'

Lead: 50 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 6856.48 feet

Tail: 3180 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 7356.48 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 1988 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' - 782'	17.5	FW/Native	8.4-8.9	35-40	NC
782' - 7156.48'	12.25	FW / Cut Brine / Direct Emulsion	8.2-8.7	30-32	NC
7156.48' - 23487.25'	8.5	OBM	9-9.5	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

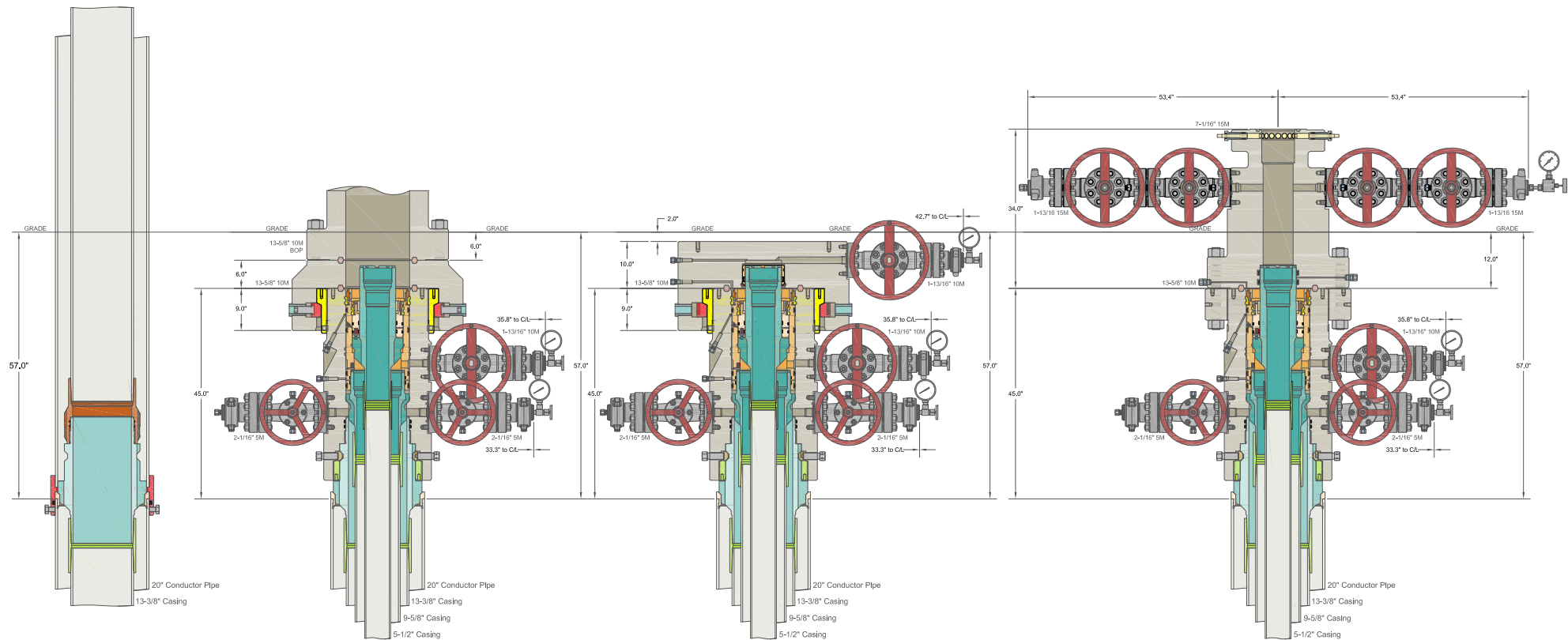
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 145 to 165 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 3752 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.



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC		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		DRAWN	VJK
		APPRV	31MAR22
		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

