SUNDRY NOTICES AND REPORTS ON THE OF DARTESIA Do not use this form for proposals to drill or to re-enter an ARTESIA abandoned well. Use form 3160-3 (APD) for such proposals.					6. If Indian, Allottee or Tribe Name		
SUBMIT IN	7. If Unit or CA/Agreement, Name and/or No. 891000303X						
I. Type of Well ☐ Oil Well ☐ Gas Well ☐ Otl	8. Well Name and No. POKER LAKE UNIT 18 TWR 122H						
Name of Operator XTO PERMIAN OPERATING	9. API Well No. 30-015-46428-0	10-X1					
3á. Address 6401 HOLIDAY HILL ROAD E MIDLAND, TX 79707	BLDG 5.	3b. Phone No. (include area Ph. 432-620-4374	code)	10. Field and Pool or PURPLE SAGE	Exploratory Area -WOLFCAMP (GAS)		
4. Location of Well (Foolage, Sec., T	R., M., or Survey Description	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		I I. County or Parish,	State		
Sec 19 T24S R31E NWNW 40 32 209957 N Lat, 103 823143	ÔFNL 785FWL W Lon			EDDY COUNTY	, NM		
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICATE NATU	RE OF NOTICE,	REPORT, OR OTH	IER DATA		
TYPE OF SUBMISSION		ŢY)	PE OF ACTION	- 3 34 1			
Notice of Intent	☐ Acidize	☐ Deepen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off		
	☐ Alter Casing	☐ Hydraulic Fractı	ring, 🗖 Reclama	ation	☐ Well Integrity		
☐ Subsequent Report	Casing Repair	☐ New Construction	n 🗖 Recomp	lete	Other		
☐ Final Abandonment Notice	. Change Plans	Plug and Abando	n Tempor	arily Abandon	Change to Original A		
	Convert to Injection	Plug Back	☐ Water D	isposal	10		
XTO Permian Operating, LLC Change the casing/cement de XTO requests to not utilize cer XTO requests a variance to be each casing string and ensure floats holding, no pressure on recommendations, XTO will conce surface and intermediate hold on each of the wells.	sign per the attached drill ntralizers in the curve and a able to batch drill this we that the well is cemented	ing program. lateral. Il if necessary. In doing properly and the well is	so, XTO will set staticr-Withでて	ACHED FOI	ξ PROVAL		
		Date ministration.	Light Harry	with market at this	<u>. 18 1</u> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
14 I hereby centify that the foregoing & Common Name (Printed/Typed) KELLY KA	Electronic Submission #4 For XTO PERMI, itted to AFMSS for proces	N OPERATING LLC, sensing by JENNIFER SANCH	t to the Carlsbad IEZ on 01/07/2020 GULATORY COV APPROVE	(20JAS0059SE)			
Signature	N / / //	R FEDERAL OR STA	02/2020 TE OFFICE US	É.J.			
100 A Control A							
_Appiroved By	H - H H - //- //-	Title	REAU OF LAND	MANAGEMENT	Date.		
Conditions of approval; if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condu	coperations the feon.	not warrant or subject lease Office	HOSWELL FIL		in the second se		
Title 18 U.S.C. Section 1001 and Title 43 t States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a cuta ements or representations as	crime for any person knowing to any matter within its jurisdi	y and willfully to ma	ke to any department or	agency of the United		
(Instructions on page 2) ** BLM REVI	SED ** BLM REVISED	** BLM REVISED **	BLM REVISED	** BLM REVISED). **		

Accepted 1/28/20 KS

Additional data for EC transaction #497393 that would not fit on the form

32. Additional remarks, continued

Poker Lake Unit 18 TWR 122H 30-015-46428 Poker Lake Unit 18 TWR 102H 30-015-46426 Poker Lake Unit 18 TWR 162H 30-015-46431

Revisions to Operator-Submitted EC Data for Sundry Notice #497393

Operator Submitted

Sundry Type:

APDCH .

