SUNDRY	UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAG (NOTICES AND REPOR his form for proposals to cell. Use form 3160-3 (APL	ITERIOR Gement R TS ON WE	ELLS	Rec'd 05/11		O. 1004-0137 anuary 31, 2018
SUBMIT IN	I TRIPLICATE - Other inst	ructions on	page 2		7. If Unit or CA/Agre 891000303X	ement, Name and/or No.
1. Type of Well □ Oil Well ⊠ Gas Well □ O	Other				8. Well Name and No. POKER LAKE UN	NT 17 TWR 123H
2. Name of Operator XTO PERMIAN OPERATING	Contact: G LLC E-Mail: kelly_kardo	KELLY KARE s@xtoenergy.	DOS com		 9. API Well No. 30-015-45926-0 	00-X1
3a. Address 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	BLDG 5	3b. Phone No Ph: 432-62	. (include area code) 0-4374		10. Field and Pool or PURPLE SAGE	Exploratory Area -WOLFCAMP (GAS)
4. Location of Well <i>(Footage, Sec.,</i>	T., R., M., or Survey Description)				11. County or Parish,	State
Sec 20 T24S R31E NENW 2 32.209396 N Lat, 103.80185	247FNL 2023FWL 7 W Lon				EDDY COUNT	ζ, NM
12. CHECK THE A	APPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
☑ Notice of Intent	□ Acidize	Deej	pen	Product	ion (Start/Resume)	□ Water Shut-Off
_	□ Alter Casing	🗖 Hyd	raulic Fracturing	🗖 Reclam	ation	Well Integrity
Subsequent Report	Casing Repair	□ New	Construction	🗖 Recomp	olete	Other
☐ Final Abandonment Notice	Change PlansConvert to Injection	Plug	and Abandon Back	□ Tempor □ Water I	arily Abandon Disposal	Change to Original A PD
13. Describe Proposed or Completed C If the proposal is to deepen direction Attach the Bond under which the w following completion of the involv testing has been completed. Final determined that the site is ready for	nally or recomplete horizontally, g ork will be performed or provide t ed operations. If the operation res Abandonment Notices must be file	give subsurface the Bond No. or ults in a multipl	locations and measure file with BLM/BIA e completion or reco	red and true ve . Required sul mpletion in a 1	ertical depths of all pertir prosequent reports must be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 must be filed once
XTO Permian Operating, LL	C requests permission to ma	ake the follow	ving changes to	the original	APD:	
Change BHL from 2440FNL	& 1655FWL in Sec. 32-T24	S-R31E to 2	20FSL & 1650FV	VL in Sec. 2	29-T24S-R31E.	
Change the casing/cement of 4-string contingency design.	lesign per the attached drilli	ng program.	3-string primary	design and		
XTO requests the following	variances:					
XTO requests to use a 5000 requested to test the 5M anr	psi annular BOP with a 10, ular to 70% of working pres	000 psi BOP ssure at 3500	stack. Also a va psi	ariance is		
14. I hereby certify that the foregoing	Electronic Submission #5 For XTO PERMIA	AN OPERATII	IG LLC, sent to tl	he Carlsbad	-	
Co Name(Printed/Typed) KELLY	ommitted to AFMSS for proce	ssing by PRI			(20PP2562SE) ORDINATOR	
Signature (Electronic	e Submission)		Date 04/30/20	020		
	THIS SPACE FO	R FEDERA			SE	
Approved By(BLM Approver No Conditions of approval, if any, are attack			Title			Date 05/11/2020
certify that the applicant holds legal or e which would entitle the applicant to con	quitable title to those rights in the duct operations thereon.	subject lease	Office Carlsbac			
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious or frauduler	5 U.S.C. Section 1212, make it a c t statements or representations as	to any matter wi	rson knowingly and ithin its jurisdiction.	willfully to ma	ake to any department or	agency of the United

 $^{\prime\prime}$ ** BLM REVISED **

Additional data for EC transaction #513501 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 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.

Attachments: Updated C102 & Supplement Casing/Cement Design Multibowl Diagram Directional Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #513501

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMLC061705B	NMLC061705B
Agreement:	NMNM71016X	891000303X (NMNM71016X)
Operator:	XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com
	Ph: 432-620-4374	Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com
	Ph: 432-620-4374	Ph: 432-620-4374
Location: State: County:	NM EDDY	NM EDDY
Field/Pool: Well/Facility:	PURPLE SAGE WOLFCAMP POKER LAKE UNIT 17 TWR 123H Sec 20 T24S R31E Mer NMP NENW 247FNL 2023FWL	PURPLE SAGE-WOLFCAMP (GAS) POKER LAKE UNIT 17 TWR 123H Sec 20 T24S R31E NENW 247FNL 2023FWL 32.209396 N Lat, 103.801857 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC.
LEASE NO.:	NMLC-0061705B
WELL NAME & NO.:	Poker Lake Unit 17 TWR 123H
SURFACE HOLE FOOTAGE:	0247' FNL & 2023' FWL
BOTTOM HOLE FOOTAGE	0220' FSL & 1650' FWL Sec. 29, T. 24 S., R 31 E.
LOCATION:	Section 20, T. 24 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Offline cementing and BOP testing variance is NOT approved.

Commercial Well Determination

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

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.

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. 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.
- 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.

- 3. 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 wells.
- 4. 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 is located, this does not include the dog house or stairway area.
- 5. 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.

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

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. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

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.

- 1. The 13-3/8 inch surface casing shall be set at approximately 870 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet 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 is to include the lead cement slurry.

- 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.

9-5/8'' Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing (if contingency is used set at 4120 feet) is:

DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 21% - Additional cement may be required.

Contingency Casing

The **9-5/8**" string shall be set at **4120** feet

4. The minimum required fill of cement behind the 7 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

5. The minimum required fill of cement behind the 4-1/2 inch production liner is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 19% - Additional cement may be required.

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.

