

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

Sundry Print Reporta

Well Name: POKER LAKE UNIT 19 Well Location: T24S / R30E / SEC 19 / County or Parish/State:

DTD NWNW /

Well Number: 122H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMNM002860 Unit or CA Name: Unit or CA Number:

NMNM71016X

US Well Number: 3001553766 Well Status: Approved Application for Operator: XTO PERMIAN

Permit to Drill OPERATING LLC

#### **Notice of Intent**

**Sundry ID:** 2781293

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/22/2024 Time Sundry Submitted: 03:06

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 & 829' FWL of Section 19-T24S-R30E 1254' FNL & 829' FWL of Section 19-T24S-R30E FTP: 100' FSL & 770' FWL of Section 18-T24S-R30E 100' FNL & 521' FWL of Section 19-T24S-R30E LTP: 100' FSL & 770' FWL of Section 6-T24S-R30E 100' FSL & 521' FWL of Section 31-T24S-R30E BHL: 50' FSL & 770' FWL of Section 6-T24S-R30E 50' FSL & 521' FWL of Section 31-T24S-R30E Proposed total depth will change from 26867' MD; 10732' TVD (Wolfcamp) to 25334' MD; TVD 9797' (Bone Spring 3 Shale). 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\_122H\_Sundry\_Attachments\_20240322150608.pdf

Well Name: POKER LAKE UNIT 19

DTD

Well Location: T24S / R30E / SEC 19 /

1\A/\1\A/ /

NWNW /

County or Parish/State:

**Allottee or Tribe Name:** 

Page 2 of

Well Number: 122H

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WELL

Lease Number: NMNM002860

**Unit or CA Name:** 

Unit or CA Number:

NMNM71016X

**US Well Number: 3001553766** 

**Well Status:** Approved Application for Permit to Drill

**Operator:** XTO PERMIAN

OPERATING LLC

# **Conditions of Approval**

# Additional

Sec19 24S 30E NMP Sundry 2781293 Poker Lake Unit 19 DTD 122H COAs 20240404123918.pdf

# **Operator**

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRA SEBASTIAN Signed on: MAR 22, 2024 03:06 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@EXXONMOBIL.COM

#### **Field**

**Representative Name:** 

**Street Address:** 

City:

State:

Zip:

Phone:

**Email address:** 

# **BLM Point of Contact**

BLM POC Name: CHRISTOPHER WALLS

**BLM POC Phone:** 5752342234

**Disposition:** Approved

Signature: Chris Walls

**BLM POC Title:** Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

**Disposition Date:** 04/04/2024

Page 2 of 2

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED	)
OMB No. 1004-0137	!
Expires: October 31, 20	12

EAU OF LAND MANAGEMENT	5. Lease Seri
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BURE	EAU OF LAND MANAGEMENT		5. Lease Serial No.					
Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee of	or Tribe Name				
	TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agre	ement, Name and/or No.				
1. Type of Well  Oil Well  Gas W	ell Other							
2. Name of Operator			9. API Well No.					
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or	Exploratory Area				
4. Location of Well (Footage, Sec., T.,R.	,M., or Survey Description)		11. Country or Parish	State				
12. CHEC	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF N	NOTICE, REPORT OR OTI	HER DATA				
TYPE OF SUBMISSION		ТҮРЕ О	FACTION					
Notice of Intent	Acidize Deep Alter Casing Hydr	_	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity				
Subsequent Report	Casing Repair New		Recomplete Temporarily Abandon	Other				
Final Abandonment Notice	Convert to Injection Plug	=	Water Disposal					
is ready for final inspection.)								
4. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title						
Signature		Date						
	THE SPACE FOR FEDI	ERAL OR STATE	OFICE USE					
Approved by		Title		Data				
	ed. Approval of this notice does not warran quitable title to those rights in the subject leduct operations thereon.	t or						
Title 18 U.S.C Section 1001 and Title 43	U.S.C Section 1212, make it a crime for ar	ny person knowingly and	d willfully to make to any de	epartment 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

(Form 3160-5, page 2)

#### **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 / 829 FWL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.206604 / LONG: -103.926823 ( TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 330 FSL / 770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22518 / LONG: -103.92702 ( TVD: 10732 feet, MD: 16500 feet ) PPP: SWNW / 330 FSL / 770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.23259 / LONG: -103.92702 ( TVD: 10732 feet, MD: 19200 feet ) PPP: NWSW / 330 FSL / 770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22892 / LONG: -103.92702 ( TVD: 10732 feet, MD: 17800 feet ) PPP: SWSW / 330 FSL / 770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.23999 / LONG: -103.92702 ( TVD: 10732 feet, MD: 21800 feet ) PPP: SWSW / 100 FSL / 770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.210476 / LONG: -103.927024 ( TVD: 10732 feet, MD: 11200 feet ) BHL: NWNW / 50 FNL / 770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.253811 / LONG: -103.927075 ( TVD: 10732 feet, MD: 26867 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC
WELL NAME & NO.: Poker Lake Unit 19 DTD 122H
LOCATION: Sec 19-24S-30E-NMP
COUNTY: Eddy County, New Mexico

Changes approved through engineering via **Sundry 2781293** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

$H_2S$	• No	C Yes										
Potash / WIPP	None	Secretary	C R-111-P	□ WIPP								
Cave / Karst	C Low	• Medium	C High	Critical								
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	O Both	<ul><li>Diverter</li></ul>								
Cementing	☐ Primary Squeeze		EchoMeter	□ DV Tool								
Special Req	Break Testing	☐ Water Disposal	□ СОМ	Unit								
Variance	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	☐ Capitan Reef								
Variance	☐ Four-String	Offline Cementing	☐ Fluid-Filled	☐ Open Annulus								
	☐ Batch APD / Sundry											

#### A. HYDROGEN SULFIDE

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

#### **B. CASING**

- 1. The **9-5/8** inch surface casing shall be set at approximately 430 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *Set depth adjusted per BLM geologist*.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead

cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

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

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

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

# C. PRESSURE CONTROL

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

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

# D. SPECIAL REQUIREMENT (S)

#### **Unit Wells**

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

# **Commercial Well Determination**

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

# **BOPE Break Testing Variance**

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

#### **Offline Cementing**

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

# GENERAL REQUIREMENTS

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

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

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

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM\_NM\_CFO\_DrillingNotifications@blm.gov; (575) 361-2822

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

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

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

#### A. CASING

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

- or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### B. PRESSURE CONTROL

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

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

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

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

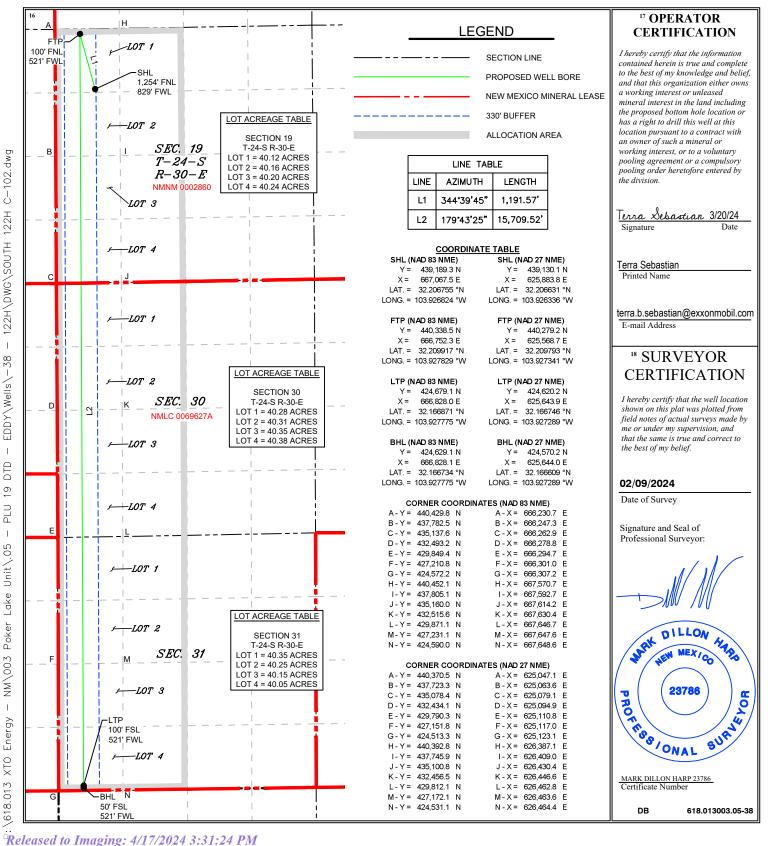


WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-</b>		<sup>2</sup> Pool Code 47545	e/BS (Avalon Sand)				
<sup>4</sup> Property Code 333976			Property Name 6 Well Numl  _AKE UNIT 19 DTD 122H				
<sup>7</sup> OGRID No. <b>373075</b>		<sup>9</sup> Elevation <b>3,146</b> '					

