Form 3160-5 (June 2015) DF B SUNDRY	UNITED STATES EPARTMENT OF THE II UREAU OF LAND MANA NOTICES AND REPO	Rec S NTERIOR GEMENT RTS ON WE	'd 11/20/2020 - ELLS	NMOCD	FORM OMB N Expires: Ja 5. Lease Serial No. NMLC062140A	APPRO O. 1004 anuary :	OVED 4-0137 31, 2018
Do not use th abandoned we	6. If Indian, Allottee or Tribe Name						
SUBMIT IN	TRIPLICATE - Other inst	tructions on	oage 2		7. If Unit or CA/Agree 891000303X	ement,	Name and/or No.
1. Type of Well □ Otl	her				8. Well Name and No. POKER LAKE UN	IT 29	BS 705H
2. Name of Operator XTO PERMIAN OPERATING	9. API Well No. 30-015-46174-0)0-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 PURPLE SAGE	Explora	Itory Area FCAMP (GAS)
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)			11. County or Parish,	State	
Sec 29 T25S R31E SWNE 23 32.102211 N Lat, 103.798317	10FNL 2040FEL ' W Lon				EDDY COUNTY	۲, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	ſE NATURE O	F NOTICE,	REPORT, OR OTH	HER I	DATA
TYPE OF SUBMISSION			TYPE OF	F ACTION			
Notice of Intent	Acidize	🗖 Deep	ven	Product	tion (Start/Resume)		Water Shut-Off
	□ Alter Casing	🗖 Hyd	aulic Fracturing	Reclam	ation		Vell Integrity
Subsequent Report	Casing Repair	🗖 New	Construction	🗖 Recom	plete	\mathbf{X}	Other
Final Abandonment Notice	□ Change Plans	🗖 Plug	and Abandon	Tempor	rarily Abandon	PD	linge to Original A
	Convert to Injection	🗖 Plug	Back	□ Water I	Disposal		
13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involvec testing has been completed. Final Al determined that the site is ready for f	eration: Clearly state all pertine ally or recomplete horizontally, rk will be performed or provide I operations. If the operation re- bandonment Notices must be fil inal inspection.	nt details, includi give subsurface the Bond No. on sults in a multiple ed only after all i	ng estimated startin ocations and measu file with BLM/BIA completion or reco equirements, includ	ng date of any p need and true vo A. Required su completion in a ling reclamatio	proposed work and appro ertical depths of all pertin bsequent reports must be new interval, a Form 316 n, have been completed a	x1mate lent mar filed w 0-4 mu and the	duration thereof. rkers and zones. 'ithin 30 days st be filed once operator has
XTO Permian Operating, LLC	, requests permission to r	nake the follo	wing changes to	the original	I APD:		
Change the formation from Co	orral Canyon Bone Spring	South (Oil) to	Purple Sage W	/olfcamp (G	as).		
Change BHL from 200'FSL &	2310'FEL in Sec. 5-T26S	-R31E to 200	FSL & 2430'FEI	L in Sec. 32	-T25S-R31E.		
Casing/Cement design per the	e attached drilling program	n.					
XTO also requests the following	ng variances:						
Approval to utilize a spudder r Operations.	rig to pre-set surface casir	ng per the atta	ched Descriptio	on of ed - KMS N	MOCD		
14. I hereby certify that the foregoing is	s true and correct. Electronic Submission # For XTO PERMI nmitted to AFMSS for proce	537804 verifie AN OPERATII essing by PRI	I by the BLM Wel G LLC, sent to t CILLA PEREZ o	II Information he Carlsbad n 11/19/2020	n System (21PP0644SE)		
Name(Printed/Typed) KELLY KA	ARDOS		Title REGUL	ATORY CO	ORDINATOR		
Signature (Electronic S	Submission)		Date 11/17/2	020			
	THIS SPACE FO	DR FEDERA	L OR STATE	OFFICE U	SE		
							Data 11/00/0000
Approved ByJENNIFER_SANCH	EZ		<u>TitlePETROLE</u>	UM ENGIN	EER		Date 11/20/2020
conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condu-	a. Approval of this notice does uitable title to those rights in the act operations thereon.	not warrant or e subject lease	Office Carlsba	d			
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	crime for any pe to any matter wi	son knowingly and thin its jurisdiction.	willfully to m	ake to any department or	agency	of the United
(Instructions on page 2)							

*** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #537804 that would not fit on the form

32. Additional remarks, continued

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.