C. 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 53.
- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi.
 - 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. Operator shall perform the 9-5/8" and 7" (if contingency used) casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. 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**.
 - 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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 05112020

District I

 1625 N. French Dr., Hobbs, NM 88240

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

 <u>District III</u>

 811 S. First St., Artesia, NM 88210

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

 <u>District III</u>

 1000 Rio Brazos Road, Aztec, NM 87410

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

 <u>District IV</u>

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

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

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

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

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	r		² Pool Code	Code ³ Pool Name						
	30-015-4	5926	98220		PURPLE SAGE; WOLFCAMP						
⁴ Property (Code				⁵ Property	Name			⁶ Well Number		
				I	POKER LAKE U	NIT 17 TWR			123H		
⁷ OGRID I	No.				⁸ Operator	Name				⁹ Elevation	
373075	5			XT	D PERMIAN OP	ERATING, LLC.				3,499'	
	¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line	County	
С	20	24 S	31 E		247	NORTH	2,023	WE	WEST EDDY		
			¹¹ Bot	ttom Hol	e Location I	f Different Fron	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line	County	
Ν	29	24 S	31 E 220 SOUTH 1,650 WES					ST	EDDY		
¹² Dedicated Acres	¹³ Joint of	r Infill ¹⁴ C	Consolidation	Code ¹⁵ Or	der No.						
640											

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

16 SEC. 18 F.T.P. SEC. 17 18 F.T.P. A A SEC. 17 1650 A S.H.L. S.H.L. GRID AZ.=257'03'34" HORIZ. DIST.=381.62' SEC. 20 SEC. 20 T24S R31E	GEODETIC COORDINATES NAD 27 NME GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION SURFACE LOCATION Y = 440,259.6 Y = 440,318.4 X = 664,531.1 X = 705,715.2 LAT.= 32.209272'N LAT.= 32.209395'N LONG.= 103.801370'W LONG.= 103.801854'W FIRST TAKE POINT FIRST TAKE POINT NAD 27 NME NAD 83 NME Y = 440,174.1 Y = 440,232.9 X = 664,159.1 X = 705,343.2 LAT.= 32.20942'N LAT.= 32.209165'N LONG.= 103.802574'W LONG.= 103.803058'W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
$\begin{array}{c c} \underline{SEC.} \\ 19 \\ - & - & - & - & - & - & - & - & - & -$	$\begin{array}{c} \text{CORNER COORDINATES TABLE} \\ \text{NAD 27 NME} \\ \text{A} & - Y = 440,510.1 \text{ N}, X = 665,151.3 \text{ E} \\ \text{B} & - Y = 440,502.2 \text{ N}, X = 663,828.8 \text{ E} \\ \text{C} & - Y = 437,870.4 \text{ N}, X = 663,848.8 \text{ E} \\ \text{D} & - Y = 437,861.1 \text{ N}, X = 663,848.8 \text{ E} \\ \text{E} & - Y = 435,229.8 \text{ N}, X = 665,185.0 \text{ E} \\ \text{F} & - Y = 435,221.6 \text{ N}, X = 665,202.3 \text{ E} \\ \text{G} & - Y = 432,588.8 \text{ N}, X = 663,202.3 \text{ E} \\ \text{H} & - Y = 432,580.7 \text{ N}, X = 663,881.4 \text{ E} \\ \text{I} & - Y = 429,947.7 \text{ N}, X = 663,898.8 \text{ E} \\ \text{J} & - Y = 429,939.4 \text{ N}, X = 663,898.8 \text{ E} \\ \end{array}$	Kelly Kardos 4-14-20 Signature Date Kelly Kardos Printed Name kelly_kardos@xtoenergy.com E-mail Address
GRID AZ.=179'36'42" HORIZ. DIST.=10013.20' BIST.=10013.20' - G SEC. 30 T24S	$\begin{array}{c} \text{CORNER COORDINATES TABLE} \\ \text{NAD 83 NME} \\ \text{A} & - Y = 440,568.9 \text{ N}, \text{X} = 706,335.3 \text{ E} \\ \text{B} & - Y = 440,561.0 \text{ N}, \text{X} = 705,012.8 \text{ E} \\ \text{C} & - Y = 437,929.1 \text{ N}, \text{X} = 706,352.2 \text{ E} \\ \text{D} & - Y = 437,919.8 \text{ N}, \text{X} = 705,032.9 \text{ E} \\ \text{E} & - Y = 435,288.4 \text{ N}, \text{X} = 706,369.2 \text{ E} \\ \text{F} & - Y = 435,280.3 \text{ N}, \text{X} = 705,047.7 \text{ E} \\ \text{G} & - Y = 432,647.4 \text{ N}, \text{X} = 705,085.7 \text{ E} \\ \text{H} & - Y = 432,639.3 \text{ N}, \text{X} = 705,065.7 \text{ E} \\ \text{H} & - Y = 430,006.2 \text{ N}, \text{X} = 705,083.2 \text{ E} \\ \text{J} & - Y = 429,997.9 \text{ N}, \text{X} = 705,083.2 \text{ E} \\ \end{array}$	18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 03-12-2020
1650' ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	LAST TAKE POINT LAST TAKE POINT LAST TAKE POINT NAD 27 NME NAD 83 NME Y= 430,271.5 Y= 430,330.0 X= 664,226.0 X= 705,410.4 LAT.= 32.181819'N LAT.= 32.181943'N LONG.= 103.802516'W LONG.= 103.802999'W BOTTOM HOLE LOCATION BOTTOM HOLE LOCATION NAD 27 NME NAD 83 NME Y= 430,161.5 Y= 430,220.0 X= 664,226.7 X= 705,411.1 LAT.= 32,18151'N LAT.= 32,181641'N LONG.= 103.802516'W LONG.= 103.802998'W	03-12-2020 Date of Survey Signatue and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JC 2018010205

Intent X As Drilled		
API # 30-015-45926		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Poker Lake Unit 17 TWR	Well Number 123H

Kick Off Point (KOP)

UL C	Section 20	Township 24S	Range 31E	Lot	Feet 247	From N/S NORTH	Feet 2023	From E/W West	County EDDY
	Latitude 32.209395			Longitude -103.801	854			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	20	24S	31E		330	NORTH	1650	WEST	EDDY
	Latitude 32.209165			Longitude -103.803	058			NAD 83	

Last Take Point (LTP)

ul N	Section 29	Township 24S	Range 31E	Lot	Feet 330	From N/S South	Feet 1650	From E/W West	County EDDY
Latitude					Longitud	le		NAD	
32.181943			-103.8	-103.802999			83		

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

Is this well an infill well?

Ν	

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

Operator Name: Property Name: Well Number XTO PERMIAN OPERATING, LLC	API #			
	•	ERATING, LLC	Property Name:	Well Number

KZ 06/29/2018

Poker Lake Unit 17 TWR 123H Projected TD: 22895' MD / 12529' TVD SHL: 247' FSL & 2023' FWL , Section 20, T24S, R31E BHL: 220' FSL & 1650' FWL , Section 29, T24S, R31E Eddy County, NM

Casing Design 3-String (Primary)

The surface fresh water sands will be protected by setting 13-3/8 inch casing @ 870' (59' above the salt) and circulating cement back to surface. A 12-1/4 inch vertical hole will be drilled to 11742' and 9-5/8 inch casing ran and cemented 200' into the 13-3/8 inch casing. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 870'	13-3/8"	68	BTC	J-55	New	1.18	4.95	18.07
12-1/4"	0' - 4600'	9-5/8"	40	BTC	HCP-110	New	1.31	3.65	6.85
12-1/4"	4600' - 11742'	9-5/8"	40	BTC	HCL-80	New	0.95	1.31	1.95
8-3/4-8-1/2"	0' – 22895'	5-1/2"	20	BTC	P-110	New	1.03	1.26	1.96

XTO requests to not utilize centralizers in the curve and lateral

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

SF burst at surface but will be crossed over to HCP-110 at 4600'. The split string design passes our internal requirments.