<sup>10</sup> Surface Location UL or lot no. Township North/South line Feet from the East/West line **24S** 30E **NORTH** 829 **WEST EDDY** 19 1.254 "Bottom Hole Location If Different From Surface UL or lot no. East/West line Section Feet from the County Township Range Lot Idn Feet from the North/South line 31 **24S** 30E 50 SOUTH 521 WEST **EDDY** Joint or Infill Dedicated Acres Consolidation Code Order No. 962.84

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.



Inten	t	As Dril	led									
API#	:											
Ope	rator Nai	me:				Property N	ame:					Well Number
Kick (	Off Point	(KOP)										
UL	Section	Township	Range	Lot	Feet	From N	I/S	Feet	F	rom E/W	County	
Latitu	ıde				Longitu	ıde					NAD	
First -	Take Poir	nt (FTP)	Range	Lot	Feet	From N	I/S	Feet	F	rom E/W	County	
Latitu		,	80		Longitu						NAD	
Latitude												
Last T	āke Poin	t (LTP)										
UL	Section	Township	Range	Lot	Feet	From N/S	Feet		From E/\	W Cour	nty	
Latitu	ude			<u> </u>	Longitu	ıde	I	I		NAD		
Is this	s well the	defining v	vell for th	ie Hori	zontal S <sub>l</sub>	pacing Unit?			]			
Is this	s well an	infill well?										
	ll is yes p ng Unit.	lease provi	de API if	availal	ole, Ope	rator Name	and v	vell nu	umber fo	or Defini	ing well fo	or Horizontal
API#	;											
Ope	rator Nai	me:	I			Property N	ame:					Well Number
												<u> </u>

KZ 06/29/2018

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

#### XTO Energy Inc.

Poker Lake Unit 19 DTD South 122H Projected TD: 25334.68' MD / 9797' TVD SHL: 1254' FNL & 829' FWL , Section 19, T24S, R30E BHL: 50' FSL & 521' 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
Avalon	7319'	Water/Oil/Gas
1st Bone Spring	8135'	Water/Oil/Gas
2nd Bone Spring	8953'	Water/Oil/Gas
3rd Bone Spring	9647'	Water/Oil/Gas
Target/Land Curve	9797'	Water/Oil/Gas

<sup>\*\*\*</sup> Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 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 7.625 inch casing at 9016.69' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 25334.68 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8716.69 feet).

#### 3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 665'	9.625	40	J-55	BTC	New	1.84	9.47	23.68
8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.11	2.92	2.08
8.75	4000' – 9016.69'	7.625	29.7	HC L-80	Flush Joint	New	2.26	2.65	2.72
6.75	0' - 8916.69'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.35	2.06
6.75	8916.69' - 25334.68'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.14	2.06

- · 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
- $\cdot$  7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- $\cdot$  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

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

#### Wellhead:

- Permanent Wellhead Multibowl System

  A. Starting Head: 11" 10M top flange x 9-5/8" bottom

  B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange
  - · Wellhead will be installed by manufacturer's representatives.
  - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
     Operator will test the 7-5/8" casing per BLM Onshore Order 2

  - · Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

#### Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 665'

Lead: 120 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

#### 2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9016.69'

st Stage

Optional Lead: 310 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 290 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: 660 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (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-Flush, RY P-110 casing to be set at +/- 25334.68'

 Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:
 8716.69 feet

 Tail: 1150 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:
 9216.69 feet

 Compressives:
 12-hr =
 800 psi
 24 hr = 1500 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

#### 5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 3041 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

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

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

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

hole on each of the wells.

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

#### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss
INTERVAL	Tible Size	widd Type	(ppg)	(sec/qt)	(cc)
0' - 665'	12.25	FW/Native	8.4-8.9	35-40	NC
665' - 9016.69'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9016.69' - 25334.68'	6.75	OBM	10.2-10.7	50-60	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

#### 7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

#### 8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

#### 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 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 5196 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 122H

 Measured Depth:
 25334.68 ft

 TVD RKB:
 9797.00 ft

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 439130.10 ft Easting: 625883.80 ft RKB: 3178.00 ft **Ground Level:** 3146.00 ft North Reference: Grid **Convergence Angle:** 0.22 Deg

Plan Sections Poker Lake Unit 19 DTD South 122H

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
1781.29	13.63	344.67	1774.88	77.76	-21.32	2.00	0.00	2.00
6154.61	13.63	344.67	6025.12	1071.34	-293.78	0.00	0.00	0.00
6835.89	0.00	0.00	6700.00	1149.10	<b>-</b> 315.10	<b>-</b> 2.00	0.00	2.00
9216.69	0.00	0.00	9080.80	1149.10	-315.10	0.00	0.00	0.00
10341.69	90.00	179.73	9797.00	432.91	-311.66	8.00	0.00	8.00
25284.71	90.00	179.73	9797.00	-14509.93	-239.94	0.00	0.00	0.00 LTP 6
25334.68	90.00	179.73	9797.00	-14559.90	-239.70	0.00	0.00	0.00 BHL 6

