Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR REC'D: 6/18/2020 BUREAU OF LAND MANAGEMENT

EMNRD-OCD ARTESIA

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

5. Lease Serial No. NMLC063079A

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

abandoned we	6. If Indian, Allotte	e or Tribe Name		
SUBMIT IN	TRIPLICATE - Other instru	ctions on page 2	7. If Unit or CA/Ag 891000303X	reement, Name and/or No.
1. Type of Well			8. Well Name and N	io. UNIT 25 BD 128H
☐ Oil Well ☐ Gas Well ☐ Oth				UNIT 25 BD 128H
2. Name of Operator XTO PERMIAN OPERATING	Contact: KE LLC E-Mail: kelly_kardos@	ELLY KARDOS ②xtoenergy.com	9. API Well No. 30-015-45851	-00-X1
3a. Address 6401 HOLIDAY HILL ROAD E MIDLAND, TX 79707		8b. Phone No. (include area code) Ph: 432-620-4374	10. Field and Pool of PURPLE SAC	or Exploratory Area GE-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)		11. County or Paris	h, State
Sec 25 T25S R30E SENE 23 ⁴ 32.102169 N Lat, 103.828056			EDDY COUN	TY, NM
12. CHECK THE AF	PPROPRIATE BOX(ES) TO	O INDICATE NATURE O	F NOTICE, REPORT, OR O	ΓHER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Ni-ti	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
■ Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	■ Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New Construction	☐ Recomplete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	□ Temporarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	■ Water Disposal	
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for final	ally or recomplete horizontally, given will be performed or provide the operations. If the operation result bandonment Notices must be filed	ve subsurface locations and measure Bond No. on file with BLM/BIA ts in a multiple completion or reco	red and true vertical depths of all per Required subsequent reports must mpletion in a new interval, a Form 3	tinent markers and zones. be filed within 30 days 160-4 must be filed once
XTO Permian Operating, LLC	, requests permission to ma	ke the following changes to	the original APD:	
Casing/Cement design per the	e attached drilling program.			
Change BHL from 2440FNL &	360FEL in Sec. 12-T26S-R	30E to 200FSL & 330FEL i	n Sec. 36-T25S-R30E.	
XTO also requests the following	ng variances:			
Approval to utilize a spudder r Operations.	ig to pre-set surface casing	per the attached Description	n of	
Batch drill this well if necessar	y. In doing so, XTO will set	each casing string and ensu	ure that	
14. I hereby certify that the foregoing is	Electronic Submission #519	9250 verified by the BLM Well I OPERATING LLC, sent to the sing by PRISCILLA PEREZ or	ne Carlsbad	
Name(Printed/Typed) KELLY KA	ARDOS	Title REGULA	ATORY COORDINATOR	
Signature (Electronic S	Submission)	Date 06/17/20	020	
	THIS SPACE FOR	FEDERAL OR STATE (OFFICE USE	
Approved By JENNIFER SANCHI	EZ	TitlePETROLE	UM ENGINEER	Date 06/18/2020
Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	uitable title to those rights in the su		1	
Fitle 18 II S.C. Section 1001 and Title 43	II.S.C. Saction 1212 make it a cri	ma for any person knowingly and	willfully to make to any department	or agency of the United

Additional data for EC transaction #519250 that would not fit on the form

32. Additional remarks, continued

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.

Cement offline for the surface & intermediate casing strings.

Attachments:
C102 & Supplement
Drilling Program
Direction Drill Plan
Multibowl Diagram
Spudder Rig Description of Operations
BOP Break Test Procedure

Revisions to Operator-Submitted EC Data for Sundry Notice #519250

Operator Submitted BLM Revised (AFMSS)

APDCH **APDCH** Sundry Type: NOI NOI

Lease: NMLC063079A NMLC063079A

Agreement: NMNM71016X 891000303X (NMNM71016X)

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

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

KELLY KARDOS Admin Contact:

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

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

Tech Contact:

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

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

Location:

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

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

POKER LAKE UNIT 25 BD 128H POKER LAKE UNIT 25 BD 128H Well/Facility:

Sec 25 T25S R30E SENE 2310FNL 630FEL Sec 25 T25S R30E Mer NMP SENE 2310FNL 630FEL 32.102169 N Lat, 103.828056 W Lon

PECOS DISTRICT DRILLING DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMLC-0063079A
WELL NAME & NO.:
Poker Lake Unit 25 BD 128H
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
Section 25, T. 25 S., R 30 E., NMPM

COUNTY: Eddy County, New Mexico

COA

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

Medium Cave/Karst

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 **1106** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement as proposed. Report Echo meter results on subsequent sundry. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

- 3. The minimum required fill of cement behind the 5-1/2 X 5 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

BOP Break Testing Variance

- Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

D. SPECIAL REQUIREMENTS

Unit Wells

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

Commercial Well Determination

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 5. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

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

- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.

- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 06182020

District I

District IV

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

1220 South St. Francis Dr. Santa Fe, NM 87505

OIL CONSERVATION DIVISION

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- 45851		² Pool Code	³ Pool Name					
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number				
		128H						
⁷ OGRID No.		⁸ Operator Name						
373075		XTO PERMIAN OPERATING, LLC						

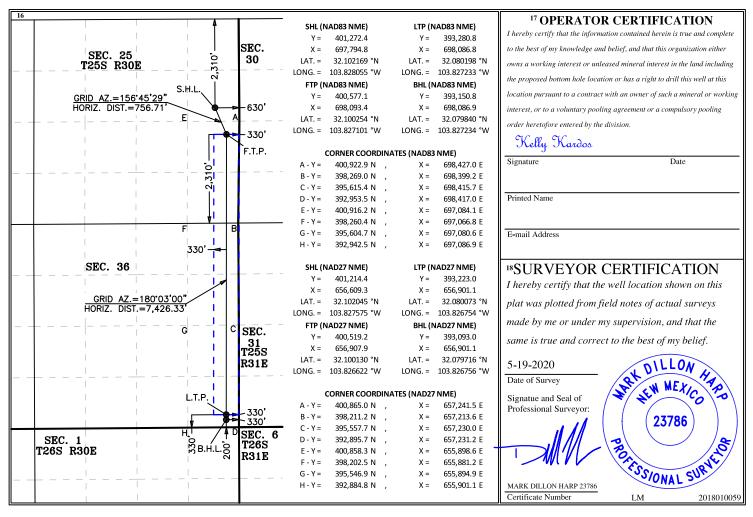
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	25	25 S	30 E		2,310	NORTH	630	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

	Bottom Hole Eccation in Different From Surface										
UL	or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
	P	36	25 S	30 E		200	SOUTH	330	EAST	EDDY	
¹² De	edicated Acres	¹³ Joint or	r Infill 14 (1			3	31	•		

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.