9-5/8" 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

WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

- A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 5M top flange
- B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 10M 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 9-5/8" casing per Onshore Order 2.
 - Wellhead manufacturer representative may not be present for BOP test plug installation

Cement Program 3-String (Primary)

Surface Casing:

Lead: 420 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 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:

ECP/DV Tool to be set at 4779'

1st Stage

Lead: 1080 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 3.45 ft3/sx, 21.14 gal/sx water) Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.32 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 500 psi 24 hr = 1151 psi

2nd Stage

Lead: 690 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 3.45 ft3/sx, 21.14 gal/sx water) Tail: 450 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.32 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 500 psi 24 hr = 1151 psi

Production Casing:

Tail: 2610 sxs Ve	Tail: 2610 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft3/sx, 8.38 gal/sx water)							
Compressives:	12-hr =	1375 psi	24 hr = 2285 psi					

Mud Circulation Program 3-String (Primary)

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 870'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
870' to 11742'	12-1/4"	FW / Cut Brine / Direct Emulsion	8.5-9.5	29-32	NC - 20
11742' to 22895'	8-3/4-8-1/2"	FW / Cut Brine / Polymer/ OBM	13.2-14	32-50	NC - 20

XTO requests the option to set the 9-5/8 inch casing early and swap to a 4-string casing design if deemed necessary. In this scenario, the salt will be isolated by setting 9-5/8 inch casing at 5280' and circulating cement to surface. An 8-3/4 inch vertical hole will be drilled and 7 inch casing run and cemented 200' into the 9-5/8 inch casing. A 6 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 250' into the 7 inch casing shoe. In the event this option has to be excercised due to wellbore conditions, the BLM will be notified. In this scenario, the casing design will be as follows:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 870'	13-3/8"	68	BTC	J-55	New	2.63	4.95	18.07
12-1/4"	0′ – 5280'	9-5/8"	40	BTC	J-55	New	1.36	1.93	2.98
8-3/4"	0' - 11742'	7"	32	BTC	P-110	New	1.04	1.97	2.73
6"	11492' – 22895'	4-1/2"	13.5	BTC	P-110	New	1.04	1.75	1.91

Cement Program 4-String (Contingency)

Surface Casing:

Lead: 420 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 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

1st Intermediate Casing (2 stage):

ECP/DV Tool to be set at 2500'

1st Stage

Lead: 590 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water) Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Stage

Lead: 490 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water) Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing:

Lead: 850 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 1.88 ft3/sx, 9.61 gal/sx water) Tail: 60 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing:

 Tail: 880 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft3/sx, 8.38 gal/sx water)

 Compressives:
 12-hr =
 1375 psi
 24 hr = 2285 psi

Mud Circulation Program 4-String (Contingency)

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 870'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
870' to 5280'	12-1/4"	FW / Cut Brine / Direct Emulsion	8.4-9.5	29-32	NC
5280' to 11742'	8-3/4"	FW / Cut Brine / Direct Emulsion	8.4-9.5	29-32	NC - 20
11742' to 22895'	742' to 22895' 6"		13.2-14	32-50	20'

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

XTO Energy Inc. PLU 17 TWR 123H Projected TD: 22895' MD / 12529' TVD SHL: 247' FSL & 2023' FWL , Section 20, T24S, R31E BHL: 220' FSL & 1650' FWL , Section 29, T24S, R31E Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	549'	Water
Top of Salt	929'	Water
Base of Salt	4059'	Water
Delaware	4279'	Water
Bone Spring	8129'	Water/Oil/Gas
1st Bone Spring Ss	9089'	Water/Oil/Gas
2nd Bone Spring Ss	9899'	Water/Oil/Gas
3rd Bone Spring Ss	11059'	Water/Oil/Gas
Wolfcamp Shale	11479'	Water/Oil/Gas
Wolfcamp A	11629'	Water/Oil/Gas
Wolfcamp B	12029'	Water/Oil/Gas
Wolfcamp D	12429'	Water/Oil/Gas
Target/Land Curve	12529'	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 13-3/8 inch casing @ 870' (59' above the salt) and circulating cement back to surface. A 12-1/4 inch vertical hole will be drilled to 11742' and 9-5/8 inch casing ran and cemented 200' into the 13-3/8 inch casing. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

3. Casing Design

3 String (Primary)

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 870'	13-3/8"	68	BTC	J-55	New	1.18	4.95	18.07
12-1/4"	0' - 4600'	9-5/8"	40	BTC	HCP-110	New	1.31	3.65	6.85
12-1/4"	4600' - 11742'	9-5/8"	40	BTC	HCL-80	New	0.95	1.31	1.95
8-3/4-8-1/2"	0' – 22895'	5-1/2"	20	BTC	P-110	New	1.03	1.26	1.96

XTO requests to not utilize centralizers in the curve and lateral

9-5/8" casing will be split string with HCP-110 run from surface to 4600' & HCL-80 from 4600' to TD. The 9-5/8" casing fails

SF burst at surface but will be crossed over to HCP-110 at 4600'. The split string design passes our internal requirments.

9-5/8" 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

4 String (Contingency)

YTO requests the ontion to set the 0.5/8 inch casing early and ewan to a 4-string casing design if deemed

necessary. In this scenario, the salt will be isolated by setting 9-5/8 inch casing at 5280' and circulating cement to surface. An 8-3/4 inch vertical hole will be drilled and 7 inch casing run and cemented 200' into the 9-5/8 inch casing. A 6 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 250' into the 7 inch casing shoe. In the event this option has to be excercised due to wellbore conditions, the BLM will be notified. In this scenario, the casing design will be as follows:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 870'	13-3/8"	68	BTC	J-55	New	2.63	4.95	18.07
12-1/4"	0' – 5280'	9-5/8"	40	BTC	J-55	New	1.36	1.93	2.98
8-3/4"	0' - 11742'	7"	32	BTC	P-110	New	1.04	1.97	2.73
6"	11492' – 22895'	4-1/2"	13.5	BTC	P-110	New	1.04	1.75	1.91

WELLHEAD:

Permanent Wellhead - GE RSH Multibowl System

A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 10M top flange

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 10M 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 9-5/8" casing per Onshore Order 2.
- Wellhead manufacturer representative may not be present for BOP test plug installation

4. Cement Program

3 String (Primary)

Surface Casing: 13-3/8", 68 New J-55, BTC casing to be set at +/- 870'