Position Uncertainty Poker Lake Unit 19 DTD South 122H

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

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	344.666	1199.980	4.721	0.000	4.817	0.000	2.685	0.000	0.000	5.236	4.254	122.405	MWD+IFR1+MS
1300.000	4.000	344.666	1299.838	5.554	0.000	5.161	0.000	2.745	0.000	0.000	5.936	4.727	109.912	MWD+IFR1+MS
1400.000	6.000	344.666	1399.452	6.292	0.000	5.506	0.000	2.810	0.000	0.000	6.629	5.116	103.529	MWD+IFR1+MS
1500.000	8.000	344.666	1498.702	6.962	0.000	5.852	0.000	2.882	0.000	0.000	7.289	5.478	100.019	MWD+IFR1+MS
1600.000	10.000	344.666	1597.465	7.582	0.000	6.199	0.000	2.965	0.000	0.000	7.914	5.829	97.878	MWD+IFR1+MS
1700.000	12.000	344.666	1695.623	8.161	0.000	6.548	0.000	3.059	0.000	0.000	8.508	6.177	96.469	MWD+IFR1+MS
1781.288	13.626	344.666	1774.884	8.522	0.000	6.826	0.000	3.133	0.000	0.000	8.890	6.458	95.889	MWD+IFR1+MS
1800.000	13.626	344.666	1793.070	8.575	0.000	6.887	0.000	3.143	0.000	0.000	8.941	6.522	95.871	MWD+IFR1+MS
1900.000	13.626	344.666	1890.255	8.856	0.000	7.226	0.000	3.224	0.000	0.000	9.214	6.870	96.045	MWD+IFR1+MS
2000.000	13.626	344.666	1987.441	9.159	0.000	7.584	0.000	3.311	0.000	0.000	9.515	7.227	96.473	MWD+IFR1+MS
2100.000	13.626	344.666	2084.626	9.469	0.000	7.945	0.000	3.402	0.000	0.000	9.822	7.586	96.888	MWD+IFR1+MS
2200.000	13.626	344.666	2181.812	9.785	0.000	8.307	0.000	3.496	0.000	0.000	10.135	7.947	97.292	MWD+IFR1+MS
2300.000	13.626	344.666	2278.997	10.106	0.000	8.672	0.000	3.594	0.000	0.000	10.452	8.310	97.685	MWD+IFR1+MS
2400.000	13.626	344.666	2376.183	10.433	0.000	9.038	0.000	3.694	0.000	0.000	10.774	8.675	98.066	MWD+IFR1+MS
2500.000	13.626	344.666	2473.368	10.764	0.000	9.406	0.000	3.796	0.000	0.000	11.101	9.040	98.436	MWD+IFR1+MS
2600.000	13.626	344.666	2570.554	11.099	0.000	9.775	0.000	3.902	0.000	0.000	11.431	9.407	98.796	MWD+IFR1+MS
2700.000	13.626	344.666	2667.739	11.438	0.000	10.145	0.000	4.009	0.000	0.000	11.765	9.776	99.145	MWD+IFR1+MS
2800.000	13.626	344.666	2764.925	11.781	0.000	10.516	0.000	4.119	0.000	0.000	12.103	10.145	99.485	MWD+IFR1+MS
2900.000	13.626	344.666	2862.110	12.127	0.000	10.888	0.000	4.231	0.000	0.000	12.443	10.515	99.814	MWD+IFR1+MS

;	3000.000	13.626	344.666	2959.296	12.476	0.000	11.261	0.000	4.345	0.000	0.000	12.786	10.885	100.134	MWD+IFR1+MS
;	3100.000	13.626	344.666	3056.481	12.828	0.000	11.635	0.000	4.461	0.000	0.000	13.131	11.257	100.444	MWD+IFR1+MS
;	3200.000	13.626	344.666	3153.667	13.182	0.000	12.009	0.000	4.579	0.000	0.000	13.479	11.629	100.745	MWD+IFR1+MS
;	3300.000	13.626	344.666	3250.853	13,538	0.000	12.384	0.000	4.699	0.000	0.000	13.829	12.002	101.038	MWD+IFR1+MS
;	3400.000	13.626	344.666	3348.038	13.897	0.000	12.759	0.000	4.821	0.000	0.000	14.181	12.375	101.322	MWD+IFR1+MS
;	3500.000	13.626	344.666	3445.224	14.257	0.000	13.135	0.000	4.944	0.000	0.000	14.534	12.749	101.597	MWD+IFR1+MS
;	3600.000	13.626	344.666	3542.409	14.619	0.000	13.511	0.000	5.069	0.000	0.000	14.890	13.123	101.865	MWD+IFR1+MS
;	3700.000	13.626	344.666	3639.595	14.983	0.000	13.888	0.000	5.196	0.000	0.000	15.247	13.498	102.124	MWD+IFR1+MS
;	3800.000	13.626	344.666	3736.780	15.349	0.000	14.265	0.000	5.324	0.000	0.000	15.605	13.873	102.376	MWD+IFR1+MS
;	3900.000	13.626	344.666	3833.966	15.716	0.000	14.643	0.000	5.454	0.000	0.000	15.965	14.249	102.620	MWD+IFR1+MS
4	4000.000	13.626	344.666	3931.151	16.084	0.000	15.021	0.000	5.586	0.000	0.000	16.326	14.624	102.857	MWD+IFR1+MS
4	4100.000	13.626	344.666	4028.337	16.454	0.000	15.399	0.000	5.719	0.000	0.000	16.689	15.001	103.087	MWD+IFR1+MS
4	4200.000	13.626	344.666	4125.522	16.825	0.000	15.778	0.000	5.854	0.000	0.000	17.052	15.377	103.311	MWD+IFR1+MS
4	4300.000	13.626	344.666	4222.708	17.197	0.000	16.156	0.000	5.990	0.000	0.000	17.416	15.754	103.527	MWD+IFR1+MS
4	4400.000	13.626	344.666	4319.893	17.570	0.000	16.536	0.000	6.128	0.000	0.000	17.782	16.131	103.737	MWD+IFR1+MS
4	4500.000	13.626	344.666	4417.079	17.943	0.000	16.915	0.000	6.268	0.000	0.000	18.148	16.508	103.941	MWD+IFR1+MS
4	4600.000	13.626	344.666	4514.264	18.318	0.000	17.294	0.000	6.409	0.000	0.000	18.516	16.886	104.138	MWD+IFR1+MS
4	4700.000	13.626	344.666	4611.450	18.694	0.000	17.674	0.000	6.552	0.000	0.000	18.884	17.263	104.330	MWD+IFR1+MS
4	4800.000	13.626	344.666	4708.635	19.070	0.000	18.054	0.000	6.697	0.000	0.000	19.253	17.641	104.516	MWD+IFR1+MS
4	4900.000	13.626	344.666	4805.821	19.448	0.000	18.434	0.000	6.843	0.000	0.000	19.622	18.019	104.696	MWD+IFR1+MS
į	5000.000	13.626	344.666	4903.006	19.826	0.000	18.814	0.000	6.991	0.000	0.000	19.992	18.398	104.870	MWD+IFR1+MS
;	5100.000	13.626	344.666	5000.192	20.204	0.000	19.195	0.000	7.140	0.000	0.000	20.363	18.776	105.039	MWD+IFR1+MS
;	5200.000	13.626	344.666	5097.377	20.583	0.000	19.575	0.000	7.291	0.000	0.000	20.735	19.155	105.203	MWD+IFR1+MS
;	5300.000	13.626	344.666	5194.563	20.963	0.000	19.956	0.000	7.444	0.000	0.000	21.107	19.534	105.362	MWD+IFR1+MS
į	5400.000	13.626	344.666	5291.748	21.344	0.000	20.337	0.000	7.598	0.000	0.000	21.480	19.913	105.515	MWD+IFR1+MS
į	5500.000	13.626	344.666	5388.934	21.725	0.000	20.718	0.000	7.755	0.000	0.000	21.853	20.292	105.664	MWD+IFR1+MS
į	5600.000	13.626	344.666	5486.120	22.106	0.000	21.099	0.000	7.912	0.000	0.000	22.227	20.671	105.808	MWD+IFR1+MS
;	5700.000	13.626	344.666	5583.305	22.488	0.000	21.480	0.000	8.072	0.000	0.000	22.601	21.051	105.948	MWD+IFR1+MS
;	5800.000	13.626	344.666	5680.491	22.871	0.000	21.861	0.000	8.234	0.000	0.000	22.976	21.430	106.083	MWD+IFR1+MS
	5900.000	13.626	344.666	5777.676	23.253	0.000	22.242	0.000	8.397	0.000	0.000	23.351	21.810	106.213	MWD+IFR1+MS
(	000.000	13.626	344.666	5874.862	23.637	0.000	22.624	0.000	8.562	0.000	0.000	23.726	22.190	106.339	MWD+IFR1+MS
(	6100.000	13.626	344.666	5972.047	24.020	0.000	23.005	0.000	8.729	0.000	0.000	24.102	22.570	106.461	MWD+IFR1+MS
(	6154.606	13.626	344.666	6025.116	24.227	0.000	23.211	0.000	8.821	0.000	0.000	24.302	22.777	106.476	MWD+IFR1+MS

