BI SUNDRY Do not use the abandoned we	UNITED STATES EPARTMENT OF THE II UREAU OF LAND MANA NOTICES AND REPO is form for proposals to II. Use form 3160-3 (AP TRIPLICATE - Other inst	S NTERIOR GEMENT RTS ON WE drill or to re- D) for such p	enter an roposals.	2020	FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMLC061705B 6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No. 891000303X		
1. Type of Well ☐ Oil Well ⊠ Gas Well ☐ Oth	ner				 Well Name and No. POKER LAKE UNI 	T 17 TV	VR 128H
2. Name of Operator XTO PERMIAN OPERATING	Contact:			9. API Well No. 30-015-46719-00	D-X1		
3a. Address 6401 HOLIDAY HILL ROAD E MIDLAND, TX 79707	BLDG 5	3b. Phone No. Ph: 432-62	(include area code) 0-4374)	10. Field and Pool or E PURPLE SAGE-	xplorator WOLF	ry Area CAMP (GAS)
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, S	tate	
Sec 20 T24S R31E NENE 25 32.210014 N Lat, 103.793831					EDDY COUNTY	, NM	
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	ΓΕ NATURE O	F NOTICE,	REPORT, OR OTH	ER DA	ТА
TYPE OF SUBMISSION	F ACTION						
☑ Notice of Intent	otice of Intent				ion (Start/Resume)	🗆 Wa	ater Shut-Off
_	□ Alter Casing	🗖 Hyd	raulic Fracturing	🗖 Reclama	ation	🗆 We	ell Integrity
Subsequent Report	Casing Repair	□ New	Construction	Recomp	lete	Oth Chang	her ge to Original A
☐ Final Abandonment Notice	Change Plans	-	and Abandon	Temporarily Abandon		PD	
10 D 11 D 1 C 1, 10	Convert to Injection	Plug			-		
13. Describe Proposed or Completed Op If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for final	ally or recomplete horizontally, rk will be performed or provide operations. If the operation re bandonment Notices must be fil	give subsurface the Bond No. on sults in a multiple	locations and measu file with BLM/BIA e completion or reco	red and true ve A. Required sub completion in a r	rtical depths of all pertine osequent reports must be f new interval, a Form 3160	nt marke iled with -4 must	ers and zones. nin 30 days be filed once
XTO Permian Operating,LLC	requests permission to m	ake the follow	ing changes to	the original A	APD:		
Casing/Cement design per the	e attached drilling program	n.					
Change the BHL from 2440FN	IL & 330FEL in Sec. 32-T	24S-R31E to	220FSL & 430F	EL in Sec. 2	9-T24S-R31E.		
XTO also requests the following	ng variances:						
XTO requests to use a 5000 p requested to test the 5M annu				ariance is			
Approval to utilize a spudder r	ig to pre-set surface casir	ng per the atta	ached Descriptic	on of			
	Electronic Submission # For XTO PERMI nmitted to AFMSS for proc	AN OPERATII	IG LLC, sent to t SCILLA PEREZ o	he Carlsbad n 06/05/2020	(20PP3091SE)		
Name(Printed/Typed) KELLY KA	ARDOS		Title REGUL	ATORY CO	ORDINATOR		
Signature (Electronic S	Submission)		Date 06/04/2	020			
	THIS SPACE FO	DR FEDERA	L OR STATE	OFFICE U	SE		
Approved ByJENNIFER_SANCHI Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	d. Approval of this notice does uitable title to those rights in the	not warrant or e subject lease	TitlePETROLE		EER	E	Date 06/12/2020
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a		rson knowingly and	l willfully to ma	ke to any department or a	igency of	f the United
States any false, fictitious or fraudulent s (Instructions on page 2)	statements or representations as	to any matter wi	unin its jurisdiction.				

** BLM REVISED **

Additional data for EC transaction #517856 that would not fit on the form

32. Additional remarks, continued

Operations.

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 GE recommendations, XTO will contact the BLM 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.

Attachments: C102 & Supplement Drilling Program Multibowi Diagram 5M10M BOP Wild Well Control Plan Spudder Rig Description of Operations BOP Break Test Procedure

Revisions to Operator-Submitted EC Data for Sundry Notice #517856

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMLC061705B	NMLC061705B
Agreement:	NMNM71016X	891000303X (NMNM71016X)
Operator:	XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com
	Ph: 432-620-4374	Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com
	Ph: 432-620-4374	Ph: 432-620-4374
Location: State: County:	NM EDDY	NM EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	POKER LAKE UNIT 17 TWR 128H Sec 20 T24S R31E Mer NMP NENE 25FNL 785FEL	POKER LAKE UNIT 17 TWR 128H Sec 20 T24S R31E NENE 25FNL 785FE

Sec 20 T24S R31E NENE 25FNL 785FEL 32.210014 N Lat, 103.793831 W Lon

PECOS DISTRICT DRILLING DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC.
LEASE NO.:	NMLC-0061705B
WELL NAME & NO.:	Poker Lake Unit 17 TWR 128H
SURFACE HOLE FOOTAGE:	0025' FNL & 0785' FEL
BOTTOM HOLE FOOTAGE	0220' FSL & 0430' FEL Sec. 29, T. 24 S., R 31 E.
LOCATION:	Section 20, T. 24 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

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

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware. Abnormal pressure 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 **922** 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 <u>8</u> <u>hours</u> 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. Excess calculates to 19% Additional cement may be required.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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).