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

Attachments: C102 Drilling Program Multibowl Diagram 5MBOP / 5MCM Direction Plan Spudder Rig Description of Operations BOP Break Test Procedure Offline Cementing Procedure

Revisions to Operator-Submitted EC Data for Sundry Notice #537804

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMLC062140A	NMLC062140A
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:	BIG SINKS BONE SPRING	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	POKER LAKE UNIT 29 BS 705H Sec 21 T25S R30E Mer NMP SWNE 2310FNL 2040FEL	POKER LAKE UNIT 29 BS 705H Sec 29 T25S R31E SWNE 2310FNL 2

Sec 29 T25S R31E SWNE 2310FNL 2040FEL 32.102211 N Lat, 103.798317 W Lon District I

 1625 N. French Dr., Hobbs, NM 88240

 Phone: (575) 393-6161 Fax: (575) 393-0720

 <u>District II</u>

 811 S. First St., Artesia, NM 88210

 Phone: (575) 748-1283 Fax: (575) 748-9720

 <u>District III</u>

 1000 Rio Brazos Road, Aztec, NM 87410

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

 District IV

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number 30-015 -4	6174		² Pool Code	³ Pool Name						
⁴ Property C	ode		⁵ Property Name							⁶ Well Number	
		POKER LAKE UNIT 29 BS								705H	
⁷ OGRID N	No.				⁸ Operator 1	Name				⁹ Elevation	
373075	;			XTO	O PERMIAN OPI	ERATING, LLC.				3,349'	
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	County	
G	29	25 S	31 E		2,310	NORTH	2,040	EAS	ST	EDDY	
			11 Bo	ttom Hol	e Location If	Different Fror	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	County	
0	32	25 S	31 E		200	SOUTH	2,430	EAS	ST	EDDY	
¹² Dedicated Acres	¹³ Joint of	r Infill ¹⁴ C	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.



Intent As Drilled		
API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longituc	le			NAD

Is this wall the detining wall for the Uprizontal Specing Unit?	

Is this well an infill well?

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Poker Lake Unit 29 BS 705H Projected TD: 19631' MD / 11854' TVD SHL: 2310' FNL & 2040' FEL , Section 29, T255, R31E

BHL: 200' FSL & 2430' FEL , Section 32, T25S, R31E Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 11-3/4" casing @ 1149' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11113' 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 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' - 1149'	11-3/4"	54	BTC	J-55	New	1.24	3.98	13.70
8-3/4"	0' - 4000'	7-5/8"	29.7	Liberty FJ	CYP-110	New	2.17	2.80	1.69
8-3/4"	4000' - 11113'	7-5/8"	29.7	Liberty FJ	HCL-80	New	1.58	1.98	1.92
6-3/4"	0'-11013'	5-1/2"	23	Semi- Premium	P-110	New	1.21	2.25	2.27
6-3/4"	11013' - 19631'	5	18	Semi-Flush	P-110	New	1.16	1.93	8.50

 \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.

 \cdot 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

 \cdot Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

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

WELLHEAD:

Permanent Wellhead – Multibowl System

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

Cement Program

Surface Casing:

Lead: 390 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:

<u>1st Stage</u>

Optional Lead: 370 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water) TOC: Surface

 Tail: 390 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

 TOC: Brushy Canyon (6825')
 24 hr = 1150 psi
 24 hr = 1150 psi

2nd Stage

 Tail: 640 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
 24 hr = 1150 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 (6825') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echometer. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will 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 GE 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: 800 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water) Compressives: 12-hr = 800 psi 24 hr = 1500psi TOC: 300' inside previous shoe

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1149'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1149' - 11113'	8-3/4"	Brine / Cut Brine / Direct Emuslion	8.5-9.7	30-32	NC
11113' to 19631'	6-3/4"	Cut Brine / WBM / OBM	10.8-11.8	32-36	NC

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 control equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

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

XTO Energy Inc. Poker Lake Unit 29 BS 705H Projected TD: 19631' MD / 11854' TVD SHL: 2310' FNL & 2040' FEL , Section 29, T25S, R31E BHL: 200' FSL & 2430' FEL , Section 32, T25S, 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	836'	Water
Top of Salt	1199'	Water
Base of Salt	3935'	Water
Delaware	4149'	Water
Brushy Canyon	6825'	Water/Oil/Gas
Bone Spring	8091'	Water
1st Bone Spring Ss	9088'	Water/Oil/Gas
2nd Bone Spring Ss	9949'	Water/Oil/Gas
3rd Bone Spring Ss	11043'	Water/Oil/Gas
Wolfcamp	11454'	Water/Oil/Gas
Wolfcamp X	11483'	Water/Oil/Gas
Wolfcamp A	11612'	Water/Oil/Gas
Target/Land Curve	11854'	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 @ 1149' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11113' 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 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' – 1149'	11-3/4"	54	BTC	J-55	New	1.24	3.98	13.70
8-3/4"	0' – 4000'	7-5/8"	29.7	Liberty FJ	CYP-110	New	2.17	2.80	1.69
8-3/4"	4000' – 11113'	7-5/8"	29.7	Liberty FJ	HCL-80	New	1.58	1.98	1.92
6-3/4"	0' – 11013'	5-1/2"	23	Semi-Premium	P-110	New	1.21	2.25	2.27
6-3/4"	11013' - 19631'	5	18	Semi-Flush	P-110	New	1.16	1.93	8.50