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6200.000	12.718	344.666	6069.315	24.415	0.000	23.380	0.000	8.898	0.000	0.000	24.469	22.948	106.460 MWD+IFR1+	+MS
6300.000	10.718	344.666	6167.226	24.858	0.000	23.753	0.000	9.070	0.000	0.000	24.881	23.327	105.811 MWD+IFR1+	+MS
6400.000	8.718	344.666	6265.787	25.314	0.000	24.123	0.000	9.241	0.000	0.000	25.336	23.704	104.690 MWD+IFR1+	+MS
6500.000	6.718	344.666	6364.876	25.732	0.000	24.486	0.000	9.404	0.000	0.000	25.783	24.073	103.683 MWD+IFR1+	+MS
6600.000	4.718	344.666	6464.373	26.110	0.000	24.842	0.000	9.560	0.000	0.000	26.223	24.433	102.785 MWD+IFR1+	+MS
6700.000	2.718	344.666	6564.158	26.449	0.000	25.191	0.000	9.709	0.000	0.000	26.654	24.786	101.988 MWD+IFR1+	+MS
6800.000	0.718	344.666	6664.107	26.748	0.000	25.533	0.000	9.855	0.000	0.000	27.076	25.130	101.285 MWD+IFR1+	+MS
6835.893	0.000	0.000	6700.000	27.122	0.000	25.327	0.000	9.906	0.000	0.000	27.194	25.250	101.268 MWD+IFR1+	+MS
6900.000	0.000	0.000	6764.107	27.325	0.000	25.540	0.000	9.997	0.000	0.000	27.397	25.463	101.320 MWD+IFR1+	+MS
7000.000	0.000	0.000	6864.107	27.642	0.000	25.878	0.000	10.143	0.000	0.000	27.716	25.799	101.485 MWD+IFR1+	+MS
7100.000	0.000	0.000	6964.107	27.963	0.000	26.218	0.000	10.290	0.000	0.000	28.039	26.136	101.709 MWD+IFR1+	+MS
7200.000	0.000	0.000	7064.107	28.284	0.000	26.558	0.000	10.441	0.000	0.000	28.362	26.475	101.931 MWD+IFR1+	+MS
7300.000	0.000	0.000	7164.107	28.606	0.000	26.899	0.000	10.595	0.000	0.000	28.687	26.813	102.151 MWD+IFR1+	+MS
7400.000	0.000	0.000	7264.107	28.929	0.000	27.240	0.000	10.752	0.000	0.000	29.012	27.152	102.369 MWD+IFR1+	+MS
7500.000	0.000	0.000	7364.107	29.253	0.000	27.582	0.000	10.912	0.000	0.000	29.338	27.492	102.585 MWD+IFR1+	+MS
7600.000	0.000	0.000	7464.107	29.578	0.000	27.924	0.000	11.074	0.000	0.000	29.665	27.831	102.799 MWD+IFR1+	+MS
7700.000	0.000	0.000	7564.107	29.903	0.000	28.267	0.000	11.240	0.000	0.000	29.993	28.172	103.011 MWD+IFR1+	+MS
7800.000	0.000	0.000	7664.107	30.229	0.000	28.610	0.000	11.409	0.000	0.000	30.321	28.512	103.221 MWD+IFR1+	+MS
7900.000	0.000	0.000	7764.107	30.556	0.000	28.953	0.000	11.580	0.000	0.000	30.650	28.853	103.429 MWD+IFR1+	+MS
8000.000	0.000	0.000	7864.107	30.884	0.000	29.297	0.000	11.755	0.000	0.000	30.980	29.195	103.635 MWD+IFR1+	+MS
8100.000	0.000	0.000	7964.107	31.212	0.000	29.641	0.000	11.933	0.000	0.000	31.311	29.537	103.839 MWD+IFR1+	+MS
8200.000	0.000	0.000	8064.107	31.541	0.000	29.985	0.000	12.114	0.000	0.000	31.642	29.879	104.041 MWD+IFR1+	+MS
8300.000	0.000	0.000	8164.107	31.870	0.000	30.330	0.000	12.298	0.000	0.000	31.974	30.221	104.241 MWD+IFR1+	+MS
8400.000	0.000	0.000	8264.107	32.201	0.000	30.675	0.000	12.485	0.000	0.000	32.306	30.564	104.439 MWD+IFR1+	+MS
8500.000	0.000	0.000	8364.107	32.531	0.000	31.021	0.000	12.675	0.000	0.000	32.639	30.907	104.636 MWD+IFR1+	+MS
8600.000	0.000	0.000	8464.107	32.863	0.000	31.366	0.000	12.869	0.000	0.000	32.973	31.251	104.830 MWD+IFR1+	+MS
8700.000	0.000	0.000	8564.107	33.195	0.000	31.712	0.000	13.065	0.000	0.000	33.307	31.594	105.023 MWD+IFR1+	+MS
8800.000	0.000	0.000	8664.107	33.527	0.000	32.058	0.000	13.265	0.000	0.000	33.642	31.938	105.213 MWD+IFR1+	+MS
8900.000	0.000	0.000	8764.107	33.860	0.000	32.405	0.000	13.467	0.000	0.000	33.977	32.282	105.402 MWD+IFR1+	+MS
9000.000	0.000	0.000	8864.107	34.194	0.000	32.752	0.000	13.673	0.000	0.000	34.312	32.627	105.589 MWD+IFR1+	+MS
9100.000	0.000	0.000	8964.107	34.528	0.000	33.099	0.000	13.882	0.000	0.000	34.649	32.972	105.774 MWD+IFR1+	+MS
9200.000	0.000	0.000	9064.107	34.862	0.000	33.446	0.000	14.094	0.000	0.000	34.985	33.317	105.957 MWD+IFR1+	+MS
9216.693	0.000	0.000	9080.800	34.917	0.000	33.503	0.000	14.130	0.000	0.000	35.040	33.374	105.963 MWD+IFR1+	+MS