- 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 10,000 (10M) psi. Variance approved to use a 5M annular. The annular must be tested to 70% working pressure (3500 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.
- 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 <u>8 hours</u>. 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 06112020

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District III</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	r		² Pool Code		³ Pool Name					
	30-015- 4	6719	98220) PURPLE SAGE; WOLFCAMP							
⁴ Property 0 325469	Code				⁶ Well Number 128H						
POKER LAKE UNIT 17 TWR 7 OGRID No. 373075 XTO PERMIAN OPERATING, LLC.										⁹ Elevation 3,522'	
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
А	20	24 S	31 E		25	NORTH	785	EAS	ST	EDDY	
			¹¹ Bot	ttom Hol	e Location I	f Different Fron	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
Р	29	24 S	31 E		220	SOUTH	430	EAS	ST	EDDY	
¹² Dedicated Acres 640	s ¹³ Joint of	r Infill ¹⁴ C	onsolidation (Code ¹⁵ Or	der No.	· · · · · · ·					

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

16		()					
	SEC. 17	330	S.H.L. SEC	. 16	SHL (NAD83 NME) Y = 440.556.1	LTP (NAD83 NME) Y = 430.349.8	¹⁷ OPERATOR CERTIFICATION
	500.11	F			Y = 440,556.1 X = 708,195.0	Y = 430,349.8 X = 708,613.5	I hereby certify that the information contained herein is true and complete
		╧┼┦╋╧╤╍	785'		LAT. = 32.210015 °N	LAT. = 32.181954 °N	to the best of my knowledge and belief, and that this organization either
	GRID AZ.=130'18'		+ 430'		LONG. = 103.793833 °W	LONG. = 103.792646 °V	
	HORIZ. DIST.=467	.81'	F.T.P.		FTP (NAD83 NME)	BHL (NAD83 NME)	the proposed bottom hole location or has a right to drill this well at this
					Y = 440,253.5	Y = 430,239.8	
					X = 708,551.8	X = 708,614.2	location pursuant to a contract with an owner of such a mineral or working
					LAT. = 32.209178 °N	LAT. = 32.181651 °N	interest, or to a voluntary pooling agreement or a compulsory pooling
	1				LONG. = 103.792684 °W	LONG. = 103.792645 °V	V order heretofore entered by the division.
	SEC. 20		B SEC.	21	CORNER COORD	NATES (NAD83 NME)	SVC 00 SVC -
			F		A - Y = 440,586.4 N	, X = 708,979.7 E	Kelly Kardos 4-6-20
	T24S R31E		ין וי		B-Y= 437,947.7 N	, X = 708,996.2 E	Signature Date
		330' 🗖	4		C - Y = 435,304.7 N		
			l l		D-Y= 432,663.6 N		Kelly Kardos
		! + + -			E-Y= 430,022.4 N		Printed Name
		- I	4		F-Y= 440,577.6 N G-Y= 437.938.4 N	, , ,	
		1	1		G - Y = 437,938.4 N H - Y = 435,296.6 N		kelly_kardos@xtoenergy.com
					I-Y= 432,655.5 N		E-mail Address
		н н	C		J - Y = 430,014.3 N		
			1		SHL (NAD27 NME)	LTP (NAD27 NME)	
	GRID AZ.=179*3 HORIZ. DIST.=10.0	13 95'			Y = 440,497.2	Y = 430,291.1	18SURVEYOR CERTIFICATION
	10002. 000110,0	10.50			X = 667,011.0	X = 667,429.1	I hereby certify that the well location shown on this
		_!	<u></u>		LAT. = 32.209891 °N	LAT. = 32.181830 °N	plat was plotted from field notes of actual surveys
					LONG. = 103.793349 °W	LONG. = 103.792163 °V	I plat was protied from field notes of actual surveys
		1			FTP (NAD27 NME)	BHL (NAD27 NME)	made by me or under my supervision, and that the
		1	D SEC.	00	Y = 440,194.6	Y = 430,181.1	same is true and correct to the best of my belief.
	SEC. 29	- 비 -	D - SEC.	~0 _	X = 667,367.8	X = 667,429.8	
	T24S R31E		!	1	LAT. = 32.209054 °N	LAT. = 32.181527 °N	
			!	1	LONG. = 103.792200 °W	LONG. = 103.792162 °V	
			!			NATES (NAD27 NME) , X = 667,795.7 E	Date of Survey Signatue and Seal of
	' <u> </u>	_'	<u> </u>	'	A - Y = 440,527.5 N B - Y = 437,888.9 N		Signatue and Seal of
			1		C - Y = 435,246.0 N		Professional Surveyor:
		Ll.T.P.	1		D-Y= 432,604.9 N		((23786))
	l l	B.H.L.	430' 430'		E-Y= 429,963.8 N		
		B.H.L.	430'		F-Y= 440,518.7 N		
		J A A	E		G-Y= 437,879.5 N	, X = 666,490.2 E	
	SEC. 32	220 330	SEC.	33	H-Y= 435,237.8 N	, X = 666,506.6 E	MARK DILLON HARP 23786
		၂ ပိုပို			I - Y = 432,596.8 N	, X = 666,523.5 E	MARK DILLON HARP 23786
				I	J-Y= 429,955.7 N	, X = 666,540.4 E	Certificate Number AW 2018010214

RWP 7/8/2020

Intent X As Drilled		
API # 30-015-46719		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 17 TWR	Well Number 128H

Kick Off Point (KOP)

UL A	Section 20	Township 24S	Range 31E	Lot	Feet 25	From N/S NORTH	Feet 785	From E/W EAST	County EDDY
Latitu 32.2	^{de} 210015				Longitude -103.793	833			NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	20	24S	31E		330	NORTH	430	EAST	EDDY
Latitu 32.2	^{de} 209178	5			Longitude -103.792	684			NAD 83

Last Take Point (LTP)

UL P	Section 29	Township 24S	Range 31E	Lot	Feet 330	From N/S SOUTH	Feet 430	From E/W EAST	County EDDY
Latitude					Longitud	de		NAD	
32.181954				-103.	792646		83		

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

Is this well an infill well?

Υ		

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

API #
Operator Name:
XTO PERMIAN OPERATING, LLC
Property Name:
Property Name:
POKER LAKE UNIT 17 TWR
127H

Poker Lake Unit 17 TWR 128H Projected TD: 22943' MD / 12583' TVD SHL: 25' FNL & 785' FEL , Section 20, T245, R31E BHL: 220' FSL & 430' FEL , Section 29, T245, R31E Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 11-3/4" casing @ 922' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11797' 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 5-1/2" semi-flush 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' - 922'	11-3/4"	54	BTC	J-55	New	1.27	4.96	17.07
9-7/8"	0' - 11797'	7-5/8"	29.7	BTC	HCL-80	New	1.20	2.03	1.95
6-3/4"	0′ – 11697'	5-1/2"	23	Freedom	P-110	New	1.21	1.71	1.93
6-3/4"	11697' - 22943'	5-1/2"	23	TCSF - semi flush	HCP-110	New	1.21	1.80	1.92

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

5-1/2" 23 ppf casing will be run from surface to 11,750' and crossed over to 5-1/2" 23 ppf semi-flush casing from 11,750' to TD.

