Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

Do not use thi	NOTICES AND REPOR is form for proposals to a ll. Use form 3160-3 (APE	drill or to re-	enter an		NMLC063875 6. If Indian, Allottee of	r Tribe Name
SUBMIT IN T	TRIPLICATE - Other insti	ructions on	page 2		7. If Unit or CA/Agree 891000303X	ment, Name and/or No.
Type of Well	er				8. Well Name and No. POKER LAKE UN	IT 27 BD 125H
Name of Operator XTO PERMIAN OPERATING	Contact:	KELLY KARD			9. API Well No. 30-015-46266-0	0 V1
3a. Address	LLC E-Mail: kelly_kardo:	٠,	(include area code)		10. Field and Pool or E	
6401 HOLIDAY HILL ROAD B MIDLAND, TX 79707	LDG 5	Ph: 432-62				-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T.	., R., M., or Survey Description)				11. County or Parish, S	State
Sec 27 T25S R30E SWNE 25 32.101585 N Lat, 103.866913					EDDY COUNTY	, NM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent ■ Notice of Intent Notice of	☐ Acidize	□ Deep	oen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Hydi	aulic Fracturing	□ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	☐ Recomp	olete	
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	□ Tempor	arily Abandon	PD
	☐ Convert to Injection	☐ Plug	Back	☐ Water I	Disposal	
13. Describe Proposed or Completed Ope If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi	ally or recomplete horizontally, g k will be performed or provide to operations. If the operation resonandonment Notices must be file	give subsurface l the Bond No. on ults in a multiple	ocations and measu file with BLM/BIA completion or reco	red and true ve Required sulumpletion in a recommendation.	ertical depths of all perting osequent reports must be new interval, a Form 3160	ent markers and zones. filed within 30 days 0-4 must be filed once
XTO Permian Operating, LLC,	requests permission to m	ake the follo	wing changes to	the original	APD:	
Casing/Cement design per the	e attached drilling program	١.				
XTO also requests the following	ng variances:					
Approval to utilize a spudder rooperations.	ig to pre-set surface casin	g per the atta	ched Descriptio	n of		
Batch drill this well if necessar the well is cemented properly annulus, and the installation of	and the well is static. With	floats holdin	g, no pressure o	n the csg	BLM	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #5 For XTO PERMIA mitted to AFMSS for proce	N OPERATII	G LLC, sent to the	he Carlsbad	•	
Name(Printed/Typed) KELLY KA	ARDOS		Title REGUL	ATORY CO	ORDINATOR	
			D : 00/40/0	200		
Signature (Electronic S	,		Date 06/19/20			
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SE 	
_Approved_By_JENNIFER_SANCHE	<u>z </u>		TitlePETROLE	<u>UM ENGINI</u>	EER	Date 06/22/2020
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condu	itable title to those rights in the		Office Carlsbac	d		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s				willfully to ma	ake to any department or	agency of the United

Additional data for EC transaction #519624 that would not fit on the form

32. Additional remarks, continued

to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

ONLY test broken pressure seals on the BOP equipment per the attached procedure.

A variance is requested to cement offline for the surface and intermediate casing strings.

Attachments:
Drilling Program
Direction Drill Plan
Multibowl Diagram
Spudder Rig Description of Operations
BOP Break Test Procedure

Revisions to Operator-Submitted EC Data for Sundry Notice #519624

Operator Submitted BLM Revised (AFMSS)

APDCH **APDCH** Sundry Type: NOI NOI

Lease: NMLC063875A NMLC063875

Agreement: NMNM71016X 891000303X (NMNM71016X)

XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277 Operator: XTO PERMIAN OPERATING, LLC

6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374

KELLY KARDOS REGULATORY COORDINATOR **KELLY KARDOS** Admin Contact:

REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com E-Mail: kelly_kardos@xtoenergy.com

Ph: 432-620-4374 Ph: 432-620-4374

Tech Contact:

KELLY KARDOS REGULATORY COORDINATOR KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com E-Mail: kelly_kardos@xtoenergy.com

Ph: 432-620-4374 Ph: 432-620-4374

Location:

NM EDDY State: NM County: **EDDY**

Field/Pool: PURPLE SAGE WOLFCAMP PURPLE SAGE-WOLFCAMP (GAS)

POKER LAKE UNIT 27 BD 125H POKER LAKE UNIT 27 BD 125H Well/Facility:

Sec 27 T25S R30E SWNE 2510FNL 2008FEL Sec 27 T25S R30E Mer NMP SWNE 2510FNL 2008FEL

32.101585 N Lat, 103.866913 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Permian Operating, LLC

LEASE NO.: | NMLC-0063875A

WELL NAME & NO.: | Poker Lake Unit 27 BD 125H SURFACE HOLE FOOTAGE: | 2510' FNL & 2008' FEL

BOTTOM HOLE FOOTAGE | 0200' FSL & 2310' FEL Sec. 34, T. 25 S., R 30 E.

LOCATION: Section 27, T. 25 S., R 30 E., NMPM

COUNTY: | **Eddy County, New Mexico**

COA

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other Other
Wellhead	Conventional	© Multibowl	O Both
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	✓ Unit

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red beds, Rustler, and Delaware.