9300.000	6.665	179.725	9163.919	34.644	0.000	33.773	-0.000	14.309	0.000	0.000	35.426	33.647	105.005	MWD+IFR1+MS
9400.000	14.665	179.725	9262.112	34.649	0.000	34.060	-0.000	14.596	0.000	0.000	36.626	33.955	100.973	MWD+IFR1+MS
9500.000	22.665	179.725	9356.776	34.323	0.000	34.320	-0.000	15.073	0.000	0.000	37.866	34.222	98.969	MWD+IFR1+MS
9600.000	30.665	179.725	9446.068	33.540	0.000	34.551	-0.000	15.799	0.000	0.000	38.926	34.452	98.041	MWD+IFR1+MS
9700.000	38.665	179.725	9528.251	32.397	0.000	34.750	-0.000	16.806	0.000	0.000	39.790	34.647	97.592	MWD+IFR1+MS
9800.000	46.665	179.725	9601.725	31.022	0.000	34.918	-0.000	18.087	0.000	0.000	40.457	34.809	97.400	MWD+IFR1+MS
9900.000	54.665	179.725	9665.059	29.580	0.000	35.054	-0.000	19.600	0.000	0.000	40.937	34.940	97.359	MWD+IFR1+MS
10000.000	62.665	179.725	9717.022	28.267	0.000	35.159	-0.000	21.289	0.000	0.000	41.248	35.039	97.404	MWD+IFR1+MS
10100.000	70.665	179.725	9756.601	27.299	0.000	35.234	-0.000	23.088	0.000	0.000	41.420	35.109	97.484	MWD+IFR1+MS
10200.000	78.665	179.725	9783.026	26.882	0.000	35.279	-0.000	24.930	0.000	0.000	41.490	35.151	97.545	MWD+IFR1+MS
10300.000	86.665	179.725	9795.784	27.162	0.000	35.294	-0.000	26.755	0.000	0.000	41.500	35.167	97.527	MWD+IFR1+MS
10341.693	90.000	179.725	9796.997	26.973	0.000	35.289	-0.000	26.973	0.000	0.000	41.499	35.164	97.472	MWD+IFR1+MS
10400.000	90.000	179.725	9796.997	27.116	0.000	35.282	-0.000	27.116	0.000	0.000	41.497	35.159	97.386	MWD+IFR1+MS
10500.000	90.000	179.725	9796.997	27.333	0.000	35.286	-0.000	27.333	0.000	0.000	41.493	35.168	97.259	MWD+IFR1+MS
10600.000	90.000	179.725	9796.997	27.572	0.000	35.309	-0.000	27.572	0.000	0.000	41.491	35.195	97.149	MWD+IFR1+MS
10700.000	90.000	179.725	9796.997	27.832	0.000	35.349	-0.000	27.832	0.000	0.000	41.489	35.238	97.056	MWD+IFR1+MS
10800.000	90.000	179.725	9796.997	28.111	0.000	35.405	-0.000	28.111	0.000	0.000	41.489	35.298	96.979	MWD+IFR1+MS
10900.000	90.000	179.725	9796.997	28.410	0.000	35.478	-0.000	28.410	0.000	0.000	41.489	35.374	96.917	MWD+IFR1+MS
11000.000	90.000	179.725	9796.997	28.726	0.000	35.567	-0.000	28.726	0.000	0.000	41.489	35.466	96.871	MWD+IFR1+MS
11100.000	90.000	179.725	9796.997	29.061	0.000	35.672	-0.000	29.061	0.000	0.000	41.491	35.574	96.842	MWD+IFR1+MS
11200.000	90.000	179.725	9796.997	29.412	0.000	35.793	-0.000	29.412	0.000	0.000	41.493	35.698	96.828	MWD+IFR1+MS
11300.000	90.000	179.725	9796.997	29.780	0.000	35.930	-0.000	29.780	0.000	0.000	41.496	35.837	96.833	MWD+IFR1+MS
11400.000	90.000	179.725	9796.997	30.164	0.000	36.083	-0.000	30.164	0.000	0.000	41.500	35.992	96.856	MWD+IFR1+MS
11500.000	90.000	179.725	9796.997	30.563	0.000	36.252	-0.000	30.563	0.000	0.000	41.504	36.162	96.899	MWD+IFR1+MS
11600.000	90.000	179.725	9796.997	30.977	0.000	36.435	-0.000	30.977	0.000	0.000	41.510	36.348	96.965	MWD+IFR1+MS
11700.000	90.000	179.725	9796.997	31.406	0.000	36.634	-0.000	31.406	0.000	0.000	41.516	36.548	97.057	MWD+IFR1+MS
11800.000	90.000	179.725	9796.997	31.847	0.000	36.848	-0.000	31.847	0.000	0.000	41.523	36.763	97.177	MWD+IFR1+MS
11900.000	90.000	179.725	9796.997	32.302	0.000	37.076	-0.000	32.302	0.000	0.000	41.530	36.992	97.332	MWD+IFR1+MS
12000.000	90.000	179.725	9796.997	32.769	0.000	37.319	-0.000	32.769	0.000	0.000	41.539	37.235	97.527	MWD+IFR1+MS
12100.000	90.000	179.725	9796.997	33.249	0.000	37.575	-0.000	33.249	0.000	0.000	41.548	37.491	97.771	MWD+IFR1+MS
12200.000	90.000	179.725	9796.997	33.739	0.000	37.845	-0.000	33.739	0.000	0.000	41.559	37.761	98.075	MWD+IFR1+MS
12300.000	90.000	179.725	9796.997	34.241	0.000	38.129	-0.000	34.241	0.000	0.000	41.570	38.044	98.455	MWD+IFR1+MS
12400.000	90.000	179.725	9796.997	34.753	0.000	38.426	-0.000	34.753	0.000	0.000	41.583	38.340	98.934	MWD+IFR1+MS

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12500.000	90.000	179.725	9796.997	35.275	0.000	38.736	-0.000	35.275	0.000	0.000	41.598	38.647	99.545	MWD+IFR1+MS
12600.000	90.000	179.725	9796.997	35.807	0.000	39.058	-0.000	35.807	0.000	0.000	41.614	38.965	100.338	MWD+IFR1+MS
12700.000	90.000	179.725	9796.997	36.348	0.000	39.393	-0.000	36.348	0.000	0.000	41.632	39.294	101.393	MWD+IFR1+MS
12800.000	90.000	179.725	9796.997	36.898	0.000	39.739	-0.000	36,898	0.000	0.000	41.653	39.633	102.842	MWD+IFR1+MS
12900.000	90.000	179.725	9796.997	37.456	0.000	40.097	-0.000	37.456	0.000	0.000	41.680	39.978	104.917	MWD+IFR1+MS
13000.000	90.000	179.725	9796.997	38.022	0.000	40.467	-0.000	38.022	0.000	0.000	41.714	40.327	108.060	MWD+IFR1+MS
13100.000	90.000	179.725	9796.997	38.595	0.000	40.847	-0.000	38.595	0.000	0.000	41.764	40.673	113.145	MWD+IFR1+MS
13200.000	90.000	179.725	9796.997	39.176	0.000	41.238	-0.000	39.176	0.000	0.000	41.846	40.997	121.791	MWD+IFR1+MS
13300.000	90.000	179.725	9796.997	39.764	0.000	41.640	-0.000	39.764	0.000	0.000	41.997	41.264	-44.676	MWD+IFR1+MS
13400.000	90.000	179.725	9796.997	40.359	0.000	42.051	-0.000	40.359	0.000	0.000	42.251	41.438	-30.091	MWD+IFR1+MS
13500.000	90.000	179.725	9796.997	40.960	0.000	42.473	-0.000	40.960	0.000	0.000	42.591	41.536	-19.972	MWD+IFR1+MS
13600.000	90.000	179.725	9796.997	41.568	0.000	42.904	-0.000	41.568	0.000	0.000	42.981	41.595	-14.004	MWD+IFR1+MS
13700.000	90.000	179.725	9796.997	42.181	0.000	43.344	-0.000	42.181	0.000	0.000	43.397	41.637	-10.379	MWD+IFR1+MS
13800.000	90.000	179.725	9796.997	42.799	0.000	43.793	-0.000	42.799	0.000	0.000	43.831	41.670	-8.024	MWD+IFR1+MS
13900.000	90.000	179.725	9796.997	43.424	0.000	44.251	-0.000	43.424	0.000	0.000	44.279	41.699	-6.398	MWD+IFR1+MS
14000.000	90.000	179.725	9796.997	44.053	0.000	44.717	-0.000	44.053	0.000	0.000	44.739	41.726	-5.218	MWD+IFR1+MS
14100.000	90.000	179.725	9796.997	44.687	0.000	45.192	-0.000	44.687	0.000	0.000	45.208	41.751	-4.329	MWD+IFR1+MS
14200.000	90.000	179.725	9796.997	45.326	0.000	45.674	-0.000	45.326	0.000	0.000	45.687	41.775	-3.639	MWD+IFR1+MS
14300.000	90.000	179.725	9796.997	45.969	0.000	46.164	-0.000	45.969	0.000	0.000	46.174	41.799	-3.090	MWD+IFR1+MS
14400.000	90.000	179.725	9796.997	46.617	0.000	46.661	-0.000	46.617	0.000	0.000	46.669	41.823	-2.645	MWD+IFR1+MS
14500.000	90.000	179.725	9796.997	47.269	0.000	47.166	-0.000	47.269	0.000	0.000	47.172	41.847	-2.278	MWD+IFR1+MS
14600.000	90.000	179.725	9796.997	47.925	0.000	47.677	-0.000	47.925	0.000	0.000	47.682	41.871	-1.971	MWD+IFR1+MS
14700.000	90.000	179.725	9796.997	48.584	0.000	48.196	-0.000	48.584	0.000	0.000	48.199	41.895	-1.711	MWD+IFR1+MS
14800.000	90.000	179.725	9796.997	49.248	0.000	48.720	-0.000	49.248	0.000	0.000	48.723	41.920	-1.490	MWD+IFR1+MS
14900.000	90.000	179.725	9796.997	49.915	0.000	49.251	-0.000	49.915	0.000	0.000	49.254	41.945	-1.299	MWD+IFR1+MS
15000.000	90.000	179.725	9796.997	50.585	0.000	49.789	-0.000	50.585	0.000	0.000	49.790	41.970	-1 133	MWD+IFR1+MS
15100.000	90.000	179.725	9796.997	51.258	0.000	50.332	-0.000	51.258	0.000	0.000	50.333	41.996	-0.988	MWD+IFR1+MS
15200.000	90.000	179.725	9796.997	51.935	0.000	50.881	-0.000	51.935	0.000	0.000	50.881	42.022	-0.861	MWD+IFR1+MS
15300.000	90.000	179.725	9796.997	52.615	0.000	51.435	-0.000	52.615	0.000	0.000	51.435	42.048	-0.749	MWD+IFR1+MS
15400.000	90.000	179.725	9796.997	53.297	0.000	51.995	-0.000	53.297	0.000	0.000	51.995	42.075	-0.649	MWD+IFR1+MS
15500.000	90.000	179.725	9796.997	53.982	0.000	52.559	-0.000	53.982	0.000	0.000	52.560	42.103	-0.561	MWD+IFR1+MS
15600.000	90.000	179.725	9796.997	54.670	0.000	53.129	-0.000	54.670	0.000	0.000	53.130	42.131	-0.481	MWD+IFR1+MS
15700.000	90.000	179.725	9796.997	55.361	0.000	53.704	-0.000	55.361	0.000	0.000	53.704	42.159	-0.410	MWD+IFR1+MS