RWP 6/19/2020

Inten	t	As Dril	led										
API#	†												
Ope	rator Nai	ne:				Prop	perty N	ame	:				Well Number
Kick (Off Point	(KOP)											
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet	F	rom E/W	County	
Latit	<u>l</u> ude				Longitu	ude						NAD	
First Tul	Take Poir	nt (FTP)	Range	Lot	Feet		From N	ı/s	Feet	F	rom E/W	/ County	
Latit			age		Longitu	ıde						NAD	
Latit					Longite							10,15	
Last 1	Гake Poin	t (LTP)											
UL	Section	Township	Range	Lot	Feet	Fror	m N/S	Feet		From E/	W Cou	inty	
Latit	ude				Longitu	ıde		I			NAI)	
											<u> </u>		
Is this	s well the	defining v	vell for th	ne Hori	zontal Տլ	pacing	g Unit?]			
Is this	s well an	infill well?											
	ll is yes p ng Unit.	lease provi	ide API if	availal	ole, Ope	rator I	Name	and v	vell nı	umber f	or Defir	ning well f	or Horizontal
API#	ŧ												
Ope	rator Nai	me:	1			Prop	perty N	ame					Well Number

Poker Lake Unit 25 BD 128H

Projected TD: 19148' MD / 10450' TVD SHL: 2310' FNL & 630' FEL , Section 25, T25S, R30E BHL: 200' FSL & 330' FEL . Section 36, T25S, R30E Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 11-3/4" cosing @ 1106' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate cosing will be set at 10550' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' - 1106'	11-3/4"	54	BTC	J-55	New	1.31	4.14	14.23
9-7-8"	0' - 10550'	7-5/8"	29.7	BTC	HCL-80	New	2.02	2.09	2.18
6-3/4"	0' – 10450'	5-1/2"	23	BTC	P-110	New	1.21	2.55	3.01
6-3/4"	10450' - 19148'	5-0"	18	BTC	P-110	New	1.16	2.16	2.25

XTO requests to not utilize centralizers in the curve and lateral

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

5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35 Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

WELLHEAD:

Permanent Wellhead – Multibowl System

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

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

Operator will test the 7-5/8" casing per Onshore Order 2.
Wellhead manufacturer representative may not be present for BOP test plug installation

Cement Program

Surface Casing:

Lead: 370 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing:

1st Stage

Optional Lead: 770 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water) Tail: 780 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: 1330 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 (6621') 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 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.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per wellhead manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing:

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Tail: 790 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water) 24 hr = 1500psi Compressives: 12-hr = 800 psi

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1106'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1106' - 10550'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.5-9.7	30-32	NC
10550' to 19148'	6-3/4"	Cut Brine / WBM / OBM	10-11	32-36	NC

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

XTO Energy Inc.

Poker Lake Unit 25 Brushy Draw 128H Projected TD: 19148' MD / 10450' TVD SHL: 2310' FNL & 630' FEL , Section 25, T25S, R30E BHL: 200' FSL & 330' FEL , Section 36, T25S, R30E Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	905'	Water
Top of Salt	1156'	Water
Base of Salt	3930'	Water
Delaware	4078'	Water
Brushy Canyon	6621'	Water/Oil/Gas
Bone Spring	7964'	Water
1st Bone Spring Ss	8943'	Water/Oil/Gas
2nd Bone Spring Ss	9647'	Water/Oil/Gas
3rd Bone Spring Ss	10904'	Water/Oil/Gas
Wolfcamp	11265'	Water/Oil/Gas
Wolfcamp X	11332'	Water/Oil/Gas
Wolfcamp Y	11415'	Water/Oil/Gas
Target/Land Curve	11428'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 11-3/4" casing @ 1106' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 10550' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1106'	11-3/4"	54	BTC	J-55	New	1.31	4.14	14.23
9-7/8"	0' – 10550'	7-5/8"	29.7	BTC	HCL-80	New	2.02	2.09	2.18
6-3/4"	0' – 10450'	5-1/2"	23	BTC	P-110	New	1.21	2.55	3.01
6-3/4"	10450' - 19148'	5-0"	18	втс	P-110	New	1.16	2.16	2.25

- \cdot XTO requests to not utilize centralizers in the curve and lateral
- \cdot 7-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- · 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- · Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Permanent Wellhead - Multibowl System

- A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom
- B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange
 - · Wellhead will be installed by manufacturer's representatives.
 - \cdot Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 7-5/8" casing per BLM Onshore Order 2
 - · Wellhead Manufacturer representative will not be present for BOP test plug installation

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

4. Cement Program

Surface Casing: 11-3/4", 54 New J-55, BTC casing to be set at +/- 1106'

Lead: 370 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

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

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

TOC: Surface

Intermediate Casing: 7-5/8", 29.7 New HCL-80, BTC casing to be set at +/- 10550'

1st Stage

Optional Lead: 770 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 780 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 (6621')

2nd Stage

Tail: 1330 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water)

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

TOC: Surface

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6621') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. The final cement top will be verified by Echo-meter.

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

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per wellhead manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5-1/2", 23 New P-110, BTC x 5-0", 18 New P-110, BTC casing to be set at +/- 19148' Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 790 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 3726 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nippling up on the 11-3/4", 5M bradenhead and flange, the BOP test will be limited to 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a

certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per wellhead manufacturer recommendations, XTO will contact the BLM on each rig skid on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1106'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1106' - 10550'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.5-9.7	30-32	NC
10550' to 19148'	6-3/4"	Cut Brine / WBM / OBM	10-11	32-36	NC

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

Spud with fresh water/native mud and set 11-3/4" surface casing, isolating the fresh water aquifer. Drill out from under 11-3/4" surface casing with a brine/oil direct emulsion mud system. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 11-3/4" casing.