Abnormal pressures may be encountered in the 3rd Bone Spring and all subsequent formations.

A. HYDROGEN SULFIDE

1. 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 Onshore Order 6 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 **11-3/4** inch surface casing shall be set at approximately **1160** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement as proposed. Report Echo meter results on subsequent sundry.
- 3. The minimum required fill of cement behind the 5-1/2 X 5 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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. This assembly will only be tested when installed on the surface casing. 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 OOGO2.III.A.2.i must be followed.

BOP Break Testing Variance

- Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- 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 prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

D. SPECIAL REQUIREMENTS

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.

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
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 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 Onshore Oil and Gas Order No. 2 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 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. 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.
- 4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 5. 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.
- 6. 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.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 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.
- 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 when specified), 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. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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).
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.

- e. 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.
- f. 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.
- g. 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 Onshore Order No. 2.

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.

JAM 06222020

Poker Lake Unit 27 BD 125H

Projected TD: 19169' MD / 10429' TVD SHL: 2510' FNL & 2008' FEL , Section 27, T25S, R30E BHL: 200' FSL & 2310' FEL . Section 34, T25S, R30E Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 11-3/4" cosing @ 1240' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate cosing will be set at 10529' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' - 1240'	11-3/4" 54 BTC		J-55	J-55 New		1.26 3.69		
9-7/8"	0' – 10529'	7-5/8"	29.7	BTC	HCL-80	New	2.02	2.09	2.18
6-3/4"	0' – 10429'	5-1/2"	23	BTC	P-110	New	1.21	2.55	3.02
6-3/4"	10429' - 19169'	5-0"	18	BTC	P-110	New	1.16	2.17	2.25

XTO requests to not utilize centralizers in the curve and lateral

7-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" 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

WELLHEAD:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom

B. Tubing Head: 13-5/8" 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 Onshore Order 2.
Wellhead manufacturer representative may not be present for BOP test plug installation

Cement Program

Surface Casing:

Lead: 430 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing:

1st Stage

Optional Lead: 740 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water) Tail: 820 sxs Halcem - Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Tail: 1280 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water) 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 (6375') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. 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. The final cement top will be verified by Echo-meter.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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 to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, 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 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 wellhead manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing:

Lead: 20 sxs VersaCem (mixed at 11.5 ppg. 2.69 ft3/sx. 15.00 gal/sx water) Tail: 810 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water) 24 hr = 1500psi Compressives: 12-hr = 800 psi

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1240'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1240' - 10529'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.5-9.7	30-32	NC
10529' to 19169'	6-3/4"	Cut Brine / WBM / OBM	10-11	32-36	NC

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

XTO Energy Inc.

Poker Lake Unit 27 Brushy Draw 125H Projected TD: 19169' MD / 10429' TVD SHL: 2510' FNL & 2008' FEL , Section 27, T25S, R30E BHL: 200' FSL & 2310' FEL , Section 34, T25S, R30E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	895'	Water
Top of Salt	1290'	Water
Base of Salt	3692'	Water
Delaware	3910'	Water
Brushy Canyon	6375'	Water/Oil/Gas
Bone Spring	7700'	Water
1st Bone Spring Ss	8642'	Water/Oil/Gas
2nd Bone Spring Ss	9494'	Water/Oil/Gas
3rd Bone Spring Ss	10631'	Water/Oil/Gas
Wolfcamp	11021'	Water/Oil/Gas
Wolfcamp Y	11133'	Water/Oil/Gas
Wolfcamp A	11156'	Water/Oil/Gas
Target/Land Curve	11356'	Water/Oil/Gas

^{***} 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 11-3/4" casing @ 1240' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 10529' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1240'	11-3/4"	54	втс	J-55	J-55 New		3.69	12.69
9-7/8"	0' – 10529'	7-5/8"	29.7	BTC	HCL-80	New	2.02	2.09	2.18
6-3/4"	0' - 10429'	5-1/2"	23	BTC	P-110	New	1.21	2.55	3.02
6-3/4"	10429' - 19169'	5-0"	18	BTC	P-110	New	1.16	2.17	2.25

- \cdot XTO requests to not utilize centralizers in the curve and lateral
- \cdot 7-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- · 5-1/2" 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

Wellhead:

Permanent Wellhead - Multibowl System

- A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom
- B. Tubing Head: 13-5/8" 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

^{***} Groundwater depth 40' (per NM State Engineers Office).