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15800.000	90.000	179.725	9796.997	56.054	0.000	54.284	-0.000	56.054	0.000	0.000	54.284	42.188	-0.346	MWD+IFR1+MS
15900.000	90.000	179.725	9796.997	56.749	0.000	54.868	-0.000	56.749	0.000	0.000	54.868	42.218	-0.289	MWD+IFR1+MS
16000.000	90.000	179.725	9796.997	57.447	0.000	55.456	-0.000	57.447	0.000	0.000	55.456	42.248	-0.236	MWD+IFR1+MS
16100.000	90.000	179.725	9796.997	58.147	0.000	56.049	-0.000	58.147	0.000	0.000	56.049	42.278	-0.189	MWD+IFR1+MS
16200.000	90.000	179.725	9796.997	58.849	0.000	56.646	-0.000	58.849	0.000	0.000	56.646	42.309	-0.146	MWD+IFR1+MS
16300.000	90.000	179.725	9796.997	59.553	0.000	57.247	-0.000	59.553	0.000	0.000	57.247	42.340	-0.107	MWD+IFR1+MS
16400.000	90.000	179.725	9796.997	60.259	0.000	57.852	-0.000	60.259	0.000	0.000	57.852	42.372	-0.071	MWD+IFR1+MS
16500.000	90.000	179.725	9796.997	60.967	0.000	58.460	-0.000	60.967	0.000	0.000	58.460	42.405	-0.039	MWD+IFR1+MS
16600.000	90.000	179.725	9796.997	61.677	0.000	59.072	-0.000	61.677	0.000	0.000	59.073	42.437	-0.009	MWD+IFR1+MS
16700.000	90.000	179.725	9796.997	62.389	0.000	59.688	-0.000	62.389	0.000	0.000	59.688	42.471	0.018	MWD+IFR1+MS
16800.000	90.000	179.725	9796.997	63.103	0.000	60.307	-0.000	63.103	0.000	0.000	60.308	42.505	0.043	MWD+IFR1+MS
16900.000	90.000	179.725	9796.997	63.818	0.000	60.930	-0.000	63.818	0.000	0.000	60.930	42.539	0.066	MWD+IFR1+MS
17000.000	90.000	179.725	9796.997	64.534	0.000	61.555	-0.000	64.534	0.000	0.000	61.556	42.574	0.087	MWD+IFR1+MS
17100.000	90.000	179.725	9796.997	65.253	0.000	62.184	-0.000	65.253	0.000	0.000	62.185	42.609	0.106	MWD+IFR1+MS
17200.000	90.000	179.725	9796.997	65.973	0.000	62.816	-0.000	65.973	0.000	0.000	62.817	42.645	0.124	MWD+IFR1+MS
17300.000	90.000	179.725	9796.997	66.694	0.000	63.451	-0.000	66.694	0.000	0.000	63.452	42.682	0.140	MWD+IFR1+MS
17400.000	90.000	179.725	9796.997	67.417	0.000	64.089	-0.000	67.417	0.000	0.000	64.090	42.719	0.155	MWD+IFR1+MS
17500.000	90.000	179.725	9796.997	68.141	0.000	64.729	-0.000	68.141	0.000	0.000	64.730	42.756	0.169	MWD+IFR1+MS
17600.000	90.000	179.725	9796.997	68.866	0.000	65.372	-0.000	68.866	0.000	0.000	65.374	42.794	0.182	MWD+IFR1+MS
17700.000	90.000	179.725	9796.997	69.593	0.000	66.018	-0.000	69.593	0.000	0.000	66.019	42.832	0.193	MWD+IFR1+MS
17800.000	90.000	179.725	9796.997	70.321	0.000	66.666	-0.000	70.321	0.000	0.000	66.668	42.871	0.204	MWD+IFR1+MS
17900.000	90.000	179.725	9796.997	71.050	0.000	67.317	-0.000	71.050	0.000	0.000	67.319	42.910	0.214	MWD+IFR1+MS
18000.000	90.000	179.725	9796.997	71.780	0.000	67.970	-0.000	71.780	0.000	0.000	67.972	42.950	0.223	MWD+IFR1+MS
18100.000	90.000	179.725	9796.997	72.512	0.000	68.626	-0.000	72.512	0.000	0.000	68.627	42.991	0.231	MWD+IFR1+MS
18200.000	90.000	179.725	9796.997	73.244	0.000	69.284	-0.000	73.244	0.000	0.000	69.285	43.031	0.239	MWD+IFR1+MS
18300.000	90.000	179.725	9796.997	73.978	0.000	69.943	-0.000	73.978	0.000	0.000	69.945	43.073	0.246	MWD+IFR1+MS
18400.000	90.000	179.725	9796.997	74.713	0.000	70.606	-0.000	74.713	0.000	0.000	70.607	43.115	0.252	MWD+IFR1+MS
18500.000	90.000	179.725	9796.997	75.448	0.000	71.270	-0.000	75.448	0.000	0.000	71.272	43.157	0.258	MWD+IFR1+MS
18600.000	90.000	179.725	9796.997	76.185	0.000	71.936	-0.000	76.185	0.000	0.000	71.938	43.200	0.263	MWD+IFR1+MS
18700.000	90.000	179.725	9796.997	76.923	0.000	72.604	-0.000	76.923	0.000	0.000	72.606	43.243	0.268	MWD+IFR1+MS
18800.000	90.000	179.725	9796.997	77.661	0.000	73.274	-0.000	77.661	0.000	0.000	73.276	43.287	0.273	MWD+IFR1+MS
18900.000	90.000	179.725	9796.997	78.401	0.000	73.946	-0.000	78.401	0.000	0.000	73.948	43.331	0.277	MWD+IFR1+MS
19000.000	90.000	179.725	9796.997	79.141	0.000	74.619	-0.000	79.141	0.000	0.000	74.622	43.376	0.280	MWD+IFR1+MS