8. Logging, Coring and Testing Program

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

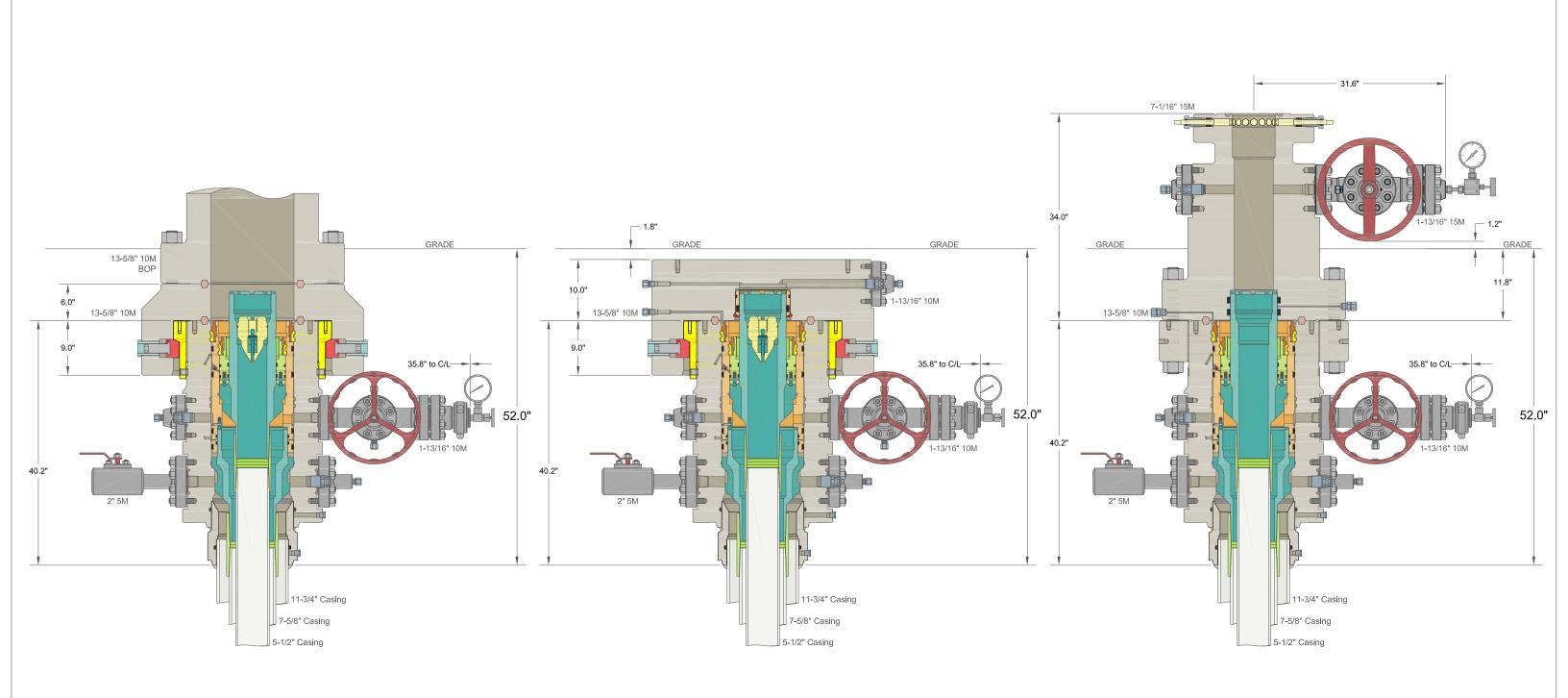
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 150 to 170 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6240 psi.

10. Anticipated Starting Date and Duration of Operations

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



DRILLING SKID COMPLETION

ALL DIMENSIONS APPROXIMATE

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

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XTO ENERGY, INC.

Eddy County, NM Poker Lake Unit 25 BD Pad Poker Lake Unit 25 BD #128H

Wellbore #1

Plan: Design #1

QES Well Planning Report

16 June, 2020





Project:

QESWell Planning Report



Database: EDM 5000.1 Single User Db XTO ENERGY, INC.

XTO ENERGY, INC. Eddy County, NM

Site: Poker Lake Unit 25 BD Pad
Well: Poker Lake Unit 25 BD #128H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

Grid

Minimum Curvature

Project Eddy County, NM

Map System: US State Plane 1927 (Exact solution)

Geo Datum: NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Poker Lake Unit 25 BD Pad

401,214.60 usft Site Position: Northing: Latitude: 32° 6' 7.361 N 103° 49' 38.922 W Easting: 656,639.30 usft From: Мар Longitude: **Position Uncertainty:** Slot Radius: **Grid Convergence:** 0.27° 0.0 usft 13-3/16 "

Well Poker Lake Unit 25 BD #128H

 Well Position
 +N/-S +E/-W
 -0.2 usft -30.0 usft
 Northing:
 401,214.40 usft 656,609.30 usft
 Latitude:
 32° 6' 7.361 N Longitude:
 32° 6' 7.361 N 103° 49' 39.271 W

Position Uncertainty0.0 usftWellhead Elevation:Ground Level:3,366.0 usft

Wellbore #1

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 HDGM2020
 6/15/2020
 6.58
 59.72
 47,706.50000000

Design #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (°)

 0.0
 0.0
 0.0
 180.05

Plan Section	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,533.4	5.00	119.61	1,533.0	-7.2	12.6	1.50	1.50	0.00	119.61	
5,146.2	5.00	119.61	5,132.0	-162.8	286.5	0.00	0.00	0.00	0.00	
5,479.6	0.00	0.00	5,465.0	-170.0	299.1	1.50	-1.50	0.00	180.00	
10,869.6	0.00	0.00	10,855.0	-170.0	299.1	0.00	0.00	0.00	0.00	
11,769.6	90.00	180.05	11,428.0	-743.0	298.6	10.00	10.00	-19.99	180.05	
19,148.0	90.00	180.05	11,428.0	-8,121.4	291.8	0.00	0.00	0.00	0.00 PE	BHL - PLU 25 BD





Database: EDM 5000.1 Single User Db

XTO ENERGY, INC. Company: Project: Eddy County, NM Site:

Poker Lake Unit 25 BD Pad Well: Poker Lake Unit 25 BD #128H

Wellbore: Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

Wellbore: Design:	Wellbore #1 Design #1								
Planned Survey									
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)
0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0 800.0 900.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0 800.0 900.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
RSLR									
906.0	0.00	0.00	906.0	0.0	0.0	0.0	0.00	0.00	0.00
Magenta Do		0.00	004.0	2.0	0.0	2.0	0.00	0.00	0.00
991.0 1,000.0 1,100.0	0.00 0.00 0.00	0.00 0.00 0.00	991.0 1,000.0 1,100.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Salado (Top 1,157.0	0.00	0.00	1,157.0	0.0	0.0	0.0	0.00	0.00	0.00
,		0.00	1,107.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 1.5°/10 1,200.0 1,300.0 1,400.0 1,500.0	0.00 1.50 3.00 4.50	0.00 119.61 119.61 119.61	1,200.0 1,300.0 1,399.9 1,499.7	0.0 -0.6 -2.6 -5.8	0.0 1.1 4.6 10.2	0.0 0.6 2.6 5.8	0.00 1.50 1.50 1.50	0.00 1.50 1.50 1.50	0.00 0.00 0.00 0.00
1,533.4	° Inc. / 119.61 5.00	119.61	1,533.0	-7.2	12.6	7.2	1.50	1.50	0.00
1,600.0 1,700.0 1,800.0 1,900.0 2,000.0	5.00 5.00 5.00 5.00 5.00 5.00	119.61 119.61 119.61 119.61 119.61	1,599.3 1,698.9 1,798.6 1,898.2 1,997.8	-7.2 -10.1 -14.4 -18.7 -23.0 -27.3	17.7 25.3 32.8 40.4 48.0	10.0 14.3 18.6 22.9 27.2	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
2,100.0 2,200.0 2,300.0 2,400.0	5.00 5.00 5.00 5.00	119.61 119.61 119.61 119.61	2,097.4 2,197.0 2,296.7 2,396.3	-31.6 -35.9 -40.2 -44.5	55.6 63.2 70.7 78.3	31.5 35.8 40.1 44.4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
CSTL 2,481.0	5.00	119.61	2,477.0	-48.0	84.5	47.9	0.00	0.00	0.00
2,500.0 2,600.0 2,700.0 2,800.0 2,900.0	5.00 5.00 5.00 5.00 5.00	119.61 119.61 119.61 119.61 119.61	2,495.9 2,595.5 2,695.1 2,794.8 2,894.4	-48.8 -53.1 -57.4 -61.7 -66.1	85.9 93.5 101.1 108.6 116.2	48.7 53.0 57.4 61.7 66.0	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
3,000.0 3,100.0 3,200.0 3,300.0 3,400.0	5.00 5.00 5.00 5.00 5.00	119.61 119.61 119.61 119.61 119.61	2,994.0 3,093.6 3,193.2 3,292.9 3,392.5	-70.4 -74.7 -79.0 -83.3 -87.6	123.8 131.4 139.0 146.5 154.1	70.3 74.6 78.9 83.2 87.5	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
3,500.0 3,600.0 3,700.0 3,800.0 3,900.0	5.00 5.00 5.00 5.00 5.00	119.61 119.61 119.61 119.61 119.61	3,492.1 3,591.7 3,691.3 3,790.9 3,890.6	-91.9 -96.2 -100.5 -104.8 -109.1	161.7 169.3 176.8 184.4 192.0	91.8 96.1 100.4 104.7 109.0	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
Salt_B 3,940.6	5.00	119.61	3,931.0	-110.9	195.1	110.7	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Poker Lake Unit 25 BI