• 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

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

Wellhead:

Permanent Wellhead – Multibowl System

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

4. Cement Program

Surface Casing: 11-3/4", 54 New J-55, BTC casing to be set at +/- 1149'

Lead: 390 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
        24 hr = 1500 psi
        24 hr = 1500 psi
```

Intermediate Casing: 7-5/8", 29.7 New casing to be set at +/- 11113'

<u>1st Stage</u> Optional Lead: 370 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water) TOC: Surface

 Tail: 390 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 (6825')
 24 hr = 1150psi

2nd Stage

 Tail: 640 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 (6825') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will 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 GE

Production Casing: 5.5 by 5, 18 New casing to be set at +/- 19631' Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 800 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 4358 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 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 according to attached offline cementing supporting documentation.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss
			(ppg)	(sec/qt)	(cc)
0' - 1149'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1149' - 11113'	8-3/4"	Brine / Cut Brine / Direct Emuslion	8.5-9.7	30-32	NC
11113' to 19631'	6-3/4"	Cut Brine / WBM / OBM	10.8-11.8	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 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a

serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6965 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



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.

		ALL DIMENSIO	NS APPROXIMATE
LC		XTO ENERGY II POKER LAKE, N	NC IM
Nollhood System	DRAWN	DLE	09DEC19
	APPRV		
Hangers	DRAWING NO. ODE0003261		







XTO Energy

Eddy County, NM (NAD-27) Poker Lake Unit 29 BS #705H

ОН

Plan: PERMIT

Standard Planning Report

26 September, 2019





Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5 XTO E Eddy 0 Poker #705H OH PERM	5000.1 Single U Energy County, NM (NA Lake Unit 29 B I	ser Db ND-27) S		Local Co- TVD Refer MD Refere North Ref Survey Ca	ordinate Refe rence: ence: erence: alculation Met	rence: hod:	Well #705H RKB=25' @ 33 RKB=25' @ 33 Grid Minimum Curv	874.00usft 874.00usft ature	
Project	Eddy C	ounty, NM (NAI	D-27)							
Map System: Geo Datum: Map Zone:	US State NAD 192 New Mex	e Plane 1927 (E 27 (NADCON Co kico East 3001	xact solution) ONUS)		System Dat	tum:	M	ean Sea Level sing geodetic se	cale factor	
Site	Poker L	ake Unit 29 BS	,							
Site Position: From: Position Uncertainty	Map /:	0.00	North Eastir usft Slot R	ing: ng: ¦adius:	401 667	,284.10 usft ,257.20 usft 13-3/16 "	Latitude: Longitude: Grid Converg	gence:		32.102094 -103.793189 0.29 °
Well	#705H									
Well Position	+N/-S +E/-W	-9.6 -1,440.0	0 usft No 8 usft Ea	orthing: isting:		401,274.50 665,817.20) usft Lat	itude: ngitude:		32.102088 -103.797839
Position Uncertainty	/	0.0	0 usft W	ellhead Elevati	on:	0.00) usft Gro	ound Level:		3,349.00 usft
Wellbore	OH									
Magnetics	Мо	del Name IGRF2015	Sampl	e Date 9/26/2019	Declina (°)	tion 6.80	Dip / (Angle °) 59.89	Field S (I	Strength 1 T) 47,609
Design	PERMI	Т								
Audit Notes:										
Version:			Phas	e: P	LAN	Tie	e On Depth:		0.00	
Vertical Section:		De	epth From (T ^v (usft)	/D)	+N/-S (usft)	+E (u	E/-W Isft)	Di	irection (°)	
			0.00		0.00	0	.00	ŕ	179.82	
Plan Sections										