4. Cement Program

Surface Casing: 11-3/4", 54 New J-55, BTC casing to be set at +/- 1240'

Lead: 430 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

TOC: Surface

Intermediate Casing: 7-5/8", 29.7 New HCL-80, BTC casing to be set at +/- 10529'

1st Stage

Optional Lead: 740 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 820 sxs Halcem - Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 900 psi 24 hr = 1150psi

TOC: Brushy Canyon (6375')

2nd Stage

Tail: 1280 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water)

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

TOC: Surface

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 (6375') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. 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. The final cement top will be verified by Echo-meter.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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 to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, 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 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 wellhead manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5-1/2", 23 New P-110, BTC x 5-0", 18 New P-110, BTC casing to be set at +/- 19169'

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 810 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)

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

TOC: 300' inside previous shoe

5. Pressure Control Equipment

Once the permanent WH is installed on the 11-3/4" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M 3-Ram BOP. MASP should not exceed 3702 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). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nippling up on the 11-3/4", 5M bradenhead and flange, the BOP test will be limited to 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 each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per wellhead manufacturer recommendations, XTO will contact the BLM on each rig skid on the pad. Once surface and 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 (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole

A variance is requested to cement offline for the surface and intermediate casing strings.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1240'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1240' - 10529'	10529' 9-7/8"		8.5-9.7	30-32	NC
10529' to 19169'	6-3/4"	Cut Brine / WBM / OBM	10-11	32-36	NC

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

Spud with fresh water/native mud and set 11-3/4" surface casing, isolating the fresh water aquifer. Drill out from under 11-3/4" surface casing with a brine/oil direct emulsion mud system. 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 11-3/4" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

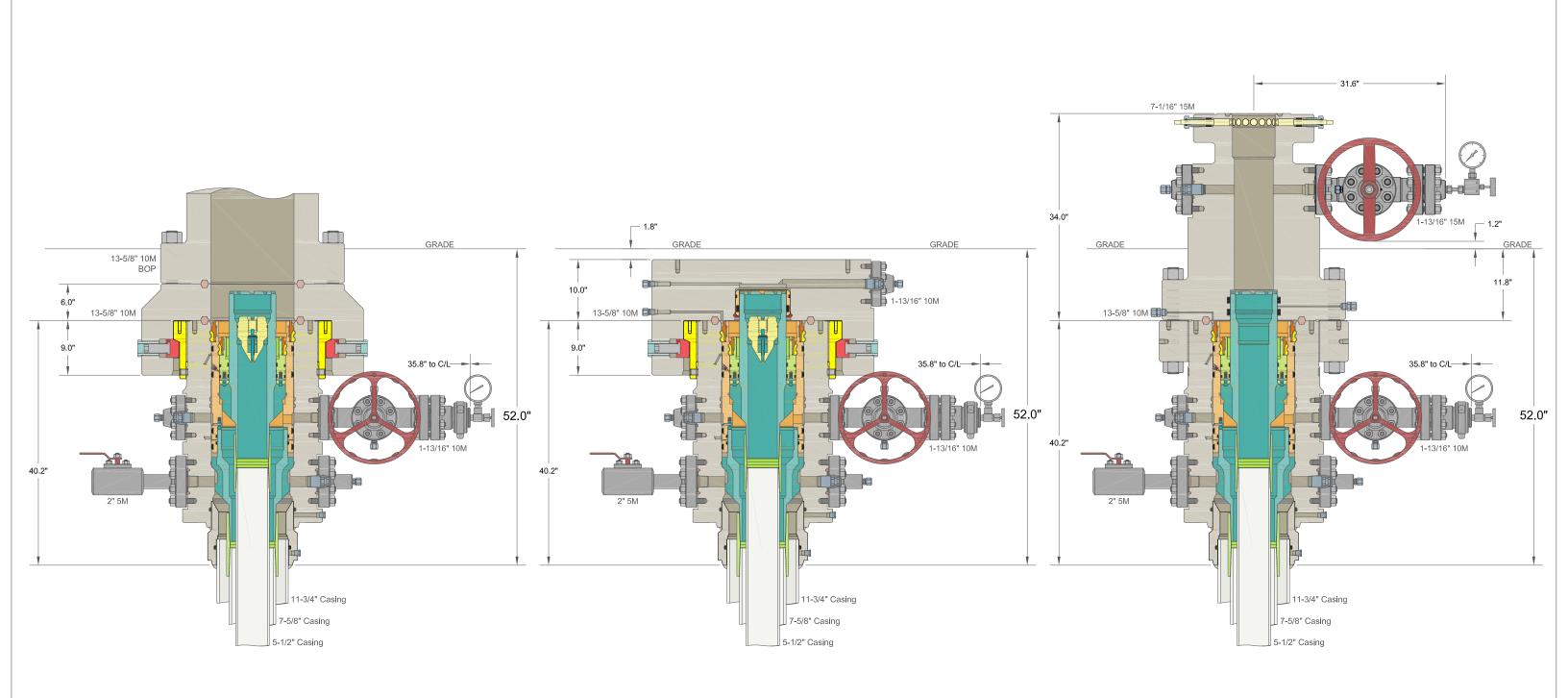
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 150 to 170 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 6200 psi.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



DRILLING SKID COMPLETION

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	_	XTO ENERGY IN POKER LAKE, N	
30" x 11-3/4" x 7-5/8" x 5-1/2" MBU-3T-SF SOW Wellhead System	DRAWN	DLE	09DEC19
	APPRV		
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head		005000	0004
And 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWING N	o. ODE000	3261

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Schlumberger

XTO Poker Lake Unit 27 BD 125H Rev1 LP 15Jun20 Proposal Geodetic Report



(Def Plan)

Report Date: Client: Field: June 15, 2020 - 06:17 PM XTO Energy NM Eddy County (NAD 27)