Site: Poker Lake Unit 25 BD Pad
Well: Poker Lake Unit 25 BD #128H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

irid

New York New York	esigii.	Design #1								
Depth Inclination Zimuth Cyt Cyt	Planned Survey									
A 08 92 5 5 00 119 61 4 4079 0 -117,3 206,3 117,1 0,00 0,00 0,00 0,00 4,200,0 5,00 119 61 4,089 8 -117,7 207,2 117,6 0,00 0,00 0,00 0,00 4,200,0 5,00 119 61 4,289 0 -126,4 22,2 214,7 121 9 0,00 0,00 0,00 0,00 4,400,0 5,00 119 61 4,288 0 -126,4 22,2 3 126,2 0,00 0,00 0,00 0,00 4,500,0 5,00 119 61 4,488 3 -135,0 237,5 134,8 0,00 0,00 0,00 0,00 4,500,0 5,00 119 61 4,488 3 -135,0 237,5 134,8 0,00 0,00 0,00 0,00 4,600,0 5,00 119 61 4,487,5 -143,6 252,6 143,4 0,00 0,00 0,00 0,00 4,700,0 5,00 119 61 4,787,1 -147,9 260,2 245,1 139 1 0,00 0,00 0,00 4,900,0 5,00 119 61 4,787,1 -147,9 260,2 247,7 0,00 0,00 0,00 0,00 5,00 119 61 4,886 8 -152,2 267,8 152,0 0,00 0,00 0,00 0,00 5,00 119 61 4,886 8 -152,2 267,8 152,0 0,00	Depth			Depth			Section	Rate	Rate	Rate
4,088.2 5.00 119.61 4,079.0 -117.3 206.3 117.1 0.00 0.00 0.00 4,200.0 5.00 119.61 4,089.8 -117.7 207.2 117.6 0.00 0.00 0.00 0.00 4,200.0 5.00 119.61 4,189.4 -122.1 214.7 121.9 0.00 0.00 0.00 0.00 4,200.0 5.00 119.61 4,289.0 -126.4 22.3 126.2 0.00 0.00 0.00 0.00 4,400.0 5.00 119.61 4,289.0 -126.4 22.3 126.2 0.00 0.00 0.00 0.00 4,500.0 5.00 119.61 4,289.9 -139.3 225.5 134.8 0.00 0.00 0.00 0.00 4,500.0 5.00 119.61 4,488.3 -135.0 237.5 134.8 0.00 0.00 0.00 0.00 4,500.0 5.00 119.61 4,587.9 -139.3 245.1 139.1 0.00 0.00 0.00 0.00 4,700.0 5.00 119.61 4,587.9 -139.3 245.1 139.1 0.00 0.00 0.00 0.00 4,700.0 5.00 119.61 4,777.1 147.9 280.2 147.7 0.00 0.00 0.00 0.00 4,800.0 5.00 119.61 4,777.1 147.9 280.2 147.7 0.00 0.00 0.00 0.00 4,800.0 5.00 119.61 4,777.1 147.9 280.2 147.7 0.00 0.00 0.00 0.00 4,800.0 5.00 119.61 4,787.1 147.9 280.2 147.7 0.00 0.00 0.00 0.00 6.00 119.61 4,886.4 -152.2 287.8 152.2 0.00 0.00 0.00 0.00 0.00 0.00 0.00		5.00	119.61	3,990.2	-113.4	199.6	113.3	0.00	0.00	0.00
4,400.0 5.00 119.61 4,488.7 -130.7 229.9 130.5 0.00 0.00 0.00 4,500.0 5.00 119.61 4,488.3 -135.0 237.5 134.8 0.00 0.00 0.00 0.00 4,600.0 5.00 119.61 4,488.3 -135.0 237.5 134.8 0.00 0.00 0.00 0.00 4,700.0 5.00 119.61 4,687.5 -143.6 252.6 143.4 0.00 0.00 0.00 0.00 4,700.0 5.00 119.61 4,687.5 -143.6 252.6 143.4 0.00 0.00 0.00 0.00 4,800.0 5.00 119.61 4,886.8 -152.2 267.8 152.0 0.00 0.00 0.00 0.00 5,000.0 5.00 119.61 4,886.8 -152.2 267.8 152.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4,089.2 4,100.0	5.00	119.61	4,089.8	-117.7	207.2	117.6	0.00	0.00	0.00
4.900.0 5.00 119.61 4.886.8 1-152.2 267.8 152.0 0.00 0.00 0.00 0.00 c500 0.00 0.00 0.	4,400.0 4,500.0 4,600.0	5.00 5.00 5.00	119.61 119.61 119.61	4,388.7 4,488.3 4,587.9	-130.7 -135.0 -139.3	229.9 237.5 245.1	126.2 130.5 134.8 139.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	4,900.0 5,000.0	5.00	119.61	4,886.8	-152.2	267.8	152.0	0.00	0.00	0.00
Drop 1.5*/100* 5,1462 5.00 119.61 5,132.0 -162.8 286.5 162.6 0.00 0.00 0.00 0.5200.0 4.19 119.61 5,185.6 -164.9 290.2 164.7 1.50 -1.50 0.00 5,300.0 2.69 119.61 5,285.5 -167.9 295.4 167.7 1.50 -1.50 0.00 0	5,019.7									
5,146,2 5,00 119,61 5,132,0 -162,8 286,5 162,6 0.00 0.00 0.00 5,200.0 4,19 119,61 5,185,6 -164,9 290,2 164,7 1,50 -1,50 0.00 5,300.0 2,69 119,61 5,285,5 -167,9 295,4 167,7 1,50 -1,50 0.00 5,400.0 1,19 119,61 5,285,5 -169,6 298,4 169,3 1,50 -1,50 0.00 5,479.6 0.00 0.00 5,486,0 -170.0 299.1 169,7 1,50 -1,50 -150,27 5,600.0 0.00 0.00 5,485,4 -170.0 299.1 169,7 0.00 0.00 0.00 5,600.0 0.00 0.00 5,885,4 -170.0 299.1 169,7 0.00 0.00 0.00 5,800.0 0.00 0.00 5,885,4 -170.0 299.1 169,7 0.00 0.00 0.00 5,800.0	· ·			•						
5,479.6 0.00 0.00 5,465.0 -170.0 299.1 169.7 1.50 -1.50 -150.27 5,500.0 0.00 0.00 0.00 5,485.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,700.0 0.00 0.00 5,585.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,800.0 0.00 0.00 5,685.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,900.0 0.00 0.00 5,785.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,000.0 0.00 0.00 5,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,000.0 0.00 0.00 6,085.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,200.0 0.00 0.00 6,854.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,300	5,146.2 5,200.0 5,300.0 5,400.0	5.00 4.19 2.69 1.19	119.61 119.61	5,185.6 5,285.5	-164.9 -167.9	290.2 295.4	164.7 167.7	1.50 1.50	-1.50 -1.50	0.00 0.00