Measured Depth Incl (usft)	ination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 7,020.00 7,269.96 11,313.69	0.00 0.00 5.00 5.00	0.00 0.00 252.37 252.37	0.00 7,020.00 7,269.64 11,297.99	0.00 0.00 -3.30 -110.05	0.00 0.00 -10.39 -346.20	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 252.37 0.00	
12,202.70 19,500.75 19,630.76	90.40 90.40 90.40	179.82 179.82 179.82	11,854.00 11,803.05 11,802.14	-686.94 -7,984.77 -8,114.78	-391.12 -368.33 -367.92	10.00 0.00 0.00	9.61 0.00 0.00	-8.16 0.00 0.00	-72.57 0.00 0.00	#705H: FTP/LPv2 #705H: LTPv2 #705H: PBHLv2 (200'



Planning Report

Database: ED	DM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #705H
Company: XT	TO Energy	TVD Reference:	RKB=25' @ 3374.00usft
Project: Ed	ddy County, NM (NAD-27)	MD Reference:	RKB=25' @ 3374.00usft
Site: Po	oker Lake Unit 29 BS	North Reference:	Grid
Well: #7	705H	Survey Calculation Method:	Minimum Curvature
Wellbore: Of	Н		
Design: PE	ERMIT		

Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
(usit)	()	0	(usit)	(usit)	(usit)	(usit)	(/ loousity	(/ loodsh)	(nousily
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	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
836.00	0.00	0.00	836.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,199.00	0.00	0.00	1,199.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1.500.00	0.00	0.00	1.500.00	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
1 000 00	0.00	0.00	1 000 00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	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	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	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	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	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	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	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	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,935.00	0.00	0.00	3,935.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
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
4,149.00	0.00	0.00	4,149.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
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
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #705H
Company:	XTO Energy	TVD Reference:	RKB=25' @ 3374.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB=25' @ 3374.00usft
Site:	Poker Lake Unit 29 BS	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
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	4,600.00 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	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
5,100.00 5,139.00	0.00 0.00	0.00 0.00	5,100.00 5,139.00	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	von								
5,200.00 5,300.00 5,400.00	0.00 0.00 0.00	0.00 0.00 0.00	5,200.00 5,300.00 5,400.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,500.00 5,600.00 5,700.00 5,800.00 5,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,500.00 5,600.00 5,700.00 5,800.00 5,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 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
6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 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
6,500.00 6,600.00 6,700.00 6,800.00 6,825.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,500.00 6,600.00 6,700.00 6,800.00 6,825.00	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
Brushy Can	von		-,						
6,900.00 7,000.00 7,020.00 7,100.00 7,200.00	0.00 0.00 0.00 1.60 3.60	0.00 0.00 252.37 252.37	6,900.00 7,000.00 7,020.00 7,099.99 7,199.88	0.00 0.00 0.00 -0.34 -1.71	0.00 0.00 -1.06 -5.39	0.00 0.00 0.34 1.70	0.00 0.00 2.00 2.00	0.00 0.00 0.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