Request to use 5" BTC Float equipment for the the production casing

WELLHEAD:

<u>Permanent Wellhead – GE RSH Multibowl System</u>

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

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: 280 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:

<u>1st Stage</u>

 Tail: 1070 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: 1290 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 (6,465') 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.

Production Casing:

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Tail: 780 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water) Compressives: 12-hr = 800 psi 24 hr = 1500psi

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 922'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
922' - 11797'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.1-9.3	30-32	NC

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

XTO Energy Inc. Poker Lake Unit 17 TWR 128H Projected TD: 22943' MD / 12583' TVD SHL: 25' FNL & 785' FEL , Section 20, T24S, R31E BHL: 220' FSL & 430' FEL , Section 29, T24S, R31E 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	602'	Water
Top of Salt	972'	Water
Base of Salt	4102'	Water
Delaware	4322'	Water
Bone Spring	8172'	Water
1st Bone Spring Ss	8932'	Water/Oil/Gas
2nd Bone Spring Ss	9952'	Water/Oil/Gas
3rd Bone Spring Ss	11122'	Water/Oil/Gas
Wolfcamp	11522'	Water/Oil/Gas
Wolfcamp A	11742'	Water/Oil/Gas
Wolfcamp D	12502'	Water/Oil/Gas
Target/Land Curve	12583'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 11-3/4" casing @ 922' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11797' 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 5-1/2" semi-flush 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' – 922'	11-3/4"	54	BTC	J-55	New	1.27	4.96	17.07
9-7-8"	0' – 11797'	7-5/8"	29.7	BTC	HCL-80	New	1.20	2.03	1.95
6-3/4"	0' – 11697'	5-1/2"	23	Freedom	P-110	New	1.21	1.71	1.93
6-3/4"	11697' - 22943'	5-1/2"	23	TCSF - semi flush	HCP-110	New	1.21	1.80	1.92

 \cdot 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

- 5-1/2" 23 ppf casing will be run from surface to 11,750 and crossed over to 5-1/2" 23 ppf semi-flush casing from 11,750 to TD.
 Request to use 5" BTC Float equipment

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.
 - \cdot 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: 11-3/4", 54 New J-55, BTC casing to be set at +/- 922'

Lead: 280 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
 12-hr =
 900 psi
 24 hr = 1500 psi

Intermediate Casing: 7-5/8", 29.7 New HCL-80, BTC casing to be set at +/- 11797" 1st Stage

 Tail:
 1070 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 (6465')
 24 hr = 1150psi

2nd Stage

 Tail: 1290 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
 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 (6,465') 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.

Production Casing: 5-1/2", 23 New HCP-110, TCSF - semi flush casing to be set at +/- 22943' Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 780 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)Compressives12-hr =800 psi24 hr = 1500 psiTOC: 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 10M 3-Ram BOP. MASP should not exceed 5738 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", 10M bradenhead and flange, the BOP test will be limited to 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M 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 GE 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' - 922'	14-3/4"	FW / Native			NC	
922' - 11797'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.1-9.3	30-32	NC	
11797' to 22943'	6-3/4"	Cut Brine / WBM / OBM	12.5-13.5	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 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 8506 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.

11797 to 22943 6-3/4"	Cut Brine / 12.5-13.5 WBM / OBM	5 32-36	NC	
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CACTUS WELLHEAD L

30" x 11-3/4" x 7-5/8" x 5-1/2" MBU-3T-SF SOW V With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-S And 7-5/8" & 5-1/2" Fluted Mandrel Casing

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

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		-
DRAWN	DLE	09DEC19
APPRV		
DRAWING NO	o. ODE000	3261
	DRAWN APPRV	XTO ENERGY IN POKER LAKE, N DRAWN DLE





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	Annular	5M	Upper 3.5"-5.5" VBR	10M		
	4.500"			Lower 3.5"-5.5" VBR	10M		
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M		
	4.500"			Lower 3.5"-5.5" VBR	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 Onshore O&G Order No. 2 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

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out 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% 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



XTO Energy

Eddy County, NM (NAD-27) Poker Lake Unit 17 TWR #128H

OH

Plan: PERMITv2

Standard Planning Report

02 June, 2020



District I

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 <u>District III</u>

 811 S. First St., Artesia, NM 88210

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 <u>District III</u>

 1000 Rio Brazos Road, Aztec, NM 87410

 Phone: (505) 334-6178 Fax: (505) 334-6170

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number 30-015-	r		² Pool Code	2		³ Pool Na	me			
⁴ Property C	Code				⁵ Property	Name			6	Well Number	
					POKER LAKE U					128H	
⁷ OGRID N	No.		⁸ Operator Name							⁹ Elevation	
373075	5	XTO PERMIAN OPERATING, LLC.								3,522'	
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
А	20	24 S	31 E		25	NORTH	785	EAS	ST	EDDY	
		•	¹¹ Bo	ttom Hol	e Location I	f Different Fror	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
Р	29	24 S	31 E	1 E 220 SOUTH 430 EAST EDD							
¹² Dedicated Acres	¹³ Joint o	r Infill ¹	¹⁴ Consolidation	Code ¹⁵ Or	der No.						