Lead: 420 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 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

Top of Cement: Surface

2nd Intermediate Casing (Stage 2): 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 11742' ECP/DV Tool to be set at 4779'

1st Stage

Lead: 1080 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 3.45 ft3/sx, 21.14 gal/sx water)

 Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.32 ft3/sx, 6.39 gal/sx water)

 Compressives:
 12-hr =
 500 psi
 24 hr = 1151 psi

2nd Stage

Lead: 690 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 3.45 ft3/sx, 21.14 gal/sx water)

 Tail: 450 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.32 ft3/sx, 6.39 gal/sx water)

 Compressives:
 12-hr =
 500 psi
 24 hr = 1151 psi

Top of Cement: 200' inside previous casing shoe

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 22895'

Lead: 0 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

 Tail: 2610 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft3/sx, 8.38 gal/sx water)

 Compressives:
 12-hr =
 1375 psi
 24 hr = 2285 psi

Top of Cement: 300' inside previous casing shoe

4 String (Contingency)

Surface Casing: 13-3/8", 68 New J-55, BTC casing to be set at +/- 870'

Lead: 420 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 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

Top of Cement: Surface

1st Intermediate Casing (2 stage): 9-5/8", 40 New J-55, BTC casing to be set at +/- 5280' ECP/DV Tool to be set at 2500'

1st Stage

Lead: 590 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

 Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

2nd Stage

Lead: 490 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

 Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

Top of Cement: Surface

2nd Intermediate Casing: 7", 32 New P-110, BTC casing to be set at +/- 11742'

Lead: 850 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

 Tail: 60 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

Top of Cement: 200' inside previous casing shoe

Production Casing: 4-1/2", 13.5 New P-110, BTC casing to be set at +/- 22895'

 Tail: 880 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft3/sx, 8.38 gal/sx water)

 Compressives:
 12-hr =
 1375 psi
 24 hr = 2285 psi

Top of Cement: Top of liner

5. Pressure Control Equipment

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M 3-Ram BOP. MASP should not exceed 6039 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 50% of the working pressure. When nippling up on the 13-5/8" 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When the 9-5/8" and 7" casing is set, the packoff seals will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

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

6. Proposed Mud Circulation System

3 String (Primary)

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 870'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
870' to 11742'	12-1/4"	FW / Cut Brine / Direct Emulsion	8.5-9.5	29-32	NC - 20
11742' to 22895'	5' 8-3/4-8-1/2" FW / C Brine Polyme OBM		13.2-14	32-50	NC - 20

4 String (Contingency)

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 870'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
870' to 5280'	12-1/4"	FW / Cut Brine / Direct Emulsion	8.4-9.5	29-32	NC
5280' to 11742'	8-3/4"	FW / Cut Brine / Direct Emulsion	8.4-9.5	29-32	NC - 20
11742' to 22895'	б"	FW / Cut Brine / Polymer/ OBM	13.2-14	32-50	20'

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine / oil direct emulsion mud. 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 13-3/8" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below 1st intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 8795 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 40 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.







10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

	8.	-1/2" Production Hole Se 10M psi Requiremen			
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full-opening safety valve & close
- 3. Space out drill string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams (HCR & choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

- 1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



XTO Energy

Eddy County, NM (NAD-27) Poker Lake Unit 17 TWR #123H

OH

Plan: PERMIT v2

Standard Planning Report

07 April, 2020



District I

 1625 N. French Dr., Hobbs, NM 88240

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

 <u>District III</u>

 811 S. First St., Artesia, NM 88210

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

 <u>District III</u>

 1000 Rio Brazos Road, Aztec, NM 87410

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

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number 30-015-	r		² Pool Code			³ Pool Na	me		
⁴ Property (Code				⁵ Property N	Name			6 .	Well Number
				POI	KER LAKE U	NIT 17 TWR			123H	
⁷ OGRID	No.				⁸ Operator I	Name				⁹ Elevation
37307:	5			XTO P	PERMIAN OPE	ERATING, LLC.				3,499'
	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
С	20	24 S	31 E		247	NORTH	2,023	WE	ST	EDDY
			11 Bot	ttom Hole I	Location If	Different Fron	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
Ν	29	24 S	31 E		220	SOUTH	1,650	WE	ST	EDDY
¹² Dedicated Acres	s ¹³ Joint o	r Infill ¹⁴ Co	onsolidation (Code ¹⁵ Order	No.					

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

¹⁶ SEC. 18	F.T.P. 0 5 SEC. 17	GEODETIC COORDINATES NAD 27 NME NAD 83 NME SURFACE LOCATION SURFACE LOCATION Y = 440,259.6 Y = 440,318.4	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete</i>
7823 [;]	S.H.L.	X= 664,531.1 X= 705,715.2 LAT.= 32.209272'N LAT.= 32.20939'N LONG.= 103.801370'W LONG.= 103.801854'W	to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including
	GRID AZ.=257:03'34" HORIZ. DIST.=381.62' SEC. 20 T24S R31E	FIRST TAKE POINT FIRST TAKE POINT NAD 27 NME NAD 83 NME Y= 440,174.1 Y= 440,232.9 X= 664,159.1 X= 705,543.2 LAT.= 32.209042'N LAT.= 32.209165'N LONG.= 103.802574'W LONG.= 103.803058'W	the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
SEC.	DC	CORNER COORDINATES TABLE	
19	330'	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Signature Date Printed Name
		H - Y= 432,580.7 N, X= 663,881.4 E I - Y= 429,947.7 N, X= 665,219.5 E J - Y= 429,939.4 N, X= 663,898.8 E	E-mail Address
SEC. 30	H	$\begin{array}{c} \text{CORNER COORDINATES TABLE} \\ \text{NAD 83 NME} \\ \text{A} & - \ensuremath{Y}^{\text{Y}} = 440,568.9 \ \text{N}, \ensuremath{X}^{\text{Y}} = 705,012.8 \ \text{E} \\ \text{B} & - \ensuremath{Y}^{\text{Y}} = 440,561.0 \ \text{N}, \ensuremath{X}^{\text{Y}} = 705,012.8 \ \text{E} \\ \text{C} & - \ensuremath{Y}^{\text{Y}} = 437,919.8 \ \text{N}, \ensuremath{X}^{\text{Y}} = 706,352.2 \ \text{E} \\ \text{D} & - \ensuremath{Y}^{\text{Y}} = 437,919.8 \ \text{N}, \ensuremath{X}^{\text{Y}} = 706,369.2 \ \text{E} \\ \text{E} & - \ensuremath{Y}^{\text{Y}} = 435,280.3 \ \text{N}, \ensuremath{X}^{\text{Y}} = 706,369.2 \ \text{E} \\ \text{F} & - \ensuremath{Y}^{\text{Y}} = 435,280.3 \ \text{N}, \ensuremath{X}^{\text{Y}} = 706,386.6 \ \text{E} \\ \text{H} & - \ensuremath{Y}^{\text{Y}} = 432,647.4 \ \text{N}, \ensuremath{X}^{\text{Y}} = 705,085.7 \ \text{E} \\ \text{I} & - \ensuremath{Y}^{\text{Y}} = 430,006.2 \ \text{N}, \ensuremath{X}^{\text{Y}} = 706,403.9 \ \text{E} \\ \text{J} & - \ensuremath{Y}^{\text{Y}} = 429,997.9 \ \text{N}, \ensuremath{X}^{\text{Y}} = 705,083.2 \ \text{E} \\ \end{array}$	18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 03-12-2020
1650;= 1658;= SEC. 31	B.H.L. NO SEC. 32	LAST TAKE POINT LAST TAKE POINT NAD 27 NME NAD 83 NME Y= 430,271.5 Y= 430,330.0 X= 664,226.0 X= 705,410.4 LAT.= 32.181819'N LAT.= 32.181943'N LONG.= 103.802516'W LONG.= 103.802999'W BOTTOM HOLE LOCATION BOTTOM HOLE LOCATION NAD 27 NME NAD 83 NME Y= 430,161.5 Y= 430,220.0 X= 664,226.7 X= 705,411.1 LAT.= 32.181517'N LAT.= 32.181641'N LONG.= 103.802516'W LONG.= 103.802998'W	05-12-2020 Date of Survey Signatue and Seal of Professional Surveyor: 1 MARK DILLON HARP 23786 Certificate Number JC 2018010205