7,269.96 7,300.00 7,400.00 7,500.00 7,600.00 7,700.00	5.00 5.00 5.00 5.00 5.00 5.00	252.37 252.37 252.37 252.37 252.37 252.37	7,269.64 7,299.57 7,399.19 7,498.81 7,598.43 7,698.05	-3.30 -4.09 -6.73 -9.37 -12.01 -14.65	-10.39 -12.88 -21.19 -29.49 -37.79 -46.10	3.27 4.05 6.67 9.28 11.90 14.51	2.00 0.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
7,800.00 7 878 63	5.00 5.00	252.37 252 37	7,797.67 7 876 00	-17.29 -19 37	-54.40 -60.93	17.12 19.18	0.00	0.00	0.00
Basal Brush	v Canvon	202.01	7,070.00	10.01	00.00	13.10	0.00	0.00	0.00
7,900.00 8,000.00	5.00 5.00	252.37 252.37	7,897.29 7,996.91	-19.93 -22.57	-62.71 -71.01	19.74 22.35	0.00 0.00	0.00 0.00	0.00 0.00
8,094.45	5.00	252.37	8,091.00	-25.07	-78.86	24.82	0.00	0.00	0.00
Bone Spring 8,100.00 8,121.56	5.00 5.00	252.37 252.37	8,096.53 8,118.00	-25.21 -25.78	-79.32 -81.11	24.96 25.53	0.00 0.00	0.00 0.00	0.00 0.00
Bone Spring	J LIME	250.27	Q 106 15	27 05	07 60	27 50	0.00	0.00	0.00
8,200.00	5.00	252.37	8,295.76	-27.85	-87.62 -95.93	27.58 30.19	0.00	0.00	0.00
8,400.00 8,500.00 8,600.00	5.00 5.00 5.00	252.37 252.37 252.37	8,395.38 8,495.00 8,594.62	-33.13 -35.77 -38.41	-104.23 -112.54 -120.84	32.81 35.42 38.03	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #705H
Company:	XTO Energy	TVD Reference:	RKB=25' @ 3374.00usft
Project: E	Eddy County, NM (NAD-27)	MD Reference:	RKB=25' @ 3374.00usft
Site: F	Poker Lake Unit 29 BS	North Reference:	Grid
Well: #	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore: (ОН		
Design: F	PERMIT		

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)
8,700.00 8,800.00	5.00 5.00	252.37 252.37	8,694.24 8,793.86	-41.05 -43.69	-129.14 -137.45	40.65 43.26	0.00 0.00	0.00 0.00	0.00 0.00
8,900.00 9,000.00 9.095.26	5.00 5.00 5.00	252.37 252.37 252.37	8,893.48 8,993.10 9.088.00	-46.33 -48.97 -51.49	-145.75 -154.06 -161.97	45.87 48.49 50.98	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1st Bone Sar	0.00	202.01	3,000.00	-01.49	-101.57	50.50	0.00	0.00	0.00
9,100.00 9,200.00	5.00 5.00	252.37 252.37	9,092.72 9,192.34	-51.61 -54.25	-162.36 -170.67	51.10 53.72	0.00 0.00	0.00 0.00	0.00 0.00
9,300.00 9,400.00 9,500.00 9,508,83	5.00 5.00 5.00 5.00	252.37 252.37 252.37 252.37	9,291.96 9,391.58 9,491.20 9,500.00	-56.89 -59.53 -62.17 -62.40	-178.97 -187.28 -195.58 -196.32	56.33 58.94 61.56 61.79	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
2nd Bone Lir	ne	_007	0,000100	02110		00	0.00	0.00	0.00
9,600.00	5.00	252.37	9,590.82	-64.81	-203.89	64.17	0.00	0.00	0.00
9,700.00 9,800.00 9,900.00 9,959.55	5.00 5.00 5.00 5.00	252.37 252.37 252.37 252.37	9,690.44 9,790.06 9,889.68 9,949.00	-67.45 -70.09 -72.73 -74.30	-212.19 -220.50 -228.80 -233.75	69.40 72.01 73.57	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
2nd Bone Sa	nd								
10,000.00 10,100.00	5.00 5.00	252.37 252.37	9,989.30 10,088.92	-75.37 -78.01	-237.10 -245.41	74.62 77.24	0.00 0.00	0.00 0.00	0.00 0.00
10,182.40	5.00	252.37	10,171.00	-80.19	-252.25	79.39	0.00	0.00	0.00
3rd Bone Lin	ne								
10,200.00 10,300.00 10,400.00	5.00 5.00 5.00	252.37 252.37 252.37	10,188.54 10,288.16 10,387.78	-80.65 -83.29 -85.93	-253.71 -262.02 -270.32	79.85 82.47 85.08	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,500.00 10,600.00 10,700.00 10,800.00 10,900.00	5.00 5.00 5.00 5.00 5.00 5.00	252.37 252.37 252.37 252.37 252.37 252.37	10,487.40 10,587.02 10,686.64 10,786.25 10,885.87	-88.57 -91.21 -93.85 -96.49 -99.13	-278.63 -286.93 -295.24 -303.54 -311.85	87.69 90.31 92.92 95.53 98.15	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
11,000.00 11,057.73	5.00 5.00	252.37 252.37	10,985.49 11,043.00	-101.77 -103.29	-320.15 -324.94	100.76 102.27	0.00 0.00	0.00 0.00	0.00 0.00
3rd Bone Sa	nd								