5,500.0 0.00 0.00 5,485.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,600.0 0.00 0.00 5,585.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,700.0 0.00 0.00 0.00 5,685.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,800.0 0.00 0.00 5,785.4 -170.0 299.1 169.7 0.00 0.00 0.00 5,900.0 0.00 0.00 5,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,000.0 0.00 0.00 6,085.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,200.0 0.00 0.00 6,185.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,300.0 0.00 0.00 6,285.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,500.0 </td <td></td> <td></td> <td>0.00</td> <td>E 46E 0</td> <td>170.0</td> <td>200.1</td> <td>160.7</td> <td>1.50</td> <td>1.50</td> <td>150.27</td>			0.00	E 46E 0	170.0	200.1	160.7	1.50	1.50	150.27
6,000.0 0.00 0.00 5,985.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,100.0 0.00 0.00 6,200.0 0.00 0.00 6,285.4 -170.0 299.1 169.7 0.00 0.00 0.00 0.00 6,300.0 0.00 0.00 6,285.4 -170.0 299.1 169.7 0.00 0.00 0.00 0.00 6,400.0 0.00 0.00 6,385.4 -170.0 299.1 169.7 0.00 0.00 0.00 0.00 6,500.0 0.00 0.00 6,385.4 -170.0 299.1 169.7 0.00 0.00 0.00 0.00 6,500.0 0.00 0.00 6,585.4 -170.0 299.1 169.7 0.00 0.00 0.00 0.00 0.00 6,500.0 0.00 0.00 6,585.4 -170.0 299.1 169.7 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5,500.0 5,600.0 5,700.0 5,800.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,485.4 5,585.4 5,685.4 5,785.4	-170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,600.0 0.00 0.00 6,585.4 -170.0 299.1 169.7 0.00 0.00 0.00 BYCN 6,636.6 0.00 0.00 6,622.0 -170.0 299.1 169.7 0.00 0.00 0.00 6,700.0 0.00 0.00 6,685.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,800.0 0.00 0.00 6,785.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,900.0 0.00 0.00 6,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,000.0 0.00 0.00 6,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,100.0 0.00 0.00 7,085.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,200.0 0.00 0.00 7,185.4 -170.0 299.1 169.7 0.00 0.00 0.00	6,000.0 6,100.0 6,200.0 6,300.0	0.00 0.00 0.00	0.00 0.00 0.00	6,085.4 6,185.4 6,285.4	-170.0 -170.0 -170.0	299.1 299.1 299.1	169.7 169.7 169.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,636.6 0.00 0.00 6,622.0 -170.0 299.1 169.7 0.00 0.00 0.00 6,700.0 0.00 0.00 6,685.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,800.0 0.00 0.00 6,785.4 -170.0 299.1 169.7 0.00 0.00 0.00 6,900.0 0.00 0.00 6,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,000.0 0.00 0.00 6,985.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,100.0 0.00 0.00 7,085.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,200.0 0.00 0.00 7,185.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,300.0 0.00 0.00 7,285.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,500.0 0.00 0.00 7,385.4 -170.0 299.1 169.7 0.00 0.00										
6,900.0 0.00 0.00 6,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,000.0 0.00 0.00 7,000.0 0.00 0.0	6,636.6 6,700.0	0.00	0.00	6,685.4	-170.0	299.1	169.7	0.00	0.00	0.00
7,500.0 0.00 0.00 7,485.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,600.0 0.00 0.00 7,585.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,700.0 0.00 0.00 7,685.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,800.0 0.00 0.00 7,785.4 -170.0 299.1 169.7 0.00 0.00 0.00 7,900.0 0.00 0.00 7,885.4 -170.0 299.1 169.7 0.00 0.00 0.00 BSPG 7,979.6 0.00 0.00 7,965.0 -170.0 299.1 169.7 0.00 0.00 0.00	7,000.0 7,100.0 7,200.0	0.00 0.00 0.00	0.00 0.00 0.00	6,985.4 7,085.4 7,185.4	-170.0 -170.0 -170.0	299.1 299.1 299.1	169.7 169.7 169.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
BSPG 7,979.6 0.00 0.00 7,965.0 -170.0 299.1 169.7 0.00 0.00 0.00	7,500.0 7,600.0 7,700.0	0.00 0.00 0.00	0.00 0.00 0.00	7,485.4 7,585.4 7,685.4	-170.0 -170.0 -170.0	299.1 299.1 299.1	169.7 169.7 169.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,979.6 0.00 0.00 7,965.0 -170.0 299.1 169.7 0.00 0.00 0.00		0.00	0.00	7,885.4	-170.0	299.1	169.7	0.00	0.00	0.00
BSPG_AVLN_SS	7,979.6		0.00	7,965.0	-170.0	299.1	169.7	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db