Database: Company: Project: Site: Well: Wellbore: Design:	XTO Eddy Poke #123 OH	5000.1.13 Sii Energy County, NM (r Lake Unit 17 H MIT v2	(NAD-27))	TVD Ref MD Refe North Re			Well #123H RKB = 30' @ 3 RKB = 30' @ 3 Grid Minimum Curv	3529.00usft	
Project	Eddy (County, NM (I	NAD-27)							
Map System: Geo Datum: Map Zone:	NAD 19	te Plane 1927 927 (NADCON exico East 30	I CONUS)	tion)	System D	atum:	Μ	ean Sea Level		
Site	Poker	Lake Unit 17	TWR							
Site Position: From: Position Uncerta	Ma inty:	•	Nort East) usft Slot	-	,	828.50 usft 224.90 usft 13-3/16 "	Latitude: Longitude: Grid Conve	rgence:		32.2108531 -103.8055843 0.28 °
Well	#123H									
Well Position	+N/-S +E/-W	-568.9 1,306.2		orthing: asting:		440,259.60 664,531.10		titude: ngitude:		32.2092716 -103.8013703
Position Uncertai	inty	0.0	00 usft N	/ellhead Elev	levation: 0.00 usft Ground Level: 3,499					3,499.00 usft
Wellbore	OH									
Magnetics	Мо	del Name	Samp	le Date	Declina (°)					Strength 1T)
		IGRF2015		04/07/20		6.76		59.98		47,616
Design	PERM	IIT v2								
Audit Notes:										
Version:			Pha	se: P	PLAN	Tie	e On Depth:		0.00	
Vertical Section:		De	epth From (1 (usft)	ΓVD)	+N/-S (usft)	(u	:/-W sft)		ection (°)	
			0.00		0.00	0.	.00	17	9.61	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
4,970.00	0.00	0.01	4,970.00	0.00	0.00	0.00	0.00	0.00	0.01	
5,219.78	5.00	324.63	5,219.46	8.87	-6.30	2.00	2.00		324.63	
11,941.79 12,882.70	5.00 90.00	324.63 179.62	11,915.94 12,529.00	486.19 -85.50	-345.11 -372.00	0.00 10.00	0.00 9.03	0.00 -15.41	0.00	PLU 17 TWR: #123
22,895.52	90.00 90.00	179.62		-85.50 -10,098.10	-304.79	0.00	9.03 0.00			PLU 17 TWR: #123 PLU 17 TWR: #123



Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well #123H RKB = 30' @ 3529.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3529.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT v2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PLU 17 TW 100.00 200.00 300.00 400.00	/R: #123H SHL 0.00 0.00 0.00 0.00 0.00	. (247' FNL & 0.00 0.00 0.00 0.00	2023' FWL) 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
549.00	0.00	0.00	549.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	0.00	0.00	040.00	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
629.00	0.00	0.00	629.00	0.00	0.00	0.00	0.00	0.00	0.00
Magenta D									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
929.00	0.00	0.00	929.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt	0.00	0.00	4 000 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
1,200.00	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
1,800.00	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
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,059.00	0.00	0.00	4,059.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,279.00	0.00	0.00	4,279.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: Company: Project:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27)	Local Co-ordinate Reference: TVD Reference: MD Reference:	Well #123H RKB = 30' @ 3529.00usft RKB = 30' @ 3529.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT v2		