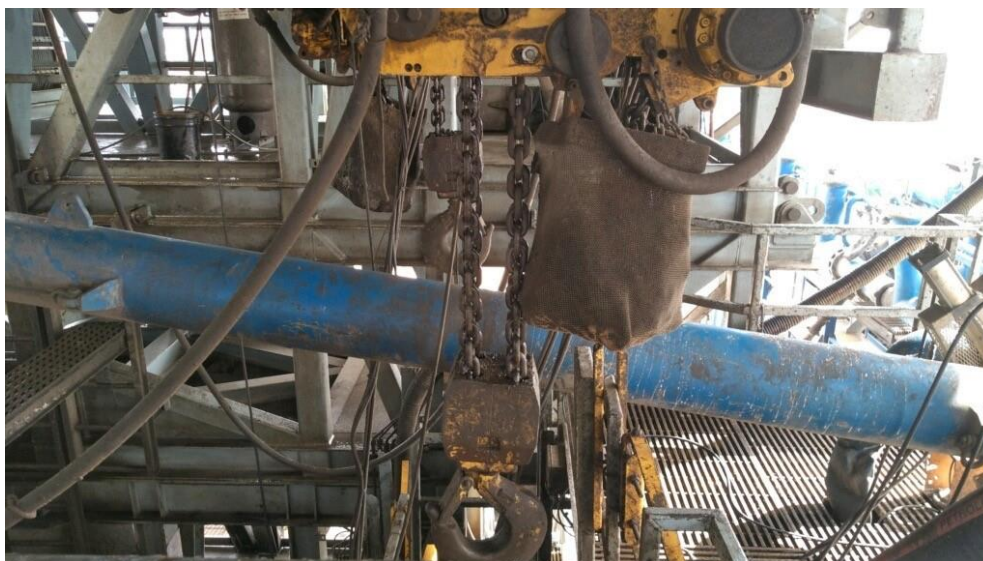


Figure 2: BOP Winch System

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

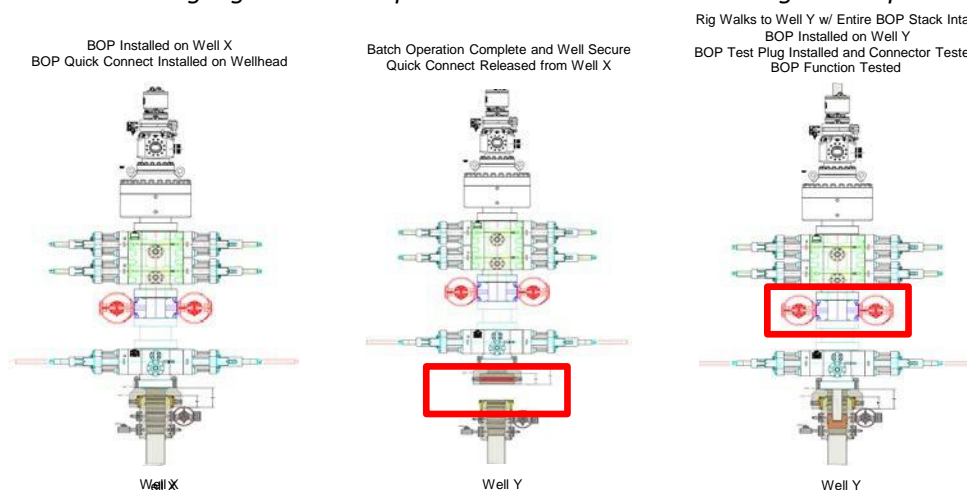
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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.

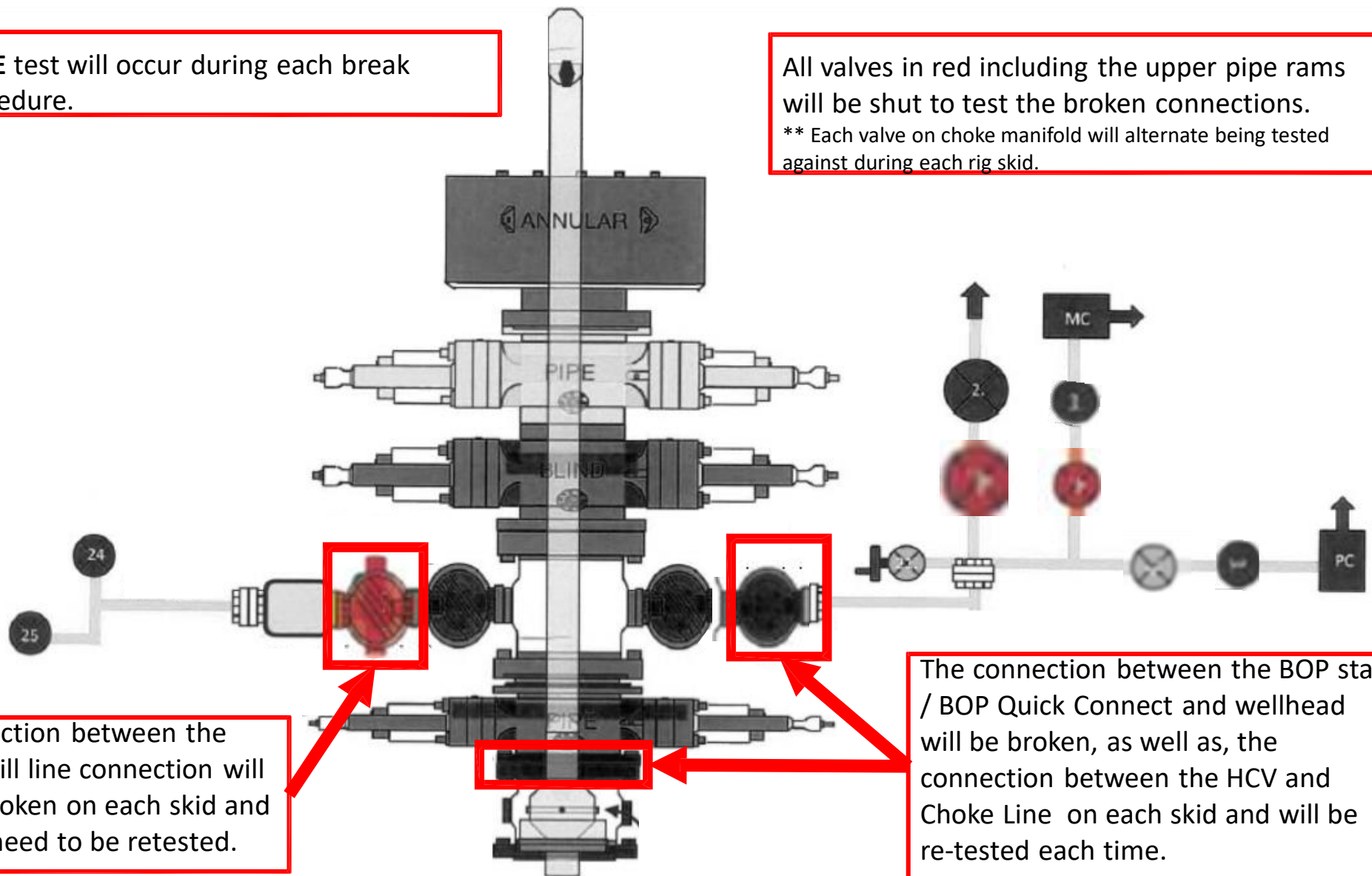
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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.

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

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

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

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

CONDITIONS

Action 328861

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 328861
	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 CXBL is required.	4/11/2024