XTO ENERGY, INC. Company: Project: Eddy County, NM

Site: Poker Lake Unit 25 BD Pad Well: Poker Lake Unit 25 BD #128H

Wellbore: Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

velibor Design:		Design #1								
Planne	d Survey									
l	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)
	7,998.6 8,000.0 BSPG_U_A	0.00 0.00	0.00 0.00	7,984.0 7,985.4	-170.0 -170.0	299.1 299.1	169.7 169.7	0.00 0.00	0.00 0.00	0.00 0.00
	8,013.6	0.00	0.00	7,999.0	-170.0	299.1	169.7	0.00	0.00	0.00
	8,100.0 8,200.0 8,300.0 8,400.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8,085.4 8,185.4 8,285.4 8,385.4	-170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	8,410.6	0.00	0.00	8,396.0	-170.0	299.1	169.7	0.00	0.00	0.00
	8,500.0 8,600.0 8,700.0 8,800.0 8,900.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8,485.4 8,585.4 8,685.4 8,785.4 8,885.4	-170.0 -170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7 169.7	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
	BSPG1									
	8,958.6 9,000.0 9,100.0 9,200.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8,944.0 8,985.4 9,085.4 9,185.4	-170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	BSPG2_LN		0.00	0.004.0	470.0	000.4	400 7	0.00	0.00	0.00
	9,295.6	0.00	0.00	9,281.0	-170.0	299.1	169.7	0.00	0.00	0.00
	9,300.0 9,400.0 9,500.0 9,600.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9,285.4 9,385.4 9,485.4 9,585.4	-170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	BSPG2 9,662.6	0.00	0.00	9,648.0	-170.0	299.1	169.7	0.00	0.00	0.00
	9,700.0 9,800.0 9,900.0 10,000.0 BSPG3 LN	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,685.4 9,785.4 9,885.4 9,985.4	-170.0 -170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7	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
	10,082.6	0.00	0.00	10,068.0	-170.0	299.1	169.7	0.00	0.00	0.00
	10,100.0 10,200.0 10,300.0 10,400.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	10,085.4 10,185.4 10,285.4 10,385.4	-170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	BSPG_HR		0.00	40.400.0	470.0	000.4	400 7	0.00	0.00	0.00
	10,450.6 10,500.0 10,600.0 10,700.0 10,800.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10,436.0 10,485.4 10,585.4 10,685.4 10,785.4	-170.0 -170.0 -170.0 -170.0 -170.0	299.1 299.1 299.1 299.1 299.1	169.7 169.7 169.7 169.7 169.7	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
	Build 10°/1			10.5== -	,					
	10,869.6	0.00	0.00	10,855.0	-170.0	299.1	169.7	0.00	0.00	0.00
	10,900.0 BSPG3	3.04	180.05	10,885.4	-170.8	299.1	170.5	10.00	10.00	0.00
	10,919.7 10,950.0 11,000.0 11,050.0	5.01 8.04 13.04 18.04	180.05 180.05 180.05 180.05	10,905.0 10,935.1 10,984.3 11,032.4	-172.2 -175.6 -184.8 -198.2	299.1 299.1 299.1 299.1	171.9 175.4 184.5 197.9	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
	11,100.0	23.04	180.05	11,079.2	-215.7	299.1	215.4	10.00	10.00	0.00





Database: EDM 5000.1 Single User Db

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Poker Lake Unit 25 Bl

Site: Poker Lake Unit 25 BD Pad
Well: Poker Lake Unit 25 BD #128H

Wellbore: Wellbore #1
Design: Design #1

14,700.0

14,800.0

14,900.0

90.00

90.00

90.00

180.05

180.05

180.05

11,428.0

11,428.0

11,428.0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

Minimum Curvature

esign:	Design #1								
anned Survey									
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)
11,150.0	28.04	180.05	11,124.3	-237.3	299.0	237.0	10.00	10.00	0.00
11,200.0	33.04	180.05	11,167.4	-262.7	299.0	262.4	10.00	10.00	0.00
11,250.0	38.04	180.05	11,208.1	-291.7	299.0	291.4	10.00	10.00	0.00
11,300.0 WFMP	43.04	180.05	11,246.0	-324.2	299.0	323.9	10.00	10.00	0.00
11,327.9 11,350.0 11,400.0 WFMP_X	45.83 48.04 53.04	180.05 180.05 180.05	11,266.0 11,281.1 11,312.8	-343.8 -359.9 -398.5	298.9 298.9 298.9	343.5 359.6 398.2	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
11,435.0	56.54	180.05	11,333.0	-427.1	298.9	426.8	10.00	10.00	0.00
11,450.0	58.04	180.05	11,341.1	-439.7	298.9	439.4	10.00	10.00	0.00
11,500.0	63.04	180.05	11,365.7	-483.2	298.8	482.9	10.00	10.00	0.00
11,550.0	68.04	180.05	11,386.4	-528.7	298.8	528.4	10.00	10.00	0.00
11,600.0	73.04	180.05	11,403.0	-575.8	298.7	575.6	10.00	10.00	0.00
11,650.0	78.04	180.05	11,415.5	-624.2	298.7	624.0	10.00	10.00	0.00
WFMP_Y 11,652.3	78.27	180.05	11,416.0	-626.5	298.7	626.3	10.00	10.00	0.00
11,700.0	83.04	180.05	11,423.7	-673.5	298.6	673.3	10.00	10.00	0.00
11,750.0	88.04	180.05	11,427.6	-723.4	298.6	723.1	10.00	10.00	0.00
	.00° Inc. / 180.		ĺ						
11,769.6	90.00	180.05	11,428.0	-743.0	298.6	742.7	10.00	10.00	0.00
11,800.0	90.00	180.05	11,428.0	-773.4	298.5	773.1	0.00	0.00	0.00
11,900.0	90.00	180.05	11,428.0	-873.4	298.5	873.1	0.00	0.00	0.00
12,000.0	90.00	180.05	11,428.0	-973.4	298.4	973.1	0.00	0.00	0.00
12,100.0	90.00	180.05	11,428.0	-1,073.4	298.3	1,073.1	0.00	0.00	0.00
12,200.0	90.00	180.05	11,428.0	-1,173.4	298.2	1,173.1	0.00	0.00	0.00
12,300.0	90.00	180.05	11,428.0	-1,273.4	298.1	1,273.1	0.00	0.00	0.00
12,400.0	90.00	180.05	11,428.0	-1,373.4	298.0	1,373.1	0.00	0.00	0.00
12,500.0	90.00	180.05	11,428.0	-1,473.4	297.9	1,473.1	0.00	0.00	0.00
12,600.0	90.00	180.05	11,428.0	-1,573.4	297.8	1,573.1	0.00	0.00	0.00
12,700.0	90.00	180.05	11,428.0	-1,673.4	297.7	1,673.1	0.00	0.00	0.00
12,800.0	90.00	180.05	11,428.0	-1,773.4	297.6	1,773.1	0.00	0.00	0.00
12,900.0	90.00	180.05	11,428.0	-1,873.4	297.5	1,873.1	0.00	0.00	0.00
13,000.0	90.00	180.05	11,428.0	-1,973.4	297.4	1,973.1	0.00	0.00	0.00
13,100.0	90.00	180.05	11,428.0	-2,073.4	297.4	2,073.1	0.00	0.00	0.00
13,200.0	90.00	180.05	11,428.0	-2,173.4	297.3	2,173.1	0.00	0.00	0.00
13,300.0	90.00	180.05	11,428.0	-2,273.4	297.2	2,273.1	0.00	0.00	0.00
13,400.0	90.00	180.05	11,428.0	-2,373.4	297.1	2,373.1	0.00	0.00	0.00
13,500.0	90.00	180.05	11,428.0	-2,473.4	297.0	2,473.1	0.00	0.00	0.00
13,600.0	90.00	180.05	11,428.0	-2,573.4	296.9	2,573.1	0.00	0.00	0.00
13,700.0	90.00	180.05	11,428.0	-2,673.4	296.8	2,673.1	0.00	0.00	0.00
13,800.0	90.00	180.05	11,428.0	-2,773.4	296.7	2,773.1	0.00	0.00	0.00
13,900.0	90.00	180.05	11,428.0	-2,873.4	296.6	2,873.1	0.00	0.00	0.00
14,000.0	90.00	180.05	11,428.0	-2,973.4	296.5	2,973.1	0.00	0.00	0.00
14,100.0	90.00	180.05	11,428.0	-3,073.4	296.4	3,073.1	0.00	0.00	0.00
14,200.0	90.00	180.05	11,428.0	-3,173.4	296.3	3,173.1	0.00	0.00	0.00
14,300.0	90.00	180.05	11,428.0	-3,273.4	296.3	3,273.1	0.00	0.00	0.00
14,400.0	90.00	180.05	11,428.0	-3,373.4	296.2	3,373.1	0.00	0.00	0.00
14,500.0 14,600.0 14,700.0	90.00 90.00 90.00	180.05 180.05 180.05	11,428.0 11,428.0 11,428.0	-3,473.4 -3,573.4 -3,673.4	296.1 296.0 295.9	3,473.1 3,573.1 3,673.1	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