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)
Delaware									
4,300.00 4,400.00	0.00 0.00	0.00 0.00	4,300.00 4,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	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
4,970.00 5,000.00 5,100.00 5,179.19	0.00 0.60 2.60 4.18	0.01 324.63 324.63 324.63	4,970.00 5,000.00 5,099.96 5,179.00	0.00 0.13 2.40 6.23	0.00 -0.09 -1.71 -4.42	0.00 -0.13 -2.42 -6.25	0.00 2.00 2.00 2.00	0.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00
Cherry Ca 5,200.00	nyon 4.60	324.63	5 100 75	7.52	-5.34	-7.56	2.00	2.00	0.00
5,200.00 5,219.78 5,300.00 5,400.00 5,500.00 5,600.00	4.80 5.00 5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63 324.63 324.63	5,199.75 5,219.46 5,299.38 5,399.00 5,498.62 5,598.24	8.87 14.57 21.67 28.77 35.87	-5.34 -6.30 -10.34 -15.38 -20.42 -25.46	-7.56 -8.92 -14.64 -21.77 -28.91 -36.04	2.00 2.00 0.00 0.00 0.00 0.00	2.00 2.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
5,700.00 5,800.00 5,900.00 6,000.00 6,100.00	5.00 5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63 324.63	5,697.86 5,797.48 5,897.10 5,996.72 6,096.34	42.97 50.07 57.17 64.28 71.38	-30.50 -35.54 -40.58 -45.62 -50.67	-43.18 -50.31 -57.45 -64.58 -71.72	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,200.00 6,300.00 6,400.00 6,474.08	5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63	6,195.96 6,295.58 6,395.20 6,469.00	78.48 85.58 92.68 97.94	-55.71 -60.75 -65.79 -69.52	-78.85 -85.99 -93.12 -98.41	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 Ca 6,500.00	nyon 5.00	324.63	6,494.82	99.78	-70.83	-100.26	0.00	0.00	0.00
6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	5.00 5.00 5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63 324.63 324.63	6,494.82 6,594.44 6,694.06 6,793.68 6,893.30 6,992.92	99.78 106.88 113.98 121.08 128.18 135.28	-70.83 -75.87 -80.91 -85.95 -90.99 -96.03	-100.26 -107.39 -114.53 -121.66 -128.80 -135.93	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
7,100.00 7,200.00 7,300.00 7,400.00 7,500.00	5.00 5.00 5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63 324.63	7,092.54 7,192.16 7,291.78 7,391.40 7,491.02	142.38 149.49 156.59 163.69 170.79	-101.07 -106.11 -111.15 -116.19 -121.23	-143.07 -150.20 -157.33 -164.47 -171.60	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,600.00 7,700.00 7,800.00 7,859.34	5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63	7,590.64 7,690.26 7,789.88 7,849.00	177.89 184.99 192.09 196.30	-126.27 -131.31 -136.35 -139.34	-178.74 -185.87 -193.01 -197.24	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Basal Brus 7.900.00	shy Canyon 5.00	324.63	7,889.50	199.19	-141.39	-200.14	0.00	0.00	0.00
8,000.00 8,100.00 8,140.41	5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63	7,989.12 8,088.74 8,129.00	206.29 213.39 216.26	-146.43 -151.47 -153.51	-207.28 -214.41 -217.30	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Bone Spri	0	004.00	0.465.55	000 10	450 5 1	004 55			
8,200.00 8,250.83 Avalon Sa	5.00 5.00	324.63 324.63	8,188.36 8,239.00	220.49 224.10	-156.51 -159.07	-221.55 -225.17	0.00 0.00	0.00 0.00	0.00 0.00



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #123H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3529.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3529.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT v2		

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)
8,280.94	5.00	324.63	8,269.00	226.24	-160.59	-227.32	0.00	0.00	0.00
Upper Ava 8,300.00	lon Shale 5.00	324.63	8,287.98	227.59	-161.55	-228.68	0.00	0.00	0.00
8,400.00 8,500.00 8,600.00	5.00 5.00 5.00	324.63 324.63 324.63	8,387.60 8,487.22 8,586.84	234.69 241.80 248.90	-166.59 -171.63 -176.67	-235.82 -242.95 -250.09	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,682.47	5.00	324.63	8,669.00	254.75	-180.83	-255.97	0.00	0.00	0.00
Lower Ava									
8,700.00 8,800.00 8,900.00 8,903.31	5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63	8,686.46 8,786.08 8,885.70 8,889.00	256.00 263.10 270.20 270.43	-181.71 -186.75 -191.80 -191.96	-257.22 -264.36 -271.49 -271.73	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	pring Lime								
9,000.00 9,100.00 9,104.07	5.00 5.00 5.00	324.63 324.63 324.63	8,985.32 9,084.94 9,089.00	277.30 284.40 284.69	-196.84 -201.88 -202.08	-278.63 -285.76 -286.05	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1st Bone S									
9,200.00 9,300.00	5.00 5.00	324.63 324.63	9,184.56 9,284.18	291.50 298.60	-206.92 -211.96	-292.89 -300.03	0.00 0.00	0.00 0.00	0.00 0.00
9,400.00 9,500.00 9,585.90	5.00 5.00 5.00	324.63 324.63 324.63	9,383.81 9,483.43 9,569.00	305.70 312.80 318.90	-217.00 -222.04 -226.37	-307.16 -314.30 -320.43	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Spring Lime								
9,600.00 9,700.00	5.00 5.00	324.63 324.63	9,583.05 9,682.67	319.90 327.01	-227.08 -232.12	-321.43 -328.57	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00 9,900.00 9,917.16	5.00 5.00 5.00	324.63 324.63 324.63	9,782.29 9,881.91 9,899.00	334.11 341.21 342.43	-237.16 -242.20 -243.06	-335.70 -342.84 -344.06	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
2nd Bone									
10,000.00 10,100.00	5.00 5.00	324.63 324.63	9,981.53 10,081.15	348.31 355.41	-247.24 -252.28	-349.97 -357.11	0.00 0.00	0.00 0.00	0.00 0.00
10,200.00 10,298.61	5.00 5.00	324.63 324.63	10,180.77 10,279.00	362.51 369.51	-257.32 -262.29	-364.24 -371.28	0.00 0.00	0.00 0.00	0.00 0.00
3rd Bone S									
10,300.00 10,400.00 10,500.00	5.00 5.00 5.00	324.63 324.63 324.63	10,280.39 10,380.01 10,479.63	369.61 376.71 383.81	-262.36 -267.40 -272.44	-371.38 -378.51 -385.65	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,600.00 10,700.00 10,800.00 10,900.00 11,000.00	5.00 5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63 324.63 324.63	10,579.25 10,678.87 10,778.49 10,878.11 10,977.73	390.91 398.01 405.11 412.21 419.32	-277.48 -282.52 -287.56 -292.60 -297.64	-392.78 -399.92 -407.05 -414.19 -421.32	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,081.58	5.00	324.63	11,059.00	425.11	-301.75	-427.14	0.00	0.00	0.00
3rd Bone S		204.00	11 077 05	400.40	200.00	400.40	0.00	0.00	0.00
11,100.00 11,200.00 11,300.00 11,400.00	5.00 5.00 5.00 5.00	324.63 324.63 324.63 324.63	11,077.35 11,176.97 11,276.59 11,376.21	426.42 433.52 440.62 447.72	-302.68 -307.72 -312.76 -317.80	-428.46 -435.59 -442.72 -449.86	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,402.80	5.00	324.63	11,379.00	447.92	-317.95	-450.06	0.00	0.00	0.00
Red Hills S									
11,500.00 11,503.18	5.00 5.00	324.63 324.63	11,475.83 11,479.00	454.82 455.05	-322.84 -323.01	-456.99 -457.22	0.00 0.00	0.00 0.00	0.00 0.00
Wolfcamp									



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #123H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3529.00usft
Project: Site:	Eddy County, NM (NAD-27) Poker Lake Unit 17 TWR	MD Reference:	RKB = 30' @ 3529.00usft
		North Reference:	Grid
Well:	#123H OH	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	PERMIT v2		