XTO Poker Lake Unit 27 BD 125H / New Slot XTO Poker Lake Unit 27 BD 125H Structure / Slot:

Well: Borehole: XTO Poker Lake Unit 27 BD 125H

UWI / API#: Unknown / Unknown

Survey Name: XTO Poker Lake Unit 27 BD 125H Rev1 LP 15Jun20

Survey Date: Tort / AHD / DDI / ERD Ratio:

June 11, 2020 97.003 ° / 8402.621 ft / 6.139 / 0.740

Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 6° 5.25368°, W 103° 51′ 59.14974° Location Grid NE Y/X: N 400947.200 ftUS, E 644578.500 ftUS 0.2481 °

Grid Scale Factor: 0.99993303 Version / Patch: 2.10.811.0

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum:

TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination:

Total Gravity Field Strength: Gravity Model: Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date:

Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid

Minimum Curvature / Lubinski 182.144 ° (Grid North) 0.000 ft, 0.000 ft

RKB

3310.000 ft above MSL 3287.000 ft above MSL

6.613° 998.7431mgn (9.80665 Based)

GARM 47720.093 nT 59.728 ° June 11, 2020 HDGM 2020 Grid North 0.2481° 6.3645°

Local Coord Referenced To:

Well Head

Surface Dollo	Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
1900 0.00 22:18 70.00 0.00		0.00	0.00	238.68									
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Schlumberger-Private Drilling Office 2.10.811.0 6/18/2020 2:22 PM Page 1 of 3