11,100.00 11,200.00 11,300.00	5.00 5.00 5.00	252.37 252.37 252.37	11,085.11 11,184.73 11,284.35	-104.41 -107.05 -109.69	-328.46 -336.76 -345.06	103.38 105.99 108.60	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,313.69 11,350.00 11,381.22	5.00 7.00 9.52	252.37 222.65 209.68	11,297.99 11,334.11 11,365.00	-110.05 -112.16 -115.80	-346.20 -349.21 -351.78	108.96 111.06 114.70	0.00 10.00 10.00	0.00 5.51 8.08	0.00 -81.84 -41.56
Red Hills 11,400.00 11,450.00	11.19 15.85	204.81 196.95	11,383.48 11,432.08	-118.81 -129.75	-353.31 -357.34	117.69 128.62	10.00 10.00	8.86 9.32	-25.93 -15.72
11,472.91 Wolfcamp	18.04	194.69	11,454.00	-136.17	-359.15	135.04	10.00	9.58	-9.83
11,500.00 11,503.69	20.67 21.02	192.63 192.39	11,479.56 11,483.00	-144.90 -146.18	-361.26 -361.54	143.76 145.04	10.00 10.00	9.68 9.72	-7.60 -6.57
Wolfcamp X		100 00		40					
11,550.00 11,600.00	25.55 30.47	189.90 188.01	11,525.53 11,569.66	-164.14 -187.33	-365.05 -368.67	162.99 186.17	10.00 10.00	9.77 9.84	-5.37 -3.80
11,609.72 Wolfcamp Y	31.43	187.70	11,578.00	-192.29	-369.35	191.12	10.00	9.87	-3.14
11,650.00	35.41	186.59	11,611.61	-214.29	-372.10	213.12	10.00	9.89	-2.75



Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #705H
Company:	XTO Energy	TVD Reference:	RKB=25' @ 3374.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB=25' @ 3374.00usft
Site:	Poker Lake Unit 29 BS	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)	
11,650.4	8 35.46	186.58	11,612.00	-214.57	-372.13	213.40	10.00	9.90	-2.47	
Wolfcamp	A									
11,700.0	0 40.37	185.49	11,651.06	-244.82	-375.32	243.64	10.00	9.91	-2.21	
11,750.0	0 45.33	184.59	11,687.70	-278.68	-378.29	277.49	10.00	9.92	-1.80	
11 800 0	0 50.30	183 83	11 721 27	-315 62	-380 99	314 42	10 00	9 94	-1 52	
11.850.0	0 55.27	183.17	11.751.50	-355.35	-383.41	354.14	10.00	9.95	-1.31	
11,900.0	0 60.25	182.59	11,778.17	-397.57	-385.53	396.36	10.00	9.95	-1.16	
11,950.0	0 65.22	182.06	11,801.07	-441.97	-387.33	440.75	10.00	9.96	-1.05	
12,000.0	0 70.20	181.58	11,820.03	-488.19	-388.79	486.97	10.00	9.96	-0.97	
12 050 0	0 75.18	181 12	11 834 90	-535 90	-389 91	534 67	10 00	9 96	-0.91	
12,100.0	0 80.17	180.68	11.845.57	-584.73	-390.68	583.50	10.00	9.96	-0.87	
12,150.0	0 85.15	180.26	11,851.95	-634.30	-391.09	633.07	10.00	9.96	-0.85	
12,202.7	0 90.40	179.82	11,854.00	-686.94	-391.12	685.71	10.00	9.97	-0.83	
LP										
12,300.0	0 90.40	179.82	11,853.32	-784.24	-390.82	783.01	0.00	0.00	0.00	
12,400.0	0 90.40	179.82	11,852.62	-884.24	-390.51	883.00	0.00	0.00	0.00	
12,500.0	0 90.40	179.82	11,851.92	-984.23	-390.19	983.00	0.00	0.00	0.00	
12,600.0	0 90.40	179.82	11,851.23	-1,084.23	-389.88	1,083.00	0.00	0.00	0.00	
12,700.0	0 90.40	179.82	11,850.53	-1,184.23	-389.57	1,183.00	0.00	0.00	0.00	
12,800.0	0 90.40	179.82	11,849.83	-1,284.22	-389.26	1,282.99	0.00	0.00	0.00	
12,900.0	0 90.40	179.82	11,849.13	-1,384.22	-388.95	1,382.99	0.00	0.00	0.00	
13,000.0	0 90.40	179.82	11,848.43	-1,484.22	-388.63	1,482.99	0.00	0.00	0.00	
13,100.0	0 90.40	179.82	11,847.74	-1,584.22	-388.32	1,582.99	0.00	0.00	0.00	
13,200.0	0 90.40	179.82	11,847.04	-1,684.21	-388.01	1,682.98	0.00	0.00	0.00	
13,300.0	0 90.40	179.82	11,846.34	-1,784.21	-387.70	1,782.98	0.00	0.00	0.00	
13,400.0	0 90.40	179.82	11,845.64	-1,884.21	-387.38	1,882.98	0.00	0.00	0.00	
13,500.0	0 90.40	179.82	11,844.94	-1,984.20	-387.07	1,982.98	0.00	0.00	0.00	
13,600.0	0 90.40	179.82	11,844.25	-2,084.20	-386.76	2,082.98	0.00	0.00	0.00	
13,700.0	0 90.40	179.82	11,843.55	-2,184.20	-386.45	2,182.97	0.00	0.00	0.00	
13,600.0	0 90.40	179.02	11,042.05	-2,204.19	-360.13	2,202.97	0.00	0.00	0.00	
13,900.0	0 90.40	179.82	11,842.15	-2,384.19	-385.82	2,382.97	0.00	0.00	0.00	
14,000.0	0 90.40	179.82	11,841.45	-2,484.19	-385.51	2,482.97	0.00	0.00	0.00	