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)
11,533.30	5.00	324.63	11,509.00	457.18	-324.52	-459.37	0.00	0.00	0.00
Wolfcamp 11,600.00	X 5.00	224.62	11 E7E 4E	461.92	207.00	464 12	0.00	0.00	0.00
,		324.63	11,575.45		-327.89	-464.13	0.00		
11,613.60 Wolfcamp	5.00 V	324.63	11,589.00	462.89	-328.57	-465.10	0.00	0.00	0.00
11,653.76	5.00	324.63	11,629.00	465.74	-330.59	-467.96	0.00	0.00	0.00
Wolfcamp									
11,700.00 11,794.29	5.00 5.00	324.63 324.63	11,675.07 11,769.00	469.02 475.72	-332.93 -337.68	-471.26 -477.99	0.00 0.00	0.00 0.00	0.00 0.00
Wolfcamp		524.05	11,703.00	475.72	-337.00	-477.55	0.00	0.00	0.00
11,800.00	5.00	324.63	11,774.69	476.12	-337.97	-478.40	0.00	0.00	0.00
11,900.00 11,941.79 11,950.00 12,000.00	5.00 5.00 4.35 3.35	324.63 324.63 318.39 238.50	11,874.31 11,915.94 11,924.12 11,974.04	483.22 486.19 486.71 487.37	-343.01 -345.11 -345.53 -348.03	-485.53 -488.51 -489.04 -489.71	0.00 0.00 10.00 10.00	0.00 0.00 -7.87 -2.00	0.00 0.00 -75.95 -159.78
12,050.00	7.31	202.60	12,023.83	483.67	-350.50	-486.03	10.00	7.93	-71.81
12,055.22	7.80	201.09	12,029.00	483.03	-350.76	-485.39	10.00	9.25	-28.99
Wolfcamp 12,100.00 12,150.00 12,200.00 12,250.00	B 12.07 16.97 21.91 26.87	193.17 189.07 186.77 185.29	12,073.10 12,121.49 12,168.63 12,214.15	475.63 463.33 446.85 426.32	-352.92 -355.26 -357.51 -359.66	-478.01 -465.72 -449.26 -428.75	10.00 10.00 10.00 10.00	9.55 9.79 9.88 9.93	-17.68 -8.20 -4.59 -2.96
12,266.77	28.54	184.90	12,229.00	418.55	-360.35	-420.98	10.00	9.94	-2.32
Wolfcamp 12,300.00 12,350.00 12,400.00 12,450.00	31.85 36.83 41.81 46.80	184.24 183.45 182.83 182.31	12,257.71 12,298.99 12,337.66 12,373.43	401.90 373.77 342.14 307.27	-361.68 -363.56 -365.28 -366.84	-404.34 -376.22 -344.61 -309.74	10.00 10.00 10.00 10.00	9.95 9.96 9.97 9.97	-1.98 -1.58 -1.25 -1.03
12,500.00 12,538.83	51.79 55.66	181.88 181.58	12,406.03 12,429.00	269.40 238.12	-368.22 -369.16	-271.89 -240.61	10.00 10.00	9.98 9.98	-0.87 -0.77
Wolfcamp		101.50	12,429.00	200.12	-303.10	-240.01	10.00	3.30	-0.77
12,550.00 12,600.00 12,650.00	56.78 61.77 66.76	181.50 181.16 180.85	12,435.21 12,460.75 12,482.45	228.84 185.88 140.86	-369.41 -370.40 -371.19	-231.33 -188.38 -143.37	10.00 10.00 10.00	9.98 9.98 9.98	-0.72 -0.68 -0.62
12,700.00 12,750.00 12,800.00 12,850.00 12,882.70	71.75 76.75 81.74 86.73 90.00	180.56 180.29 180.03 179.78 179.62	12,500.15 12,513.72 12,523.05 12,528.07 12,529.00	94.12 46.02 -3.09 -52.82 -85.50	-371.76 -372.12 -372.25 -372.17 -372.00	-96.64 -48.53 0.57 50.30 82.98	10.00 10.00 10.00 10.00 10.00	9.99 9.99 9.99 9.99 9.99 9.99	-0.57 -0.54 -0.52 -0.51 -0.50
LP - PLU 1	7 TWR: #123H	FTP							
12,900.00 13,000.00 13,100.00 13,200.00 13,300.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-102.80 -202.80 -302.80 -402.80 -502.79	-371.88 -371.21 -370.54 -369.87 -369.20	100.28 200.28 300.28 400.28 500.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,400.00 13,500.00 13,600.00 13,700.00 13,800.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-602.79 -702.79 -802.79 -902.79 -1,002.78	-368.53 -367.86 -367.19 -366.51 -365.84	600.28 700.28 800.28 900.28 1,000.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,900.00 14,000.00 14,100.00	90.00 90.00 90.00	179.62 179.62 179.62	12,529.00 12,529.00 12,529.00	-1,102.78 -1,202.78 -1,302.78	-365.17 -364.50 -363.83	1,100.28 1,200.28 1,300.28	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well#123H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3529.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3529.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT v2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.00 14,300.00	90.00 90.00	179.62 179.62	12,529.00 12,529.00	-1,402.77 -1,502.77	-363.16 -362.49	1,400.28 1,500.28	0.00 0.00	0.00 0.00	0.00 0.00
14,400.00 14,500.00 14,600.00 14,700.00 14,800.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-1,602.77 -1,702.77 -1,802.77 -1,902.76 -2,002.76	-361.82 -361.14 -360.47 -359.80 -359.13	1,600.28 1,700.28 1,800.28 1,900.28 2,000.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,900.00 15,000.00 15,100.00 15,200.00 15,300.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-2,102.76 -2,202.76 -2,302.75 -2,402.75 -2,502.75	-358.46 -357.79 -357.12 -356.45 -355.77	2,100.28 2,200.28 2,300.28 2,400.28 2,500.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,400.00 15,500.00 15,600.00 15,700.00 15,800.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-2,602.75 -2,702.75 -2,802.74 -2,902.74 -3,002.74	-355.10 -354.43 -353.76 -353.09 -352.42	2,600.28 2,700.28 2,800.28 2,900.28 3,000.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,900.00 16,000.00 16,100.00 16,200.00 16,300.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-3,102.74 -3,202.73 -3,302.73 -3,402.73 -3,502.73	-351.75 -351.08 -350.40 -349.73 -349.06	3,100.28 3,200.28 3,300.28 3,400.28 3,500.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,400.00 16,500.00 16,600.00 16,700.00 16,800.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-3,602.72 -3,702.72 -3,802.72 -3,902.72 -4,002.72	-348.39 -347.72 -347.05 -346.38 -345.71	3,600.28 3,700.28 3,800.28 3,900.28 4,000.28	0.00 0.00 0.00 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	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-4,102.71 -4,202.71 -4,302.71 -4,402.71 -4,502.70	-345.03 -344.36 -343.69 -343.02 -342.35	4,100.28 4,200.28 4,300.28 4,400.28 4,500.28	0.00 0.00 0.00 0.00 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	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-4,602.70 -4,702.70 -4,802.70 -4,902.70 -5,002.69	-341.68 -341.01 -340.34 -339.66 -338.99	4,600.28 4,700.28 4,800.28 4,900.28 5,000.28	0.00 0.00 0.00 0.00 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	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-5,102.69 -5,202.69 -5,302.69 -5,402.68 -5,502.68	-338.32 -337.65 -336.98 -336.31 -335.64	5,100.28 5,200.28 5,300.28 5,400.28 5,500.28	0.00 0.00 0.00 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	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-5,602.68 -5,702.68 -5,802.68 -5,902.67 -6,002.67	-334.97 -334.29 -333.62 -332.95 -332.28	5,600.28 5,700.28 5,800.28 5,900.28 6,000.28	0.00 0.00 0.00 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	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-6,102.67 -6,202.67 -6,302.66 -6,402.66 -6,502.66	-331.61 -330.94 -330.27 -329.60 -328.92	6,100.28 6,200.28 6,300.28 6,400.28 6,500.28	0.00 0.00 0.00 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 19,500.00	90.00 90.00	179.62 179.62	12,529.00 12,529.00	-6,602.66 -6,702.66	-328.25 -327.58	6,600.28 6,700.28	0.00 0.00	0.00 0.00	0.00 0.00