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
	(ft) 6500.00	3.50	292.16	(ft) 6490.96	-102.07	(ft) 112.48	-276.11	(°/100ft) 0.00	(ftUS) 401059.67	(ftUS) (N/S ° ' ") (E/W ° ' ") 644302.41 N 32 6 6.38 W 103 52 2.35
	6600.00 6700.00	3.50 3.50	292.16 292.16	6590.78 6690.59	-104.16 -106.25	114.78 117.08	-281.77 -287.42	0.00	401061.97 401064.28	644296.75 N 32 6 6.40 W 103 52 2.42 644291.10 N 32 6 6.42 W 103 52 2.49
	6800.00	3.50	292.16	6790.40	-108.34	119.39	-293.07	0.00	401066.58	644285.45 N 32 6 6.45 W 103 52 2.55
Drop 1.5°/100' DLS	6835.84	3.50	292.16	6826.18	-109.09	120.21	-295.10	0.00	401067.40	644283.42 N 32 6 6.46 W 103 52 2.57
	6900.00	2.54	292.16	6890.25	-110.24	121.49	-298.23	1.50	401068.68	644280.29 N 32 6 6.47 W 103 52 2.61
Hold	7000.00 7069.19	1.04 0.00	292.16 292.16	6990.20 7059.38	-111.31 -111.53	122.66 122.90	-301.12 -301.70	1.50 1.50	401069.86 401070.09	644277.40 N 32 6 6.48 W 103 52 2.64 644276.82 N 32 6 6.48 W 103 52 2.65
	7100.00 7200.00	0.00 0.00	292.16 292.16	7090.19 7190.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	7300.00	0.00	292.16	7290.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	7400.00 7500.00	0.00	292.16 292.16	7390.19 7490.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	7600.00	0.00	292.16	7590.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
BSPG	7700.00 7709.81	0.00 0.00	292.16 292.16	7690.19 7700.00	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
BSPG_AVLN_S S	7728.81	0.00	292.16	7719.00	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
BSPG_U_AVLN	7743.81	0.00	292.16	7734.00	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
_SH	7800.00	0.00	292.16	7790.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	7900.00	0.00	292.16	7890.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	8000.00 8100.00	0.00 0.00	292.16 292.16	7990.19 8090.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
BSPG_L_AVLN	8140.81	0.00	292.16	8131.00	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
_SH	8200.00	0.00	292.16	8190.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	8300.00 8400.00	0.00	292.16 292.16	8290.19 8390.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	8500.00	0.00	292.16	8490.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
BSPG1	8600.00 8651.81	0.00 0.00	292.16 292.16	8590.19 8642.00	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
20.07	8700.00	0.00	292.16	8690.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	8800.00 8900.00	0.00	292.16 292.16	8790.19 8890.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
DCDC2 III	9000.00	0.00	292.16	8990.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
BSPG2_LM	<i>9044.81</i> 9100.00	0.00 0.00	292.16 292.16	9035.00 9090.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	9200.00 9300.00	0.00	292.16 292.16	9190.19 9290.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	9400.00	0.00	292.16	9390.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
BSPG2	9500.00 9503.81	0.00 0.00	292.16 292.16	9490.19 9494.00	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 <i>0.00</i>	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
20, 02	9600.00	0.00	292.16	9590.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	9700.00 9800.00	0.00 0.00	292.16 292.16	9690.19 9790.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
BSPG3_LM	9845.81	0.00	292.16	9836.00	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
7.625in Casing	9900.00 9909.81	0.00 0.00	292.16 292.16	9890.19 9900.00	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	10000.00 10100.00	0.00 0.00	292.16 292.16	9990.19 10090.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	10200.00	0.00	292.16	10190.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
BSPG_HRKY	10213.81 10300.00	0.00 0.00	292.16 292.16	10204.00 10290.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
	10400.00	0.00	292.16	10390.19	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
	10500.00 10600.00	0.00	292.16 292.16	10490.19 10590.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
BSPG3	10640.81 10700.00	0.00 0.00	292.16 292.16	10631.00 10690.19	-111.53 -111.53	122.90 122.90	-301.70 -301.70	0.00 0.00	401070.09 401070.09	644276.82 N 32 6 6.48 W 103 52 2.65 644276.82 N 32 6 6.48 W 103 52 2.65
KOP 9°/100'	10700.00	0.00	292.16	10719.38	-111.53	122.90	-301.70	0.00	401070.09	644276.82 N 32 6 6.48 W 103 52 2.65
DLS	10800.00	6.37	179.97	10790.05	-107.59	118.97	-301.70	9.00	401066.16	644276.82 N 32 6 6.44 W 103 52 2.65
	10900.00	15.37	179.97	10888.15	-88.76	100.12	-301.69	9.00	401047.32	644276.83 N 32 6 6.26 W 103 52 2.65