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

¹⁶ 3 2 SEC. 17 0.55				
	S.H.L. SEC. 16	SHL (NAD83 NME)	LTP (NAD83 NME)	¹⁷ OPERATOR CERTIFICATION
	1.	Y = 440,556.1	Y = 430,349.8	I hereby certify that the information contained herein is true and complete
F V	A 785'	X = 708,195.0	X = 708,613.5	to the best of my knowledge and belief, and that this organization either
GRID AZ.=130'18'07"	+ 430'	LAT. = 32.210015 °N	LAT. = 32.181954 °N	owns a working interest or unleased mineral interest in the land including
HORIZ. DIST.=467.81'	4 '	LONG. = 103.793833 °W	LONG. = 103.792646 °W	
	F.T.P.	FTP (NAD83 NME)	BHL (NAD83 NME)	the proposed bottom hole location or has a right to drill this well at this
		Y = 440,253.5	Y = 430,239.8	location pursuant to a contract with an owner of such a mineral or working
		X = 708,551.8	X = 708,614.2	interest, or to a voluntary pooling agreement or a compulsory pooling
		LAT. = 32.209178 °N	LAT. = 32.181651 °N LONG. = 103.792645 °W	
		LONG. = 103.792684 °W		order heretofore entered by the division.
SEC. 20 G	B SEC. 21		· ·	
T24S R31E		- A - Y = 440,586.4 N ,	X = 708,979.7 E	
330'		B-Y= 437,947.7 N ,	X = 708,996.2 E	Signature Date
	1	C-Y= 435,304.7 N , D-Y= 432,663.6 N ,	X = 709,012.3 E X = 709,028.9 E	
		E-Y= 432,003.0 N ,	X = 709,028.9 E X = 709,045.5 E	
┢╴╴╶╎╴╴╴╶┼╴╴╴╶╎╴╺┩╺┨╺		F-Y= 440,577.6 N ,	X = 707,657.5 E	Printed Name
		G-Y= 437,938.4 N ,	X = 707,674.2 E	
	l l	H-Y= 435,296.6 N ,	X = 707,690.8 E	
		I-Y= 432,655.5 N	X = 707,707.7 E	E-mail Address
		J-Y= 430,014.3 N ,	X = 707,724.7 E	
	1	SHL (NAD27 NME)	LTP (NAD27 NME)	
GRID AZ.=179'38'35" HORIZ. DIST.=10,013.95'		Y = 440,497.2	Y = 430,291.1	18SURVEYOR CERTIFICATION
HORIZ. DIST.=10,013.95		X = 667,011.0	X = 667,429.1	I hereby certify that the well location shown on this
'		LAT. = 32.209891 °N	LAT. = 32.181830 °N	
	I	LONG. = 103.793349 °W	LONG. = 103.792163 °W	plat was plotted from field notes of actual surveys
		FTP (NAD27 NME)	BHL (NAD27 NME)	made by me or under my supervision, and that the
		Y = 440,194.6	Y = 430,181.1	
SEC. 29	D SEC. 28	X = 667,367.8	X = 667,429.8	same is true and correct to the best of my belief.
T24S R31E	T	LAT. = 32.209054 °N	LAT. = 32.181527 °N	
	I I	LONG. = 103.792200 °W	LONG. = 103.792162 °W	03-11-2020
	1	CORNER COORDINA	ATES (NAD27 NME)	03-11-2020 Date of Survey Signatue and Seal of
		A-Y= 440,527.5 N ,	X = 667,795.7 E	Date of Survey Signatue and Seal of
 − − ; − − − ; − ; − ; − ; + −	$\frac{1}{1}$ $\frac{1}{1}$	B-Y= 437,888.9 N ,	X = 667,812.2 E	Signatue and Seal of Professional Surveyor:
		C-Y= 435,246.0 N ,	X = 667,828.1 E	(23786)
LI.T.P.		D-Y= 432,604.9 N ,	X = 667,844.7 E	
B.H.L	430' 430'	E-Y= 429,963.8 N ,	X = 667,861.2 E	
	F 430	F-Y= 440,518.7 N ,	X = 666,473.5 E 🗖	
		G-Y= 437,879.5 N ,	X = 666,490.2 E	
SEC. 32	SEC. 33	H-Y= 435,237.8 N ,	X = 666,506.6 E	SCONAL SUR
		I-Y= 432,596.8 N ,	X = 666,523.5 E	MARK DILLON HARP 23786
		J-Y= 429,955.7 N ,	X = 666,540.4 E	Certificate Number AW 2018010214



Database: Company: Project: Site: Well: Wellbore: Design:	XTO Eddy Poke #128 OH	5000.1.13 Si Energy County, NM (r Lake Unit 17 H MITv2	(NAD-27))	TVD Ref MD Refe North Re			RKB = 30' @ 3 Grid	RKB = 30' @ 3552.00usft RKB = 30' @ 3552.00usft		
Project	Eddy (County, NM (I	NAD-27)								
Map System: Geo Datum: Map Zone:	NAD 19	te Plane 1927 27 (NADCON exico East 30	I CONUS)	tion)	System D	atum:	N	lean Sea Leve	l		
Site	Poker	Lake Unit 17	TWR								
Site Position: From: Position Unce	Ma rtainty:	•	East	hing: ing: Radius:	,	828.50 usft 224.90 usft 13-3/16 "	Latitude: Longitude: Grid Conve			32.2108531 -103.8055843 0.28 °	
Well	#128H										
Well Position	+N/-S +E/-W	-331.3 3,786.1		orthing: asting:		440,497.20 667,011.00		titude: ongitude:		32.2098907 -103.7933487	
Position Unce	rtainty	0.0	00 usft 🛛 🛛	ellhead Elev	vation:	0.00	usft Gr	ound Level:		3,522.00 usft	
Wellbore	ОН										
Magnetics	Мо	del Name	Samp	le Date	Declina (°)		-	Angle (°)		trength IT)	
		IGRF2015		06/19/20		6.73		59.98		47,597	
Design	PERM	IITv2									
Audit Notes:											
Version:			Pha	se:	PLAN	Ti	e On Depth:		0.00		
Vertical Section	on:	De	epth From (1 (usft)	rvd)	+N/-S (usft)	(u	E/-W Isft)		ection (°) 79.65		
			0.00		0.00	0	.00	1	9.05		
Plan Sections											
Measured Depth I (usft)	nclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00 7,135.00 7,385.00 11,996.92 12,929.27 22,832.96 22,942.96	0.00 0.00 5.00 5.00 90.00 90.00 90.00	0.00 0.01 49.31 49.31 179.65 179.65 179.65	0.00 7,135.00 7,384.68 11,979.06 12,583.00 12,583.00 12,583.00	0.00 0.00 7.11 269.19 -302.60 -10,206.10 -10,316.10	0.00 0.00 8.27 313.03 356.80 417.44 418.11	0.00 0.00 2.00 0.00 10.00 0.00 0.00	0.00 0.00 2.00 0.00 9.12 0.00 0.00	0 0.00 0 0.00 0 0.00 2 13.98 0 0.00	0.00	PLU-17-TWR #128 PLU-17-TWR #128 PLU-17-TWR #128	



Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well#128H RKB = 30' @ 3552.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3552.00usft
Site: Well:	Poker Lake Unit 17 TWR #128H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore:	OH	•	
Design:	PERMITv2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VR #128: SHLv								
100.00 200.00	0.00 0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
300.00 400.00	0.00 0.00	0.00 0.00	300.00 400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
500.00 600.00	0.00 0.00	0.00 0.00	500.00 600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
602.00	0.00	0.00	602.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler 672.00	0.00	0.00	672.00	0.00	0.00	0.00	0.00	0.00	0.00
Magenta D		0.00	072.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00 972.00	0.00 0.00	0.00 0.00	900.00 972.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Top Salt									
1,000.00 1,100.00	0.00 0.00	0.00 0.00	1,000.00 1,100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00 1,500.00	0.00 0.00	0.00 0.00	1,400.00 1,500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00 1,900.00	0.00 0.00	0.00 0.00	1,800.00 1,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00 2,400.00	0.00 0.00	0.00 0.00	2,300.00 2,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00 0.00	2,700.00 2,800.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00
2,800.00 2,900.00	0.00 0.00	0.00	2,800.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00 3,400.00	0.00 0.00	0.00 0.00	3,300.00 3,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00 3,900.00	0.00 0.00	0.00 0.00	3,800.00 3,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,102.00 Base Salt	0.00	0.00	4,102.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,322.00	0.00	0.00	4,322.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: Company: Project:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27)	Local Co-ordinate Reference: TVD Reference: MD Reference:	Well #128H RKB = 30' @ 3552.00usft RKB = 30' @ 3552.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMITv2		

Delaware 4,400.00 4,500.00 4,600.00 4,700.00 4,800.00 4,900.00 5,000.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4,400.00 4,500.00 4,600.00	0.00 0.00	0.00	0.05			
4,500.00 4,600.00 4,700.00 4,800.00 4,900.00 5,000.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4,500.00		0.00				
4,600.00 4,700.00 4,800.00 4,900.00 5,000.00	0.00 0.00 0.00	0.00 0.00	,	0 00		0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	4,700.00 4,800.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
- ,		0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00 5,200.00 5,212.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,000.00 5,100.00 5,200.00 5,212.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Cherry Cany 5,300.00	/on 0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00 5,500.00 5,600.00 5,700.00 5,800.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	5,400.00 5,500.00 5,600.00 5,700.00 5,800.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
5,900.00 6,000.00 6,100.00 6,200.00 6,300.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,900.00 6,000.00 6,100.00 6,200.00 6,300.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,400.00 6,500.00 6,512.00	0.00 0.00 0.00	0.00 0.00 0.00	6,400.00 6,500.00 6,512.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Brushy Cany 6,600.00	yon 0.00	0.00	6.600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00 6,900.00 7,000.00 7,100.00 7,135.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.01	6,800.00 6,900.00 7,000.00 7,100.00 7,135.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,200.00 7,300.00 7,385.00 7,400.00 7,500.00	1.30 3.30 5.00 5.00 5.00	49.31 49.31 49.31 49.31 49.31	7,199.99 7,299.91 7,384.68 7,399.63 7,499.25	0.48 3.10 7.11 7.96 13.64	0.56 3.60 8.27 9.26 15.86	-0.48 -3.08 -7.06 -7.90 -13.55	2.00 2.00 2.00 0.00 0.00	2.00 2.00 2.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,600.00 7,700.00 7,800.00 7,900.00 7,904.29	5.00 5.00 5.00 5.00 5.00	49.31 49.31 49.31 49.31 49.31	7,598.86 7,698.48 7,798.10 7,897.72 7,902.00	19.33 25.01 30.69 36.37 36.62	22.47 29.08 35.69 42.30 42.58	-19.19 -24.83 -30.47 -36.11 -36.36	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Basal Brush	iy Canyon								
8,000.00 8,100.00 8,175.32	5.00 5.00 5.00	49.31 49.31 49.31	7,997.34 8,096.96 8,172.00	42.06 47.74 52.02	48.91 55.51 60.49	-41.76 -47.40 -51.65	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Bone Spring 8,200.00 8,285.74 Avalon Sanc	5.00 5.00	49.31 49.31	8,196.58 8,282.00	53.42 58.29	62.12 67.79	-53.04 -57.88	0.00 0.00	0.00 0.00	0.00 0.00
8,300.00	. 5.00	49.31	8,296.20	59.10	68.73	-58.68	0.00	0.00	0.00



Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well#128H RKB = 30' @ 3552.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3552.00usft
Site: Well:	Poker Lake Unit 17 TWR #128H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore:	OH	ourvey calculation method.	
Design:	PERMITv2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,315.86	5.00	49.31	8,312.00	60.01	69.78	-59.58	0.00	0.00	0.00
Upper Ava									
8,400.00 8,500.00 8,600.00	5.00 5.00 5.00	49.31 49.31 49.31	8,395.82 8,495.44 8,595.06	64.79 70.47 76.15	75.34 81.95 88.55	-64.33 -69.97 -75.61	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,700.00	5.00 5.00 5.00	49.31	8,694.68	81.83	95.16	-81.25	0.00	0.00	0.00
8,717.39 Lower Ava		49.31	8,712.00	82.82	96.31	-82.23	0.00	0.00	0.00
8,800.00 8,900.00 8,938.23	5.00 5.00 5.00	49.31 49.31 49.31	8,794.30 8,893.92 8,932.00	87.52 93.20 95.37	101.77 108.38 110.90	-86.89 -92.54 -94.69	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	pring Lime	40.01	0,002.00	00.07	110.00	04.00	0.00	0.00	0.00
		40.04	0.000.54	00.00	44.4.00	00.40	0.00	0.00	0.00
9,000.00 9,100.00 9,200.00 9,249.41	5.00 5.00 5.00 5.00	49.31 49.31 49.31 49.31	8,993.54 9,093.16 9,192.78 9,242.00	98.88 104.57 110.25 113.06	114.99 121.59 128.20 131.47	-98.18 -103.82 -109.46 -112.25	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
1st Bone S									
9,300.00 9,400.00 9,500.00	5.00 5.00 5.00	49.31 49.31 49.31	9,292.40 9,392.02 9,491.63	115.93 121.61 127.30	134.81 141.42 148.03	-115.11 -120.75 -126.39	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,600.00 9,640.90	5.00 5.00 Spring Lime	49.31 49.31	9,591.25 9,632.00	132.98 135.30	154.64 157.34	-132.03 -134.34	0.00 0.00	0.00 0.00	0.00 0.00
9,700.00	5.00	49.31	9,690.87	138.66	161.24	-137.67	0.00	0.00	0.00
9.800.00	5.00	49.31	9,790.49	144.34	167.85	-143.32	0.00	0.00	0.00
9,900.00 9,962.12	5.00 5.00	49.31 49.31 49.31	9,790.49 9,890.11 9,952.00	150.03 153.56	174.46 178.56	-143.32 -148.96 -152.46	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
2nd Bone		10.01	0 000 70	455.34	404.07	454.00	0.00	0.00	0.00
10,000.00 10,100.00	5.00 5.00	49.31 49.31	9,989.73 10,089.35	155.71 161.39	181.07 187.68	-154.60 -160.24	0.00 0.00	0.00 0.00	0.00 0.00
10,200.00 10,300.00 10,353.61	5.00 5.00 5.00	49.31 49.31 49.31	10,188.97 10,288.59 10,342.00	167.07 172.76 175.80	194.28 200.89 204.43	-165.88 -171.53 -174.55	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3rd Bone S	Spring Lm								
10,400.00 10,500.00	5.00 5.00	49.31 49.31	10,388.21 10,487.83	178.44 184.12	207.50 214.11	-177.17 -182.81	0.00 0.00	0.00 0.00	0.00 0.00
10,600.00 10,700.00 10,800.00 10,900.00 11,000.00	5.00 5.00 5.00 5.00 5.00 5.00	49.31 49.31 49.31 49.31 49.31	10,587.45 10,687.07 10,786.69 10,886.31 10,985.93	189.81 195.49 201.17 206.85 212.54	220.72 227.32 233.93 240.54 247.15	-188.45 -194.10 -199.74 -205.38 -211.02	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11,100.00 11,136.59	5.00 5.00	49.31 49.31	11,085.55 11,122.00	218.22 220.30	253.76 256.17	-216.66 -218.73	0.00 0.00	0.00 0.00	0.00 0.00
3rd Bone S			11 10T 1T	000 00	000.00	000 0 1		0.05	
11,200.00 11,300.00 11,400.00	5.00 5.00 5.00	49.31 49.31 49.31	11,185.17 11,284.79 11,384.41	223.90 229.58 235.27	260.36 266.97 273.58	-222.31 -227.95 -233.59	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,457.82 Red Hills S	5.00	49.31	11,442.00	238.55	277.40	-236.85	0.00	0.00	0.00
11,500.00 11,538.12 Wolfcamp	5.00 5.00	49.31 49.31	11,484.02 11,522.00	240.95 243.12	280.19 282.71	-239.23 -241.38	0.00 0.00	0.00 0.00	0.00 0.00
11,600.00	5.00	49.31	11,583.64	246.63	286.80	-244.88	0.00	0.00	0.00



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #128H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3552.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3552.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMITv2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,623.45	5.00	49.31	11,607.00	247.96	288.35	-246.20	0.00	0.00	0.00
Wolfcamp	Х								
11,688.69	5.00	49.31	11,672.00	251.67	292.66	-249.88	0.00	0.00	0.00
Wolfcamp			,						
11,700.00	5.00	49.31	11,683.26	252.31	293.41	-250.52	0.00	0.00	0.00
11,758.96	5.00	49.31	11,742.00	255.67	297.30	-253.84	0.00	0.00	0.00
Wolfcamp 11.800.00		40.04	44 700 00	050.00	200.01	050.40	0.00	0.00	0.00
11,800.00	5.00 5.00	49.31 49.31	11,782.88 11,872.00	258.00 263.08	300.01 305.92	-256.16 -261.21	0.00 0.00	0.00 0.00	0.00 0.00
Wolfcamp		10.01	11,012.00	200.00	000.02	201.21	0.00	0.00	0.00
11,900.00	5.00	49.31	11,882.50	263.68	306.62	-261.80	0.00	0.00	0.00
11,996.92	5.00	49.31	11,979.06	269.19	313.03	-267.27	0.00	0.00	0.00
12,000.00	4.81	52.11	11,982.12	269.35	313.23	-267.44	10.00	-6.27	91.14
12,050.00	4.34	118.20	12,031.99	269.75	316.55	-267.81	10.00	-0.93	132.18
12,100.00	8.03	151.45	12,081.71	265.78	319.89	-263.82	10.00	7.38	66.50
12,130.71	10.83	159.25	12,112.00	261.20	321.94	-259.23	10.00	9.11	25.41
Wolfcamp			10 10	AF = 15		AFT			
12,150.00	12.65	162.37	12,130.89 12,179.16	257.49 244.93	323.22	-255.51	10.00 10.00	9.45 9.66	16.17 10.11
12,200.00 12.250.00	17.48 22.38	167.43 170.33	12,179.16	244.93 228.21	326.52 329.75	-242.93 -226.19	10.00	9.66 9.80	5.81
12,200.00	27.32	172.23	12,271.50	207.44	332.91	-205.40	10.00	9.87	3.80
12,300.56	27.38	172.25	12,272.00	207.19	332.94	-205.15	10.00	9.89	3.15
Wolfcamp		172.20	12,212.00	207.15	002.04	-200.10	10.00	0.00	0.10
12,350.00	32.28	173.59	12,314.88	182.79	335.95	-180.73	10.00	9.91	2.71
12,400.00	37.24	174.62	12,355.95	154.44	338.86	-152.37	10.00	9.93	2.06
12,450.00	42.21	175.43	12,394.39	122.61	341.62	-120.53	10.00	9.95	1.63
12,500.00	47.19	176.11	12,429.92	87.55	344.20	-85.45	10.00	9.96	1.35
12,550.00	52.17	176.68	12,462.26	49.51	346.59	-47.40	10.00	9.96	1.15
12,600.00	57.16	177.18	12,491.17	8.80	348.77	-6.67	10.00	9.97	1.00
12,620.55 Wolfcamp	59.20	177.37	12,502.00	-8.64	349.60	10.78	10.00	9.97	0.92
12,650.00	62.14	177.63	12,516.43	-34.29	350.72	36.43	10.00	9.97	0.88
12,700.00	67.13	178.04	12,537.84	-79.42	352.42	81.58	10.00	9.97	0.82
12,750.00	72.11	178.42	12,555.25	-126.26	353.87	128.42	10.00	9.97	0.76
12,800.00	77.10	178.77	12,568.51	-174.43	355.05	176.60	10.00	9.98	0.72
12,850.00	82.09	179.12	12,577.54	-223.59	355.95	225.76	10.00	9.98	0.69
12,900.00	87.08	179.45	12,582.25	-273.35	356.57	275.52	10.00	9.98	0.67
12,929.27 PLU-17-TV	90.00 VR #128: FTP/	179.65	12,583.00	-302.60	356.80	304.77	10.00	9.98	0.67
			40 500 00	070.00	057.00	075 54	0.00	0.00	0.00
13,000.00 13,100.00	90.00 90.00	179.65 179.65	12,583.00 12,583.00	-373.33 -473.33	357.23 357.85	375.51 475.51	0.00 0.00	0.00 0.00	0.00 0.00
13,100.00	90.00 90.00	179.65	12,583.00	-473.33 -573.33	357.85 358.46	475.51 575.51	0.00	0.00	0.00
13,300.00	90.00	179.65	12,583.00	-673.33	359.07	675.51	0.00	0.00	0.00
13,400.00	90.00	179.65	12,583.00	-773.32	359.68	775.51	0.00	0.00	0.00
13,500.00	90.00	179.65	12,583.00	-873.32	360.29	875.51	0.00	0.00	0.00
13,600.00	90.00	179.65	12,583.00	-973.32	360.91	975.51	0.00	0.00	0.00
13,700.00	90.00	179.65	12,583.00	-1,073.32	361.52	1,075.51	0.00	0.00	0.00
13,800.00	90.00	179.65	12,583.00	-1,173.32	362.13	1,175.51	0.00	0.00	0.00
13,900.00	90.00	179.65	12,583.00	-1,273.31	362.74	1,275.51	0.00	0.00	0.00
14,000.00	90.00	179.65	12,583.00	-1,373.31	363.36	1,375.51	0.00	0.00	0.00
14,100.00 14,200.00	90.00 90.00	179.65 179.65	12,583.00 12,583.00	-1,473.31 -1,573.31	363.97 364.58	1,475.51 1,575.51	0.00 0.00	0.00 0.00	0.00 0.00
14,200.00	90.00	179.65	12,583.00	-1,673.31	365.19	1,675.51	0.00	0.00	0.00