14,100.0	0 90.40	179.82	11,840.75	-2,584.19	-385.20	2,582.90	0.00	0.00	0.00	
14,200.0	0 90.40 0 90.40	179.02	11,839,36	-2,004.10	-384 57	2,002.90	0.00	0.00	0.00	
14,000.0	0 00.40	170.02	11,000.00	2,704.10	004.07	2,702.00	0.00	0.00	0.00	
14,400.0	0 90.40	179.82	11,838.66	-2,884.18	-384.26	2,882.96	0.00	0.00	0.00	
14,500.0	0 90.40	179.82	11,837.96	-2,984.17	-383.95	2,982.95	0.00	0.00	0.00	
14,000.0	0 90.40	179.02	11,037.20	-3,004.17	-383 32	3,082.95	0.00	0.00	0.00	
14,700.0	0 90.40	179.82	11 835 87	-3 284 17	-383.01	3 282 95	0.00	0.00	0.00	
11,000,0	0 00.40	470.00	44,005,47	0.004.40	202 70	2,202,04	0.00	0.00	0.00	
14,900.0	0 90.40	179.82	11,835.17	-3,384.16	-382.70	3,382.94	0.00	0.00	0.00	
15,000.0	0 90.40	179.02	11,034.47	-3,404.10	-382.39	3,402.94	0.00	0.00	0.00	
15,200.0	0 90.40	179.82	11.833.08	-3.684.15	-381.76	3.682.94	0.00	0.00	0.00	
15,300.0	0 90.40	179.82	11,832.38	-3,784.15	-381.45	3,782.93	0.00	0.00	0.00	
15 400 0	0 00 10	170 82	11 831 68	-3 884 15	-381 1/	3 882 03	0.00	0.00	0.00	
15.500.0	0 90.40	179.82	11.830.98	-3.984.14	-380.82	3,982,93	0.00	0.00	0.00	
15,600.0	0 90.40	179.82	11,830.28	-4,084.14	-380.51	4,082.93	0.00	0.00	0.00	
15,700.0	0 90.40	179.82	11,829.58	-4,184.14	-380.20	4,182.92	0.00	0.00	0.00	
15,800.0	0 90.40	179.82	11,828.89	-4,284.14	-379.89	4,282.92	0.00	0.00	0.00	
15,900.0	0 90.40	179.82	11,828.19	-4,384.13	-379.57	4,382.92	0.00	0.00	0.00	
16,000.0	0 90.40	179.82	11,827.49	-4,484.13	-379.26	4,482.92	0.00	0.00	0.00	
16,100.0	0 90.40	179.82	11,826.79	-4,584.13	-378.95	4,582.91	0.00	0.00	0.00	
16,200.0	0 90.40	179.82	11,826.09	-4,684.12	-378.64	4,682.91	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #705H
Company:	XTO Energy	TVD Reference:	RKB=25' @ 3374.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB=25' @ 3374.00usft
Site:	Poker Lake Unit 29 BS	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

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)
16,300.00	90.40	179.82	11,825.40	-4,784.12	-378.33	4,782.91	0.00	0.00	0.00
16,400.00 16,500.00 16,600.00 16,700.00 16,800.00	90.40 90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82 179.82 179.82	11,824.70 11,824.00 11,823.30 11,822.60 11,821.91	-4,884.12 -4,984.12 -5,084.11 -5,184.11 -5,284.11	-378.01 -377.70 -377.39 -377.08 -376.76	4,882.91 4,982.90 5,082.90 5,182.90 5,282.90	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
16,900.00 17,000.00 17,100.00 17,200.00 17,300.00	90.40 90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82 179.82 179.82	11,821.21 11,820.51 11,819.81 11,819.11 11,818.41	-5,384.10 -5,484.10 -5,584.10 -5,684.10 -5,784.09	-376.45 -376.14 -375.83 -375.51 -375.20	5,382.89 5,482.89 5,582.89 5,682.89 5,782.89	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
17,400.00 17,500.00 17,600.00 17,700.00 17,800.00	90.40 90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82 179.82 179.82	11,817.72 11,817.02 11,816.32 11,815.62 11,814.92	-5,884.09 -5,984.09 -6,084.08 -6,184.08 -6,284.08	-374.89 -374.58 -374.26 -373.95 -373.64	5,882.88 5,982.88 6,082.88 6,182.88 6,282.87	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
17,900.00 18,000.00 18,100.00 18,200.00 18,300.00	90.40 90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82 179.82 179.82	11,814.23 11,813.53 11,812.83 11,812.13 11,811.43	-6,384.07 -6,484.07 -6,584.07 -6,684.07 -6,784.06	-373.33 -373.02 -372.70 -372.39 -372.08	6,382.87 6,482.87 6,582.87 6,682.86 6,782.86	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