WFMP	11000.00 11043.41	24.37 28.28	179.97 179.97	10982.10 11021.00	-54.83 -35.59	66.16 46.91	-301.67 -301.66	9.00 9.00	401013.36 400994.11	644276.85 N 32 6 5.92 W 103 52 2.65 644276.86 N 32 6 5.73 W 103 52 2.65
WFMP_X	11076.83 11100.00	31.29 33.37	<i>17</i> 9.97 179.97	11050.00 11069.58	-19.01 -6.63	30.32 17.93	-301.65 -301.65	9.00 9.00	400977.51 400965.12	644276.87 N 32 6 5.57 W 103 52 2.65 644276.88 N 32 6 5.44 W 103 52 2.66
WFMP_Y	11179.41	40.52	179.97	11133.00	41.04	-29.77	-301.62	9.00	400917.43	644276.90 N 32 6 4.97 W 103 52 2.66
WFMP_A	11200.00 11210.32	42.37 43.30	179.97 179.97	11148.43 11156.00	54.66 <i>61.67</i>	-43.40 -50.42	-301.61 -301.61	9.00 9.00	400903.80 400896.78	644276.91 N 32 6 4.84 W 103 52 2.66 644276.91 N 32 6 4.77 W 103 52 2.66
	11300.00	51.37	179.97	11216.72	127.51	-116.31	-301.57	9.00	400830.90	644276.95 N 32 6 4.12 W 103 52 2.66
WFMP_A_LOW ER	11330.18	54.09	179.97	11235.00	151.51	-140.33	-301.56	9.00	400806.88	644276.96 N 32 6 3.88 W 103 52 2.66
	11400.00 11500.00	60.37 69.37	179.97 179.97	11272.77 11315.19	210.15 300.53	-199.01 -289.45	-301.53 -301.48	9.00 9.00	400748.21 400657.77	644276.99 N 32 6 3.30 W 103 52 2.66 644277.04 N 32 6 2.40 W 103 52 2.67
	11600.00	78.37	179.97	11342.94	396.42	-385.42	-301.43	9.00	400561.81	644277.09 N 32 6 1.45 W 103 52 2.67
Landing Point	11700.00 11729.19	87.37 90.00	179.97 179.97	11355.33 11356.00	495.48 524.64	-484.54 -513.72	-301.38 -301.37	9.00 9.00	400462.69 400433.52	644277.14 N 32 6 0.47 W 103 52 2.68 644277.15 N 32 6 0.18 W 103 52 2.68
Hold to TD	11729.32	90.00	179.97	11356.00	524.77	-513.85	-301.37	2.00	400433.38	644277.15 N 32 6 0.18 W 103 52 2.68
	11800.00 11900.00	90.00 90.00	179.97 179.97	11356.00 11356.00	595.40 695.32	-584.53 -684.53	-301.33 -301.29	0.00 0.00	400362.71 400262.72	644277.19 N 32 5 59.48 W 103 52 2.68 644277.24 N 32 5 58.49 W 103 52 2.69
	12000.00	90.00	179.97	11356.00	795.25	-784.53	-301.24	0.00	400162.72	644277.28 N 32 5 57.50 W 103 52 2.69
	12100.00 12200.00	90.00 90.00	179.97 179.97	11356.00 11356.00	895.18 995.11	-884.53 -984.53	-301.19 -301.14	0.00 0.00	400062.73 399962.74	644277.33 N 32 5 56.51 W 103 52 2.70 644277.38 N 32 5 55.52 W 103 52 2.70
	12300.00	90.00	179.97	11356.00	1095.04	-1084.53	-301.09	0.00	399862.74	644277.43 N 32 5 54.53 W 103 52 2.70
	12400.00 12500.00	90.00 90.00	179.97 179.97	11356.00 11356.00	1194.97 1294.89	-1184.53 -1284.53	-301.05 -301.00	0.00 0.00	399762.75 399662.76	644277.47 N 32 5 53.54 W 103 52 2.71 644277.52 N 32 5 52.56 W 103 52 2.71
	12600.00 12700.00	90.00 90.00	179.97 179.97	11356.00 11356.00	1394.82 1494.75	-1384.53 -1484.53	-300.95 -300.90	0.00	399562.76 399462.77	644277.57 N 32 5 51.57 W 103 52 2.72 644277.62 N 32 5 50.58 W 103 52 2.72
	12800.00	90.00	179.97	11356.00	1594.68	-1584.53	-300.86	0.00	399362.78	644277.66 N 32 5 49.59 W 103 52 2.73
	12900.00 13000.00	90.00 90.00	179.97 179.97	11356.00 11356.00	1694.61 1794.53	-1684.53 -1784.53	-300.81 -300.76	0.00	399262.79 399162.79	644277.71 N 32 5 48.60 W 103 52 2.73 644277.76 N 32 5 47.61 W 103 52 2.74
	13100.00	90.00	179.97	11356.00	1894.46	-1884.53	-300.71	0.00	399062.80	644277.81 N 32 5 46.62 W 103 52 2.74
	13200.00 13300.00	90.00 90.00	179.97 179.97	11356.00 11356.00	1994.39 2094.32	-1984.53 -2084.53	-300.67 -300.62	0.00	398962.81 398862.81	644277.86 N 32 5 45.63 W 103 52 2.74 644277.90 N 32 5 44.64 W 103 52 2.75
	13400.00	90.00	179.97	11356.00	2194.25	-2184.53	-300.57	0.00	398762.82	644277.95 N 32 5 43.65 W 103 52 2.75
	13500.00 13600.00	90.00 90.00	179.97 179.97	11356.00 11356.00	2294.18 2394.10	-2284.53 -2384.53	-300.52 -300.48	0.00	398662.83 398562.83	644278.00 N 32 5 42.66 W 103 52 2.76 644278.05 N 32 5 41.67 W 103 52 2.76
	13700.00	90.00	179.97	11356.00	2494.03	-2484.53	-300.43	0.00	398462.84	644278.09 N 32 5 40.68 W 103 52 2.77
	13800.00 13900.00	90.00 90.00	179.97 179.97	11356.00 11356.00	2593.96 2693.89	-2584.53 -2684.53	-300.38 -300.33	0.00	398362.85 398262.85	644278.14 N 32 5 39.69 W 103 52 2.77 644278.19 N 32 5 38.70 W 103 52 2.78
	14000.00 14100.00	90.00 90.00	179.97 179.97	11356.00 11356.00	2793.82 2893.74	-2784.53 -2884.53	-300.28 -300.24	0.00	398162.86 398062.87	644278.24 N 32 5 37.71 W 103 52 2.78 644278.28 N 32 5 36.72 W 103 52 2.78
	14200.00	90.00	179.97	11356.00	2993.67	-2984.53	-300.19	0.00	397962.88	644278.33 N 32 5 35.73 W 103 52 2.79
	14300.00 14400.00	90.00 90.00	179.97 179.97	11356.00 11356.00	3093.60 3193.53	-3084.53 -3184.53	-300.14 -300.09	0.00 0.00	397862.88 397762.89	644278.38 N 32 5 34.74 W 103 52 2.79 644278.43 N 32 5 33.75 W 103 52 2.80
	14500.00	90.00	179.97	11356.00	3293.46	-3284.53	-300.05	0.00	397662.90	644278.47 N 32 5 32.76 W 103 52 2.80
	14600.00	90.00	179.97	11356.00	3393.39	-3384.53	-300.00	0.00	397562.90	644278.52 N 32 5 31.77 W 103 52 2.81