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well#128H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3552.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3552.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMITv2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,400.00	90.00	179.65	12,583.00	-1,773.31	365.81	1,775.51	0.00	0.00	0.00
14,500.00 14,600.00 14,700.00 14,800.00 14,900.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-1,873.30 -1,973.30 -2,073.30 -2,173.30 -2,273.30	366.42 367.03 367.64 368.25 368.87	1,875.51 1,975.51 2,075.51 2,175.51 2,275.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,000.00 15,100.00 15,200.00 15,300.00 15,400.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-2,373.29 -2,473.29 -2,573.29 -2,673.29 -2,773.29	369.48 370.09 370.70 371.32 371.93	2,375.51 2,475.51 2,575.51 2,675.51 2,775.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,500.00 15,600.00 15,700.00 15,800.00 15,900.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-2,873.28 -2,973.28 -3,073.28 -3,173.28 -3,273.28	372.54 373.15 373.76 374.38 374.99	2,875.51 2,975.51 3,075.51 3,175.51 3,275.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,000.00 16,100.00 16,200.00 16,300.00 16,400.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-3,373.28 -3,473.27 -3,573.27 -3,673.27 -3,773.27	375.60 376.21 376.83 377.44 378.05	3,375.51 3,475.51 3,575.51 3,675.51 3,775.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,500.00 16,600.00 16,700.00 16,800.00 16,900.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-3,873.27 -3,973.26 -4,073.26 -4,173.26 -4,273.26	378.66 379.28 379.89 380.50 381.11	3,875.51 3,975.51 4,075.51 4,175.51 4,275.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,000.00 17,100.00 17,200.00 17,300.00 17,400.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-4,373.26 -4,473.25 -4,573.25 -4,673.25 -4,773.25	381.72 382.34 382.95 383.56 384.17	4,375.51 4,475.51 4,575.51 4,675.51 4,775.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,500.00 17,600.00 17,700.00 17,800.00 17,900.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-4,873.25 -4,973.25 -5,073.24 -5,173.24 -5,273.24	384.79 385.40 386.01 386.62 387.24	4,875.51 4,975.51 5,075.51 5,175.51 5,275.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
18,000.00 18,100.00 18,200.00 18,300.00 18,400.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-5,373.24 -5,473.24 -5,573.23 -5,673.23 -5,773.23	387.85 388.46 389.07 389.68 390.30	5,375.51 5,475.51 5,575.51 5,675.51 5,775.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
18,500.00 18,600.00 18,700.00 18,800.00 18,900.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-5,873.23 -5,973.23 -6,073.22 -6,173.22 -6,273.22	390.91 391.52 392.13 392.75 393.36	5,875.51 5,975.51 6,075.51 6,175.51 6,275.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-6,373.22 -6,473.22 -6,573.22 -6,673.21 -6,773.21	393.97 394.58 395.19 395.81 396.42	6,375.51 6,475.51 6,575.51 6,675.51 6,775.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,500.00 19,600.00 19,700.00	90.00 90.00 90.00	179.65 179.65 179.65	12,583.00 12,583.00 12,583.00	-6,873.21 -6,973.21 -7,073.21	397.03 397.64 398.26	6,875.51 6,975.51 7,075.51	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference:	Well #128H
Project:	Eddy County, NM (NAD-27)	TVD Reference: MD Reference:	RKB = 30' @ 3552.00usft RKB = 30' @ 3552.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	•	
Design:	PERMITv2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,800.00	90.00	179.65	12,583.00	-7,173.20	398.87	7,175.51	0.00	0.00	0.00
19,900.00	90.00	179.65	12,583.00	-7,273.20	399.48	7,275.51	0.00	0.00	0.00
20,000.00	90.00	179.65	12,583.00	-7,373.20	400.09	7,375.51	0.00	0.00	0.00
20,100.00	90.00	179.65	12,583.00	-7,473.20	400.71	7,475.51	0.00	0.00	0.00
20,200.00	90.00	179.65	12,583.00	-7,573.20	401.32	7,575.51	0.00	0.00	0.00
20,300.00	90.00	179.65	12,583.00	-7,673.19	401.93	7,675.51	0.00	0.00	0.00
20,400.00	90.00	179.65	12,583.00	-7,773.19	402.54	7,775.51	0.00	0.00	0.00
20,500.00	90.00	179.65	12,583.00	-7,873.19	403.15	7,875.51	0.00	0.00	0.00
20,600.00	90.00	179.65	12,583.00	-7,973.19	403.77	7,975.51	0.00	0.00	0.00
20,700.00	90.00	179.65	12,583.00	-8,073.19	404.38	8,075.51	0.00	0.00	0.00
20,800.00	90.00	179.65	12,583.00	-8,173.19	404.99	8,175.51	0.00	0.00	0.00
20,900.00	90.00	179.65	12,583.00	-8,273.18	405.60	8,275.51	0.00	0.00	0.00
21,000.00	90.00	179.65	12,583.00	-8,373.18	406.22	8,375.51	0.00	0.00	0.00
21,100.00	90.00	179.65	12,583.00	-8,473.18	406.83	8,475.51	0.00	0.00	0.00
21,200.00	90.00	179.65	12,583.00	-8,573.18	407.44	8,575.51	0.00	0.00	0.00
21,300.00	90.00	179.65	12,583.00	-8,673.18	408.05	8,675.51	0.00	0.00	0.00
21,400.00	90.00	179.65	12,583.00	-8,773.17	408.67	8,775.51	0.00	0.00	0.00
21,500.00 21,600.00 21,700.00 21,800.00 21,900.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-8,873.17 -8,973.17 -9,073.17 -9,173.17 -9,273.16	409.28 409.89 410.50 411.11 411.73	8,875.51 8,975.51 9,075.51 9,175.51 9,275.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,000.00 22,100.00 22,200.00 22,300.00 22,400.00	90.00 90.00 90.00 90.00 90.00	179.65 179.65 179.65 179.65 179.65 179.65	12,583.00 12,583.00 12,583.00 12,583.00 12,583.00	-9,373.16 -9,473.16 -9,573.16 -9,673.16 -9,773.16	412.34 412.95 413.56 414.18 414.79	9,375.51 9,475.51 9,575.51 9,675.51 9,775.51	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,500.00	90.00	179.65	12,583.00	-9,873.15	415.40	9,875.51	0.00	0.00	0.00
22,600.00	90.00	179.65	12,583.00	-9,973.15	416.01	9,975.51	0.00	0.00	0.00
22,700.00	90.00	179.65	12,583.00	-10,073.15	416.62	10,075.51	0.00	0.00	0.00
22,800.00	90.00	179.65	12,583.00	-10,173.15	417.24	10,175.51	0.00	0.00	0.00
22,832.96	90.00	179.65	12,583.00	-10,206.10	417.44	10,208.46	0.00	0.00	0.00
-	VR #128: LTPv			10.075.15		10.055			
22,900.00 22,942.96	90.00 90.00 VR #128: PBHL	179.65 179.65	12,583.00 12,583.00	-10,273.15 -10,316.10	417.85 418.11	10,275.51 10,318.47	0.00 0.00	0.00 0.00	0.00 0.00