18,400.00 18,500.00 18,600.00 18,700.00 18,800.00	90.40 90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82 179.82 179.82	11,810.74 11,810.04 11,809.34 11,808.64 11,807.94	-6,884.06 -6,984.06 -7,084.05 -7,184.05 -7,284.05	-371.77 -371.45 -371.14 -370.83 -370.52	6,882.86 6,982.86 7,082.85 7,182.85 7,282.85	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
18,900.00 19,000.00 19,100.00 19,200.00 19,300.00	90.40 90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82 179.82 179.82	11,807.24 11,806.55 11,805.85 11,805.15 11,804.45	-7,384.05 -7,484.04 -7,584.04 -7,684.04 -7,784.03	-370.20 -369.89 -369.58 -369.27 -368.95	7,382.85 7,482.84 7,582.84 7,682.84 7,782.84	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
19,400.00 19,500.75 19,600.00 19,630.76	90.40 90.40 90.40 90.40	179.82 179.82 179.82 179.82	11,803.75 11,803.05 11,802.36 11,802.14	-7,884.03 -7,984.77 -8,084.03 -8,114.78	-368.64 -368.33 -368.02 -367.92	7,882.83 7,983.58 8,082.83 8,113.59	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00



Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 S XTO Energy Eddy County, Poker Lake U #705H OH PERMIT	Single User NM (NAD-2 nit 29 BS	Db ?7)		Local Co-ord TVD Referend MD Referend North Refered Survey Calco	dinate Reference: ace: ence: ence: ulation Method:	Well #705 RKB=25' (RKB=25' (Grid Minimum (H 9 3374.00usft 9 3374.00usft Curvature	
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
#705H: SHLv2 (2310' F - plan hits target ce - Point	•N 0.00 enter	0.01	0.00	0.00	0.00	401,274.50	665,817.20	32.102088	-103.797839
#705H: PBHLv2 (200' F - plan hits target ce - Point	enter 0.00	0.01	11,802.14	-8,114.78	-367.92	393,160.20	665,449.30	32.079787	-103.799157
#705H: LTPv2 - plan misses targe - Point	0.00 et center by 0.49	0.01 Jusft at 1950	11,803.05 00.75usft MD	-7,984.77 (11803.05 TVI	-368.82 D, -7984.77 N,	393,290.20 -368.33 E)	665,448.40	32.080144	-103.799158
#705H: FTP/LPv2 - plan hits target ce - Point	0.00 enter	0.01	11,854.00	-686.94	-391.12	400,587.60	665,426.10	32.100205	-103.799113

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
836.00	835.00	Rustler			
1,199.00	1,198.00	Salado			
3,935.00	3,934.00	Base of Salt			
4,149.00	4,148.00	Delaware			
5,139.00	5,138.00	Cherry Canyon			
6,825.00	6,824.00	Brushy Canyon			
7,878.63	7,875.00	Basal Brushy Canyon			
8,094.45	8,090.00	Bone Spring			
8,121.56	8,117.00	Bone Spring Lime			
9,095.26	9,087.00	1st Bone Sand			
9,508.83	9,499.00	2nd Bone Lime			
9,959.55	9,948.00	2nd Bone Sand			
10,182.40	10,170.00	3rd Bone Lime			
11,057.73	11,042.00	3rd Bone Sand			
11,381.22	11,364.00	Red Hills			
11,472.91	11,453.00	Wolfcamp			
11,503.69	11,482.00	Wolfcamp X			
11,609.72	11,577.00	Wolfcamp Y			
11,650.48	11,611.00	Wolfcamp A			
12,202.70	11,853.00	LP			

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.

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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_1 ow	Pressure Test—High Pressure ^{ac}				
	Pressure Test—Low Pressure ^{ac} psig (MPa)	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 M whichever is lower	ASP for the well program,			
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program				
 Pressure test evaluation periods e No visible leaks. The pressure shall remain stable Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections For surface offshore operations, til 	hall be a minimum of five minutes. during the evaluation period. The p issure tested on the largest and sm from one wellhead to another withi when the integrity of a pressure se te ram BOPs shall be pressure tes	pressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req al is broken. ted with the ram locks engaged and	intended test pressure. program. uired for pressure-containing an the closing and locking pressur			

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.