1910	00.000	90.000	179.725	9796.997	79.882	0.000	75.295	-0.000	79.882	0.000	0.000	75.297	43.421	0.284	MWD+IFR1+MS
1920	00.000	90.000	179.725	9796.997	80.624	0.000	75.972	-0.000	80.624	0.000	0.000	75.974	43.466	0.287	MWD+IFR1+MS
1930	00.000	90.000	179.725	9796.997	81.367	0.000	76.651	-0.000	81.367	0.000	0.000	76.653	43.513	0.289	MWD+IFR1+MS
1940	00.000	90.000	179.725	9796.997	82.110	0.000	77.331	-0.000	82.110	0.000	0.000	77.334	43.559	0.292	MWD+IFR1+MS
1950	00.000	90.000	179.725	9796.997	82.855	0.000	78.013	-0.000	82.855	0.000	0.000	78.016	43.606	0.294	MWD+IFR1+MS
1960	00.000	90.000	179.725	9796.997	83.600	0.000	78.697	-0.000	83.600	0.000	0.000	78.699	43.654	0.296	MWD+IFR1+MS
1970	00.000	90.000	179.725	9796.997	84.346	0.000	79.382	-0.000	84.346	0.000	0.000	79.384	43.702	0.297	MWD+IFR1+MS
1980	00.000	90.000	179.725	9796.997	85.092	0.000	80.068	-0.000	85.092	0.000	0.000	80.071	43.750	0.299	MWD+IFR1+MS
1990	00.000	90.000	179.725	9796.997	85.839	0.000	80.756	-0.000	85.839	0.000	0.000	80.759	43.799	0.300	MWD+IFR1+MS
2000	00.000	90.000	179.725	9796.997	86.587	0.000	81.445	-0.000	86.587	0.000	0.000	81.448	43.849	0.301	MWD+IFR1+MS
2010	00.000	90.000	179.725	9796.997	87.336	0.000	82.136	-0.000	87.336	0.000	0.000	82.139	43.899	0.302	MWD+IFR1+MS
2020	00.000	90.000	179.725	9796.997	88.085	0.000	82.828	-0.000	88.085	0.000	0.000	82.831	43.949	0.302	MWD+IFR1+MS
203	00.000	90.000	179.725	9796.997	88.835	0.000	83.521	-0.000	88.835	0.000	0.000	83.524	44.000	0.303	MWD+IFR1+MS
2040	00.000	90.000	179.725	9796.997	89.585	0.000	84.216	-0.000	89.585	0.000	0.000	84.219	44.051	0.303	MWD+IFR1+MS
205	00.000	90.000	179.725	9796.997	90.336	0.000	84.911	-0.000	90.336	0.000	0.000	84.915	44.103	0.303	MWD+IFR1+MS
206	00.000	90.000	179.725	9796.997	91.087	0.000	85.608	-0.000	91.087	0.000	0.000	85.612	44.155	0.304	MWD+IFR1+MS
207	00.000	90.000	179.725	9796.997	91.839	0.000	86.306	-0.000	91.839	0.000	0.000	86.310	44.208	0.304	MWD+IFR1+MS
208	00.000	90.000	179.725	9796.997	92.592	0.000	87.006	-0.000	92.592	0.000	0.000	87.009	44.261	0.303	MWD+IFR1+MS
209	00.000	90.000	179.725	9796.997	93.345	0.000	87.706	-0.000	93.345	0.000	0.000	87.709	44.314	0.303	MWD+IFR1+MS
210	00.000	90.000	179.725	9796.997	94.099	0.000	88.407	-0.000	94.099	0.000	0.000	88.411	44.368	0.303	MWD+IFR1+MS
2110	00.000	90.000	179.725	9796.997	94.853	0.000	89.110	-0.000	94.853	0.000	0.000	89.113	44.423	0.302	MWD+IFR1+MS
2120	00.000	90.000	179.725	9796.997	95.608	0.000	89.813	-0.000	95.608	0.000	0.000	89.817	44.477	0.302	MWD+IFR1+MS
2130	00.000	90.000	179.725	9796.997	96.363	0.000	90.518	-0.000	96.363	0.000	0.000	90.521	44.533	0.301	MWD+IFR1+MS
2140	00.000	90.000	179.725	9796.997	97.118	0.000	91.223	-0.000	97.118	0.000	0.000	91.227	44.589	0.300	MWD+IFR1+MS
2150	00.000	90.000	179.725	9796.997	97.874	0.000	91.930	-0.000	97.874	0.000	0.000	91.933	44.645	0.300	MWD+IFR1+MS
216	00.000	90.000	179.725	9796.997	98.631	0.000	92.637	-0.000	98.631	0.000	0.000	92.640	44.701	0.299	MWD+IFR1+MS
2170	00.000	90.000	179.725	9796.997	99.388	0.000	93.345	-0.000	99.388	0.000	0.000	93.349	44.758	0.298	MWD+IFR1+MS
218	00.000	90.000	179.725	9796.997	100.145	0.000	94.054	-0.000	100.145	0.000	0.000	94.058	44.816	0.297	MWD+IFR1+MS
219	00.000	90.000	179.725	9796.997	100.903	0.000	94.764	-0.000	100.903	0.000	0.000	94.768	44.874	0.296	MWD+IFR1+MS
220	00.000	90.000	179.725	9796.997	101.661	0.000	95.475	-0.000	101.661	0.000	0.000	95.479	44.932	0.295	MWD+IFR1+MS
2210	00.000	90.000	179.725	9796.997	102.420	0.000	96.187	-0.000	102.420	0.000	0.000	96.191	44.991	0.294	MWD+IFR1+MS
2220	00.00	90.000	179.725	9796.997	103.179	0.000	96.900	-0.000	103.179	0.000	0.000	96.903	45.050	0.293	MWD+IFR1+MS
223	00.000	90.000	179.725	9796.997	103.938	0.000	97.613	-0.000	103.938	0.000	0.000	97.617	45.110	0.291	MWD+IFR1+MS