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S ° ' ")	(E/W ° ' ")
	14700.00	90.00	179.97	11356.00	3493.31	-3484.53	-299.95	0.00	397462.91		N 32 5 30.79 \	
	14800.00	90.00	179.97	11356.00	3593.24	-3584.53	-299.90	0.00	397362.92		N 32 5 29.80 \	
	14900.00	90.00	179.97	11356.00	3693.17	-3684.53	-299.86	0.00	397262.92		N 32 5 28.81 \	
	15000.00	90.00	179.97	11356.00	3793.10	-3784.53	-299.81	0.00	397162.93		N 32 5 27.82 \	
	15100.00	90.00	179.97	11356.00	3893.03	-3884.53	-299.76	0.00	397062.94		N 32 5 26.83 \	
	15200.00	90.00	179.97	11356.00	3992.95	-3984.53	-299.71	0.00	396962.94		N 32 5 25.84 V	
	15300.00	90.00	179.97	11356.00	4092.88	-4084.53	-299.66	0.00	396862.95	644278.86	N 32 5 24.85 \	W 103 52 2.84
	15400.00	90.00	179.97	11356.00	4192.81	-4184.53	-299.62	0.00	396762.96	644278.90	N 32 5 23.86 \	W 103 52 2.84
	15500.00	90.00	179.97	11356.00	4292.74	-4284.53	-299.57	0.00	396662.96	644278.95	N 32 5 22.87 \	W 103 52 2.85
	15600.00	90.00	179.97	11356.00	4392.67	-4384.53	-299.52	0.00	396562.97	644279.00	N 32 5 21.88 \	W 103 52 2.85
	15700.00	90.00	179.97	11356.00	4492.60	-4484.53	-299.47	0.00	396462.98	644279.05	N 32 5 20.89 \	W 103 52 2.86
	15800.00	90.00	179.97	11356.00	4592.52	-4584.53	-299.43	0.00	396362.99	644279.09	N 32 5 19.90 \	W 103 52 2.86
	15900.00	90.00	179.97	11356.00	4692.45	-4684.53	-299.38	0.00	396262.99	644279.14	N 32 5 18.91 \	W 103 52 2.87
	16000.00	90.00	179.97	11356.00	4792.38	-4784.53	-299.33	0.00	396163.00	644279.19	N 32 5 17.92 \	W 103 52 2.87
	16100.00	90.00	179.97	11356.00	4892.31	-4884.53	-299.28	0.00	396063.01	644279.24	N 32 5 16.93 \	W 103 52 2.87
	16200.00	90.00	179.97	11356.00	4992.24	-4984.53	-299.24	0.00	395963.01	644279.28	N 32 5 15.94 \	W 103 52 2.88
	16300.00	90.00	179.97	11356.00	5092.16	-5084.53	-299.19	0.00	395863.02	644279.33	N 32 5 14.95 \	W 103 52 2.88
	16400.00	90.00	179.97	11356.00	5192.09	-5184.53	-299.14	0.00	395763.03	644279.38	N 32 5 13.96 \	W 103 52 2.89
	16500.00	90.00	179.97	11356.00	5292.02	-5284.53	-299.09	0.00	395663.03	644279.43	N 32 5 12.97 \	W 103 52 2.89
	16600.00	90.00	179.97	11356.00	5391.95	-5384.53	-299.05	0.00	395563.04	644279.48	N 32 511.98 \	W 103 52 2.90
	16700.00	90.00	179.97	11356.00	5491.88	-5484.53	-299.00	0.00	395463.05	644279.52	N 32 5 10.99 \	W 103 52 2.90
	16800.00	90.00	179.97	11356.00	5591.81	-5584.53	-298.95	0.00	395363.05	644279.57	N 32 5 10.00 V	W 103 52 2.91
	16900.00	90.00	179.97	11356.00	5691.73	-5684.53	-298.90	0.00	395263.06	644279.62	N 32 5 9.01 \	W 103 52 2.91
	17000.00	90.00	179.97	11356.00	5791.66	-5784.53	-298.85	0.00	395163.07		N 32 5 8.03 \	
	17100.00	90.00	179.97	11356.00	5891.59	-5884.53	-298.81	0.00	395063.08		N 32 5 7.04 \	
	17200.00	90.00	179.97	11356.00	5991.52	-5984.53	-298.76	0.00	394963.08		N 32 5 6.05 \	
	17300.00	90.00	179.97	11356.00	6091.45	-6084.53	-298.71	0.00	394863.09	644279.81	N 32 5 5.06 \	W 103 52 2.93
	17400.00	90.00	179.97	11356.00	6191.37	-6184.53	-298.66	0.00	394763.10		N 32 5 4.07 \	
	17500.00	90.00	179.97	11356.00	6291.30	-6284.53	-298.62	0.00	394663.10	644279.90	N 32 5 3.08 \	W 103 52 2.94
	17600.00	90.00	179.97	11356.00	6391.23	-6384.53	-298.57	0.00	394563.11		N 32 5 2.09 \	
	17700.00	90.00	179.97	11356.00	6491.16	-6484.53	-298.52	0.00	394463.12		N 32 5 1.10 V	
	17800.00	90.00	179.97	11356.00	6591.09	-6584.53	-298.47	0.00	394363.12		N 32 5 0.11 \	
	17900.00	90.00	179.97	11356.00	6691.02	-6684.53	-298.43	0.00	394263.13		N 32 459.12 V	
	18000.00	90.00	179.97	11356.00	6790.94	-6784.53	-298.38	0.00	394163.14		N 32 458.13 \	
	18100.00	90.00	179.97	11356.00	6890.87	-6884.53	-298.33	0.00	394063.14		N 32 457.14 V	
	18200.00	90.00	179.97	11356.00	6990.80	-6984.53	-298.28	0.00	393963.15		N 32 4 56.15 \	
	18300.00	90.00	179.97	11356.00	7090.73	-7084.53	-298.23	0.00	393863.16		N 32 455.16 V	
	18400.00	90.00	179.97	11356.00	7190.66	-7184.53	-298.19	0.00	393763.17		N 32 454.17 \	
	18500.00	90.00	179.97	11356.00	7290.58	-7284.53	-298.14	0.00	393663.17		N 32 453.18 V	
	18600.00	90.00	179.97	11356.00	7390.51	-7384.53	-298.09	0.00	393563.18		N 32 452.19 V	
	18700.00	90.00	179.97	11356.00	7490.44	-7484.53	-298.04	0.00	393463.19		N 32 451.20 V	
	18800.00	90.00	179.97	11356.00	7590.37	-7584.53	-298.00	0.00	393363.19		N 32 450.21 \	
	18900.00	90.00	179.97	11356.00	7690.30	-7684.53	-297.95	0.00	393263.20		N 32 449.22 \	
	19000.00	90.00	179.97	11356.00	7790.23	-7784.53	-297.90	0.00	393163.21		N 32 448.23 \	
	19100.00	90.00	179.97	11356.00	7890.15	-7884.53	-297.85	0.00	393063.21		N 32 447.24 \	
LP (WFMP_A)	.0.00.00	00.00					201.00	0.00	300000.21	0.1200.01	5227	50 02 0.01
XTO Poker Lake												
Unit 27 BD 125H	19169.42	90.00	179.97	11356.00	7959.52	-7953.95	-297.82	0.00	392993.80	644280.70	N 32 4 46.56 \	W 103 52 3.01
- BHL												