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #123H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3529.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3529.00usft
Site:	Poker Lake Unit 17 TWR	North Reference:	Grid
Well:	#123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT v2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,600.00 19,700.00 19,800.00	90.00 90.00 90.00	179.62 179.62 179.62	12,529.00 12,529.00 12,529.00	-6,802.65 -6,902.65 -7,002.65	-326.91 -326.24 -325.57	6,800.28 6,900.28 7,000.28	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
19,900.00 20,000.00 20,100.00 20,200.00 20,300.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-7,102.65 -7,202.64 -7,302.64 -7,402.64 -7,502.64	-324.90 -324.23 -323.55 -322.88 -322.21	7,100.28 7,200.28 7,300.28 7,400.28 7,500.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,400.00 20,500.00 20,600.00 20,700.00 20,800.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-7,602.63 -7,702.63 -7,802.63 -7,902.63 -8,002.63	-321.54 -320.87 -320.20 -319.53 -318.86	7,600.28 7,700.28 7,800.28 7,900.28 8,000.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,900.00 21,000.00 21,100.00 21,200.00 21,300.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-8,102.62 -8,202.62 -8,302.62 -8,402.62 -8,502.61	-318.19 -317.51 -316.84 -316.17 -315.50	8,100.28 8,200.28 8,300.28 8,400.28 8,500.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,400.00 21,500.00 21,600.00 21,700.00 21,800.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-8,602.61 -8,702.61 -8,802.61 -8,902.61 -9,002.60	-314.83 -314.16 -313.49 -312.82 -312.14	8,600.28 8,700.28 8,800.28 8,900.28 9,000.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,900.00 22,000.00 22,100.00 22,200.00 22,300.00	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-9,102.60 -9,202.60 -9,302.60 -9,402.59 -9,502.59	-311.47 -310.80 -310.13 -309.46 -308.79	9,100.28 9,200.28 9,300.28 9,400.28 9,500.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,400.00 22,500.00 22,600.00 22,700.00 22,785.52	90.00 90.00 90.00 90.00 90.00	179.62 179.62 179.62 179.62 179.62 179.62	12,529.00 12,529.00 12,529.00 12,529.00 12,529.00	-9,602.59 -9,702.59 -9,802.59 -9,902.58 -9,988.10	-308.12 -307.45 -306.77 -306.10 -305.53	9,600.28 9,700.28 9,800.28 9,900.28 9,985.81	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
PLU 17 TW	/R: #123H LTP								
22,800.00 22,895.52	90.00 90.00	179.62 179.62	12,529.00 12,529.00	-10,002.58 -10,098.10	-305.43 -304.79	10,000.28 10,095.81	0.00 0.00	0.00 0.00	0.00 0.00
PLU 17 TWR: #123H PBHL (220' FSL & 1650' FWL)									



Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27) Poker Lake Unit 17 TWR #123H OH PERMIT v2				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Well #123H RKB = 30' @ 3529.00usft RKB = 30' @ 3529.00usft Grid Minimum Curvature		
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Eastin (usft)	•	Longitude	
PLU 17 TWR: #123H - plan hits target - Point		0.01	0.00	0.00	0.00	440,259.60	664,53	31.10 32.2092716	-103.8013703	
PLU 17 TWR: #123H - plan misses targ - Point			12,529.00 22785.52u	- ,	-305.10 9.00 TVD, -9	430,271.50 9988.10 N, -305.53	664,22 3 E)	26.00 32.1818196	-103.8025161	
PLU 17 TWR: #123H - plan hits target - Point		0.01 1	2,529.00	-85.50	-372.00	440,174.10	664,1	59.10 32.2090416	-103.8025744	
PLU 17 TWR: #123H - plan misses targ - Point			,	-10,098.10 sft MD (1252	-304.40 9.00 TVD, -1	430,161.50 0098.10 N, -304.7	664,22 79 E)	26.70 32.1815172	-103.8025156	

Formations

Measured Depth (usft)	Vertical Depth (usft)			Dip	Dip Direction
· · /	· · /	Name	Lithology	(°)	(°)
549.00	549.00	Rustler			
629.00	629.00	Magenta Dolomite			
929.00	929.00	Top Salt			
4,059.00	4,059.00	Base Salt			
4,279.00	4,279.00	Delaware			
5,179.19	5,179.00	Cherry Canyon			
6,474.08	6,469.00	Brushy Canyon			
7,859.34	7,849.00	Basal Brushy Canyon			
8,140.41	8,129.00	Bone Spring Lime			
8,250.83	8,239.00	Avalon Sand			
8,280.94	8,269.00	Upper Avalon Shale			
8,682.47	8,669.00	Lower Avalon Shale			
8,903.31	8,889.00	1st Bone Spring Lime			
9,104.07	9,089.00	1st Bone Spring Ss			
9,585.90	9,569.00	2nd Bone Spring Lime			
9,917.16	9,899.00	2nd Bone Spring Ss			
10,298.61	10,279.00	3rd Bone Spring Lm			
11,081.58	11,059.00	3rd Bone Spring Ss			
11,402.80	11,379.00	Red Hills SS			
11,503.18	11,479.00	Wolfcamp			
11,533.30	11,509.00	Wolfcamp X			
11,613.60	11,589.00	Wolfcamp Y			
11,653.76	,	Wolfcamp A			
11,794.29	11,769.00	Wolfcamp A Lower			
12,055.22	12,029.00	Wolfcamp B			
12,266.77	12,229.00	Wolfcamp C			
12,538.83	12,429.00	Wolfcamp D			
12,882.70	12,529.00	LP			