Database:EDM 5000.1.13 Single User DbCompany:XTO EnergyProject:Eddy County, NM (NAD-27)Site:Poker Lake Unit 17 TWRVell:#128HVellbore:OHDesign:PERMITv2				TVD Reference: MD Reference: North Reference:			Well#128H RKB = 30' @ 3552.00usft RKB = 30' @ 3552.00usft Grid Minimum Curvature		
Design Targets									
Target Name - hit/miss target - Shape	Dip Angl (°)	e Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU-17-TWR #128: 5 - plan hits target - Point		0.00	0.00	0.00	0.00	440,497.20	667,011	.00 32.2098907	-103.7933487
PLU-17-TWR #128: I - plan misses tar - Point			,	-10,206.10 sft MD (1258	418.10 3.00 TVD, - ²	430,291.10 10206.10 N, 417.44	667,429 4 E)	.10 32.1818296	-103.7921630
PLU-17-TWR #128: I - plan hits target - Point		0.00	12,583.00	-302.60	356.80	440,194.60	667,367	.80 32.2090540	-103.7922001
PLU-17-TWR #128: I - plan misses tar - Point			,	-10,316.10 sft MD (1258	418.80 3.00 TVD, - ²	430,181.10 10316.10 N, 418.1 ²	667,429 1 E)	.80 32.1815272	-103.7921626

Formations

Measured	Vertical				Dip
Depth (usft)	Depth (usft)	Name	Lithology	Dip (°)	Direction (°)
602.00	602.00	Rustler			
672.00	672.00	Magenta Dolomite			
972.00	972.00	Top Salt			
4,102.00	4,102.00	Base Salt			
4,322.00	4,322.00	Delaware			
5,212.00	5,212.00	Cherry Canyon			
6,512.00	6,512.00	Brushy Canyon			
7,904.29	7,902.00	Basal Brushy Canyon			
8,175.32	8,172.00	Bone Spring Lime			
8,285.74	8,282.00	Avalon Sand			
8,315.86	8,312.00	Upper Avalon Shale			
8,717.39	8,712.00	Lower Avalon Shale			
8,938.23	8,932.00	1st Bone Spring Lime			
9,249.41	9,242.00	1st Bone Spring Ss			
9,640.90	9,632.00	2nd Bone Spring Lime			
9,962.12	9,952.00	2nd Bone Spring Ss			
10,353.61	10,342.00	3rd Bone Spring Lm			
11,136.59	11,122.00	3rd Bone Spring Ss			
11,457.82	11,442.00	Red Hills SS			
11,538.12	11,522.00	Wolfcamp			
11,623.45	11,607.00	Wolfcamp X			
11,688.69	11,672.00	Wolfcamp Y			
11,758.96	11,742.00	Wolfcamp A			
11,889.46	11,872.00	Wolfcamp A Lower			
12,130.71	12,112.00	Wolfcamp B			
12,300.56	12,272.00	Wolfcamp C			
12,620.55	12,502.00	Wolfcamp D			

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	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
	during the evaluation period. The p	ressure shall not decrease below the allest OD drill pipe to be used in well	
	from one wellhead to another withi when the integrity of a pressure se	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.