295.9

295.8

295.7

3,673.1

3,773.1

3,873.1

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

-3,673.4

-3,773.4

-3,873.4





Database: EDM 5000.1 Single User Db XTO ENERGY, INC.

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Poker Lake Unit 25 BD Pad

Well: Poker Lake Unit 25 BD #128H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

Design:	Design #1								
Planned Survey									
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)
15,000.0 15,100.0 15,200.0 15,300.0 15,400.0	90.00 90.00 90.00 90.00 90.00	180.05 180.05 180.05 180.05 180.05	11,428.0 11,428.0 11,428.0 11,428.0 11,428.0	-3,973.4 -4,073.4 -4,173.4 -4,273.4 -4,373.4	295.6 295.5 295.4 295.3 295.2	3,973.1 4,073.1 4,173.1 4,273.1 4,373.1	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
15,500.0	90.00	180.05	11,428.0	-4,473.4	295.1	4,473.1	0.00	0.00	0.00
15,600.0	90.00	180.05	11,428.0	-4,573.4	295.1	4,573.1	0.00	0.00	0.00
15,700.0	90.00	180.05	11,428.0	-4,673.4	295.0	4,673.1	0.00	0.00	0.00
15,800.0	90.00	180.05	11,428.0	-4,773.4	294.9	4,773.1	0.00	0.00	0.00
15,900.0	90.00	180.05	11,428.0	-4,873.4	294.8	4,873.1	0.00	0.00	0.00
16,000.0	90.00	180.05	11,428.0	-4,973.4	294.7	4,973.1	0.00	0.00	0.00
16,100.0	90.00	180.05	11,428.0	-5,073.4	294.6	5,073.1	0.00	0.00	0.00
16,200.0	90.00	180.05	11,428.0	-5,173.4	294.5	5,173.1	0.00	0.00	0.00
16,300.0	90.00	180.05	11,428.0	-5,273.4	294.4	5,273.1	0.00	0.00	0.00
16,400.0	90.00	180.05	11,428.0	-5,373.4	294.3	5,373.1	0.00	0.00	0.00
16,500.0	90.00	180.05	11,428.0	-5,473.4	294.2	5,473.1	0.00	0.00	0.00
16,600.0	90.00	180.05	11,428.0	-5,573.4	294.1	5,573.1	0.00	0.00	0.00
16,700.0	90.00	180.05	11,428.0	-5,673.4	294.0	5,673.1	0.00	0.00	0.00
16,800.0	90.00	180.05	11,428.0	-5,773.4	294.0	5,773.1	0.00	0.00	0.00
16,900.0	90.00	180.05	11,428.0	-5,873.4	293.9	5,873.1	0.00	0.00	0.00
17,000.0	90.00	180.05	11,428.0	-5,973.4	293.8	5,973.1	0.00	0.00	0.00
17,100.0	90.00	180.05	11,428.0	-6,073.4	293.7	6,073.1	0.00	0.00	0.00
17,200.0	90.00	180.05	11,428.0	-6,173.4	293.6	6,173.1	0.00	0.00	0.00
17,300.0	90.00	180.05	11,428.0	-6,273.4	293.5	6,273.1	0.00	0.00	0.00
17,400.0	90.00	180.05	11,428.0	-6,373.4	293.4	6,373.1	0.00	0.00	0.00
17,500.0	90.00	180.05	11,428.0	-6,473.4	293.3	6,473.1	0.00	0.00	0.00
17,600.0	90.00	180.05	11,428.0	-6,573.4	293.2	6,573.1	0.00	0.00	0.00
17,700.0	90.00	180.05	11,428.0	-6,673.4	293.1	6,673.1	0.00	0.00	0.00
17,800.0	90.00	180.05	11,428.0	-6,773.4	293.0	6,773.1	0.00	0.00	0.00
17,900.0	90.00	180.05	11,428.0	-6,873.4	292.9	6,873.1	0.00	0.00	0.00
18,000.0	90.00	180.05	11,428.0	-6,973.4	292.9	6,973.1	0.00	0.00	0.00
18,100.0	90.00	180.05	11,428.0	-7,073.4	292.8	7,073.1	0.00	0.00	0.00
18,200.0	90.00	180.05	11,428.0	-7,173.4	292.7	7,173.1	0.00	0.00	0.00
18,300.0	90.00	180.05	11,428.0	-7,273.4	292.6	7,273.1	0.00	0.00	0.00
18,400.0	90.00	180.05	11,428.0	-7,373.4	292.5	7,373.1	0.00	0.00	0.00
18,500.0	90.00	180.05	11,428.0	-7,473.4	292.4	7,473.1	0.00	0.00	0.00
18,600.0	90.00	180.05	11,428.0	-7,573.4	292.3	7,573.1	0.00	0.00	0.00
18,700.0	90.00	180.05	11,428.0	-7,673.4	292.2	7,673.1	0.00	0.00	0.00
18,800.0	90.00	180.05	11,428.0	-7,773.4	292.1	7,773.1	0.00	0.00	0.00
18,900.0	90.00	180.05	11,428.0	-7,873.4	292.0	7,873.1	0.00	0.00	0.00
19,000.0	90.00	180.05	11,428.0	-7,973.4	291.9	7,973.1	0.00	0.00	0.00
19,100.0	90.00	180.05	11,428.0	-8,073.4	291.8	8,073.1	0.00	0.00	0.00
19,148.0	8.0' MD / 1142 90.00	180.05	11,428.0	-8,121.4	291.8	8,121.1	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db

Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Poker Lake Unit 25 BD Pad

Well: Poker Lake Unit 25 BD #128H
Wellbore: Wellbore #1

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Poker Lake Unit 25 BD #128H RKB @ 3391.0usft (Ensign #101) RKB @ 3391.0usft (Ensign #101)

Grid

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
PBHL - PLU 25 BD 12 - plan hits target o - Point		0.00	11,428.0	-8,121.4	291.8	393,093.00	656,901.10	32° 4' 46.976 N	103° 49' 36.322 W
LTP - PLU 25 BD 128 - plan misses targ - Point			11,428.0 9018.0usft	-7,991.4 MD (11428.0	291.8 TVD, -7991	393,223.00 .4 N, 291.9 E)	656,901.10	32° 4' 48.263 N	103° 49' 36.315 W
FTP - PLU 25 BD 128 - plan misses targ - Point			11,428.0 1721.9usft	-695.2 MD (11426.0	298.6 TVD, -695.4	400,519.20 N, 298.6 E)	656,907.90	32° 6' 0.467 N	103° 49' 35.838 W

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	906.0	906.0	RSLR			
	991.0	991.0	Magenta Dolomite			
	1,157.0	1,157.0	Salado (Top Salt)			
	2,481.0	2,477.0	CSTL			
	3,940.6	3,931.0	Salt_B			
	4,089.2	4,079.0	DLWR			
	5,019.7	5,006.0	CRCN			
	6,636.6	6,622.0	BYCN			
	7,979.6	7,965.0	BSPG			
	7,998.6	7,984.0	BSPG_AVLN_SS			
	8,013.6	7,999.0	BSPG_U_AVLN_SH			
	8,410.6	8,396.0	BSPG_L_AVLN_SH			
	8,958.6	8,944.0	BSPG1			
	9,295.6	9,281.0	BSPG2_LM			
	9,662.6	9,648.0	BSPG2			
	10,082.6	10,068.0	BSPG3_LM			
	10,450.6	10,436.0	BSPG_HRKY			
	10,919.7	10,905.0	BSPG3			
	11,327.9	11,266.0	WFMP			
	11,435.0	11,333.0	WFMP_X			
	11,652.3	11,416.0	WFMP_Y			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment	
1,200.0	1,200.0	0.0	0.0	Build 1.5°/100'	
1,533.4	1,533.0	-7.2	12.6	EOB @ 5.00° Inc. / 119.61° Azm	
5,146.2	5,132.0	-162.8	286.5	Drop 1.5°/100'	
5,479.6	5,465.0	-170.0	299.1	EOD @ Vert.	
10,869.6	10,855.0	-170.0	299.1	Build 10°/100'	
11,769.6	11,428.0	-743.0	298.6	EOB @ 90.00° Inc. / 180.05° Azm	
19,148.0	11,428.0	-8,121.4	291.8	TD @ 19148.0' MD / 11428.0' TVD	

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.

	Pressure Test—Low	Pressure Test-	-High Pressure ^{ac}
Component to be Pressure Tested	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 chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
	during the evaluation period. The p	oressure shall not decrease below the	
	from one wellhead to another within when the integrity of a pressure sea	n the 21 days, pressure testing is req	uired for pressure-containing an

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

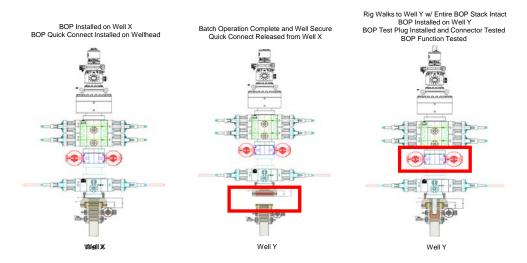
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the OOGO No.2.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior
 to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



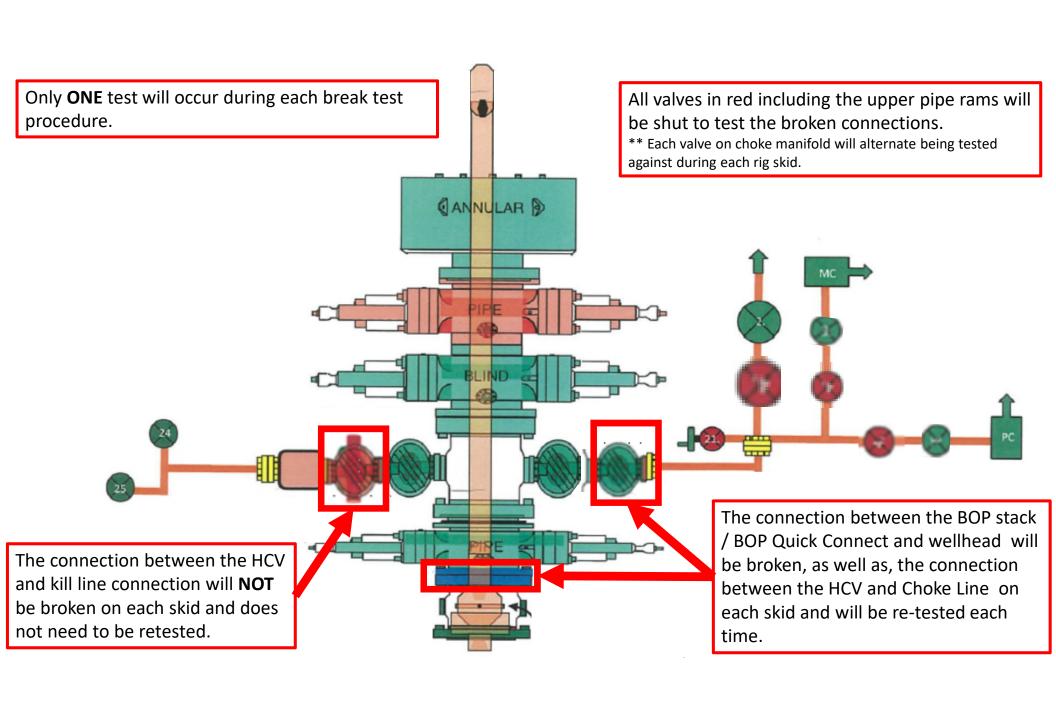
Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

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

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1. After a full BOP test is conducted on the first well on the pad.
- 2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
- 3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4. Full BOP test will be required prior to drilling the production hole.



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

Description of Operations:

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