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22400.000	90.000	179.725	9796.997	104.698	0.000	98.327	-0.000	104.698	0.000	0.000	98.331	45.170	0.290 MV	VD+IFR1+MS
22500.000	90.000	179.725	9796.997	105.458	0.000	99.042	-0.000	105.458	0.000	0.000	99.046	45.231	0.289 MV	VD+IFR1+MS
22600.000	90.000	179.725	9796.997	106.219	0.000	99.758	-0.000	106.219	0.000	0.000	99.762	45.292	0.287 MV	VD+IFR1+MS
22700.000	90.000	179.725	9796.997	106.979	0.000	100.474	-0.000	106.979	0.000	0.000	100.478	45.353	0.286 MV	VD+IFR1+MS
22800.000	90.000	179.725	9796.997	107.741	0.000	101.191	-0.000	107.741	0.000	0.000	101.195	45.415	0.285 MV	VD+IFR1+MS
22900.000	90.000	179.725	9796.997	108.502	0.000	101.909	-0.000	108.502	0.000	0.000	101.913	45.477	0.283 MV	VD+IFR1+MS
23000.000	90.000	179.725	9796.997	109.264	0.000	102.628	-0.000	109.264	0.000	0.000	102.632	45.539	0.282 MV	VD+IFR1+MS
23100.000	90.000	179.725	9796.997	110.026	0.000	103.347	-0.000	110.026	0.000	0.000	103.351	45.603	0.280 MV	VD+IFR1+MS
23200.000	90.000	179.725	9796.997	110.789	0.000	104.067	-0.000	110.789	0.000	0.000	104.071	45.666	0.279 MV	VD+IFR1+MS
23300.000	90.000	179.725	9796.997	111.551	0.000	104.787	-0.000	111.551	0.000	0.000	104.791	45.730	0.277 MV	VD+IFR1+MS
23400.000	90.000	179.725	9796.997	112.314	0.000	105.508	-0.000	112.314	0.000	0.000	105.512	45.794	0.276 MV	VD+IFR1+MS
23500.000	90.000	179.725	9796.997	113.078	0.000	106.230	-0.000	113.078	0.000	0.000	106.234	45.859	0.274 MV	VD+IFR1+MS
23600.000	90.000	179.725	9796.997	113.842	0.000	106.953	-0.000	113.842	0.000	0.000	106.957	45.924	0.273 MV	VD+IFR1+MS
23700.000	90.000	179.725	9796.997	114.605	0.000	107.675	-0.000	114.605	0.000	0.000	107.679	45.989	0.271 MV	VD+IFR1+MS
23800.000	90.000	179.725	9796.997	115.370	0.000	108.399	-0.000	115.370	0.000	0.000	108.403	46.055	0.269 MV	VD+IFR1+MS
23900.000	90.000	179.725	9796.997	116.134	0.000	109.123	-0.000	116.134	0.000	0.000	109.127	46.121	0.268 MV	VD+IFR1+MS
24000.000	90.000	179.725	9796.997	116.899	0.000	109.848	-0.000	116.899	0.000	0.000	109.852	46.188	0.266 MV	VD+IFR1+MS
24100.000	90.000	179.725	9796.997	117.664	0.000	110.573	-0.000	117.664	0.000	0.000	110.577	46.255	0.264 MV	VD+IFR1+MS
24200.000	90.000	179.725	9796.997	118.429	0.000	111.299	-0.000	118.429	0.000	0.000	111.303	46.323	0.263 MV	VD+IFR1+MS
24300.000	90.000	179.725	9796.997	119.195	0.000	112.025	-0.000	119.195	0.000	0.000	112.029	46.390	0.261 MV	VD+IFR1+MS
24400.000	90.000	179.725	9796.997	119.961	0.000	112.752	-0.000	119.961	0.000	0.000	112.756	46.459	0.260 MV	VD+IFR1+MS
24500.000	90.000	179.725	9796.997	120.727	0.000	113.479	-0.000	120.727	0.000	0.000	113.483	46.527	0.258 MV	VD+IFR1+MS
24600.000	90.000	179.725	9796.997	121.493	0.000	114.207	-0.000	121.493	0.000	0.000	114.211	46.596	0.256 MV	VD+IFR1+MS
24700.000	90.000	179.725	9796.997	122.260	0.000	114.935	-0.000	122.260	0.000	0.000	114.940	46.666	0.254 MV	VD+IFR1+MS
24800.000	90.000	179.725	9796.997	123.026	0.000	115.664	-0.000	123.026	0.000	0.000	115.668	46.735	0.253 MV	VD+IFR1+MS
24900.000	90.000	179.725	9796.997	123.793	0.000	116.394	-0.000	123.793	0.000	0.000	116.398	46.806	0.251 MV	VD+IFR1+MS
25000.000	90.000	179.725	9796.997	124.561	0.000	117.123	-0.000	124.561	0.000	0.000	117.127	46.876	0.249 MV	VD+IFR1+MS
25100.000	90.000	179.725	9796.997	125.328	0.000	117.853	-0.000	125.328	0.000	0.000	117.858	46.947	0.248 MV	VD+IFR1+MS
25200.000	90.000	179.725	9796.997	126.096	0.000	118.584	-0.000	126.096	0.000	0.000	118.588	47.018	0.246 MV	VD+IFR1+MS
25284.706	90.000	179.725	9796.997	126.746	0.000	119.203	-0.000	126.746	0.000	0.000	119.207	47.079	0.245 MV	VD+IFR1+MS
25300.000	90.000	179.725	9796.997	126.863	0.000	119.314	-0.000	126.863	0.000	0.000	119.318	47.090	0.244 MV	VD+IFR1+MS
25334.679	90.000	179.725	9796.997	127.129	0.000	119.567	-0.000	127.129	0.000	0.000	119.571	47.115	0.244 MV	VD+IFR1+MS

Plan Targets	Poker Lake Unit 19 DTD South 122H			
	Measured Depth	<b>Grid Northing</b>	<b>Grid Easting</b>	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
LTP 6	25284.68	424620.20	625643.90	6619.00 RECTANGLE
BHL 6	25334.68	424570.20	625644.00	6619.00 RECTANGLE
FTP 6	10097.69	440279.20	625568.70	6619.00 RECTANGLE

# CACTUS WELLHEAD LLC

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

	XTO ENERGY INDELAWARE BASI	
DRAWN	VJK	31MAR
APPRV		

d Hangers DRAWING NO. HBE0000479

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by OCD: 4/4/2024 5:16:51 FM

**<u>Subject:</u>** 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 3170recognizes 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.

9.788177	5	Pressure Test-	-High Pressureac		
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket		
Annular preventer <sup>b</sup>	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 <sup>bd</sup>	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 <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP		
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	MASP for the well program,		
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program			
Annular(s) and VBR(s) shall be pre For pad drilling operations, moving	during the evaluation period. The passure tested on the largest and sm	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program.		

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 Oand 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

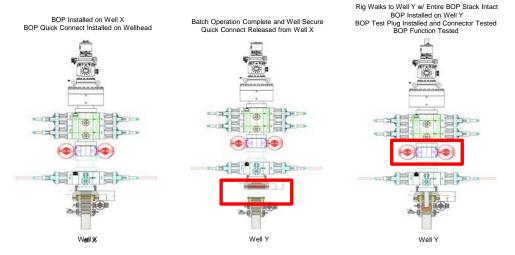
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

#### **Procedures**

- 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



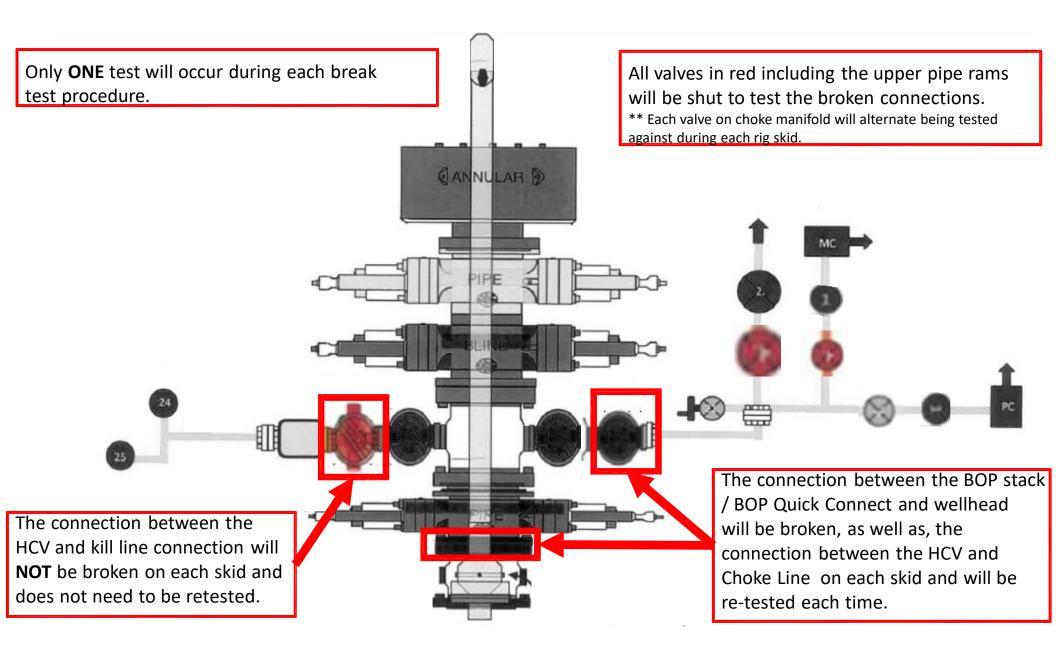
#### **Summary**

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.



# 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

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

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 330340

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	330340
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created	Ву	Condition	Condition Date
ward.ri	ikala	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