Survey Type:

Def Plan

Survey Error Model: Survey Program:

ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ng Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/100.000	14.750	11.750		NAL_MWD_1.0_DEG-Depth Only	XTO Poker Lake Unit 27 BD 125H / XTO Poker Lake Unit 27 BD 125H Rev1 LP 15Jun20
	1	23.000	1250.000	1/100.000	14.750	11.750		NAL_MWD_1.0_DEG	XTO Poker Lake Unit 27 BD 125H / XTO Poker Lake Unit 27 BD
	1	1250.000	10730.000	1/100.000	9.875	7.625		NAL_MWD_1.0_DEG	XTO Poker Lake Unit 27 BD 125H / XTO Poker Lake Unit 27 BD
	1	10730.000	19169.418	1/100.000	6.750	5.500		NAL_MWD_IFR1+MS	XTO Poker Lake Unit 27 BD 125H / XTO Poker Lake Unit 27 BD

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 (OOGO) No. 2, 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. OOGO No. 2, Section I.D.2 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 OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 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 OOGO No. 2 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. OOGO No. 2 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.

Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokese	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	
	during the evaluation period. The p	oressure shall not decrease below the	
	from one wellhead to another within when the integrity of a pressure sea	n the 21 days, pressure testing is req	uired for pressure-containing an

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.

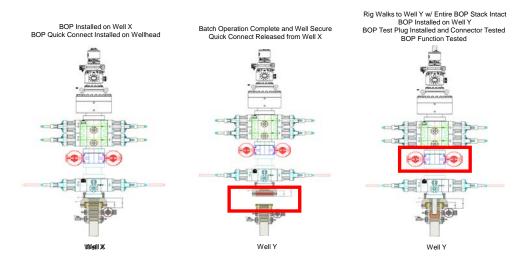
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (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 OOGO No. 2.

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



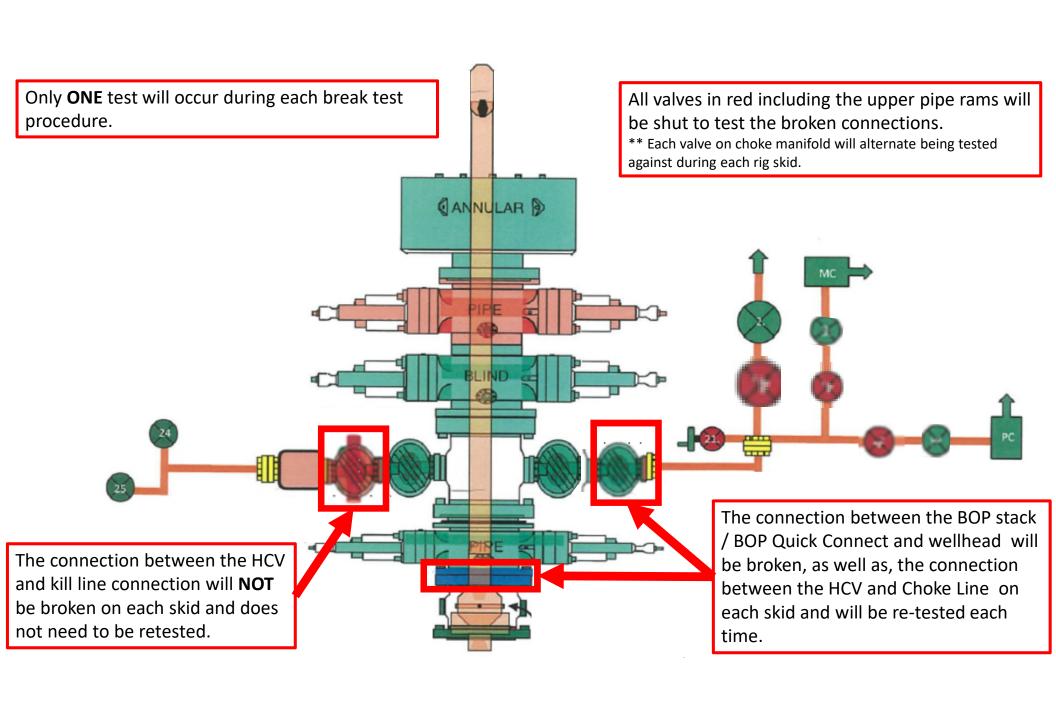
Summary

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.



XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.