NOI

Lease:

NMNM025533

Agreement:

NMNM71016X

Operator:

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

Admin Contact:

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

Ph: 432-620-4374

Tech Contact:

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

Ph: 432-620-4374

Location:

State: County: **EDDY**

Field/Pool:

PURPLE SAGE WOLFCAMP GAS

Well/Facility:

POKER LAKE UNIT 18 TWR 122H Sec 19 T24S R31E Mer NMP NWNW 40FNL 785FWL

BLM Revised (AFMSS)

APDCH NOI

NMNM025533

891000303X (NMNM71016X)

XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707

Ph: 432.683 2277

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

Ph: 432-620-4374

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

Ph: 432-620-4374

NM **EDDY**

PURPLE SAGE-WOLFCAMP (GAS)

POKER LAKE UNIT 18 TWR 122H Sec 19 T24S R31E NWNW 40FNL 785FWL 32.209957 N Lat, 103.823143 W Lon

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

XTO Energy Inc.
PLU 18 Twin Wells Ranch 122H
Projected TD: 22103' MD / 11278' TVD
SHL: 40' FNL & 765' FWL , Section 19, T24S, R31E
BHL: 200' FSL & 1170' FWL ; Section 30, T24S, R31E

1. Geologic Name of Surface Formation

A. Permian

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

	1	-1
Formation Wel	l Depth (TVD)V	Vater/Oil/Gas 🖫
Rustler	528'	Water
Top of Salt	899'	Water
Base of Salt	4023'	Water !
Delaware	4271'	, Water, **
Bone Spring	, 8138' V	Vater/Oil/Gas
1st Bone Spring Ss	9088' V	Vater/Oil/Gas*
2nd Bone Spring Ss	9868' V	Vater/Oil/Gas
3rd Bone Spring Ss	11018': V	Vater/Oil/Gas
Wolfcamp	11418' V	Vater/Oil/Gas
Wolfcamp A	11588' V	Vater/Oil/Gas
Target/Land Curve	11278'V	Vater/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 16 inch casing @! (899' above the salt) and circulating cement back to surface. The salt will be isolated by setting 11-3/4 inch casing at 790' and circulating cement to surface. A 10-5/8 inch vertical hole will be drilled to 10340' and 8-5/8 inch casing ran and cemented 500' into the 11-3/4 inch casing. An 7-7/8 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 8-5/8 inch casing shoe.

3. Casing Design

	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
l	14-3/4"	0' – 790'	11-3/4"	47	BTC	J 55	New	1.20	3.68	12.85
l	.10-5/8"	0' - 10340'	8-5/8"	32	BTC	HCL-80	New	1.28	1.46	2.21
	7-7/8"	0' - 22103'	5-1/2"	20	BTC	P-110	New	1.18	1.65	2:14

XTO requests to not utilize centralizers in the curve and lateral

.8-5/8" 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 - GE RSH Multibowl System

- A. Starting Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange
- B. Tubing Head: 13-5/8" 5M 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 8-5/8" casing per Onshore Order 2.
 - · Wellhead manufacturer representative may not be present for BOP test plug installation

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

4. Cement Program

Surface Casing: 11-3/4", 47 New J-55, BTC casing to be set at +/- 790'

Lead: 220 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx; 9.61 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

Top of Cement: Surface

Intermediate Casing: 8-5/8", 32 New HCL-80, BTC casing to be set at +/- 10340' ECP/DV Tool to be set at 840'

1st Stage

Lead: 20 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 9.61 gal/sx water)

Tail: 50 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

2nd Stage

Lead: 1880 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 310 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx; 6.39 gal/sx water)

Compressives: 900 psi 24 hr = 1500 psi

Top of Cement: 200' inside previous casing shoe Swale

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 22103'

Lead: 1790 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 1790 sxs VersaCem (mixed at 13.2 ppg, 10633 ft3/sx, 8.38 gal/sx water)

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

Top of Cement: 300' inside previous casing shoe

5. Pressure Control Equipment

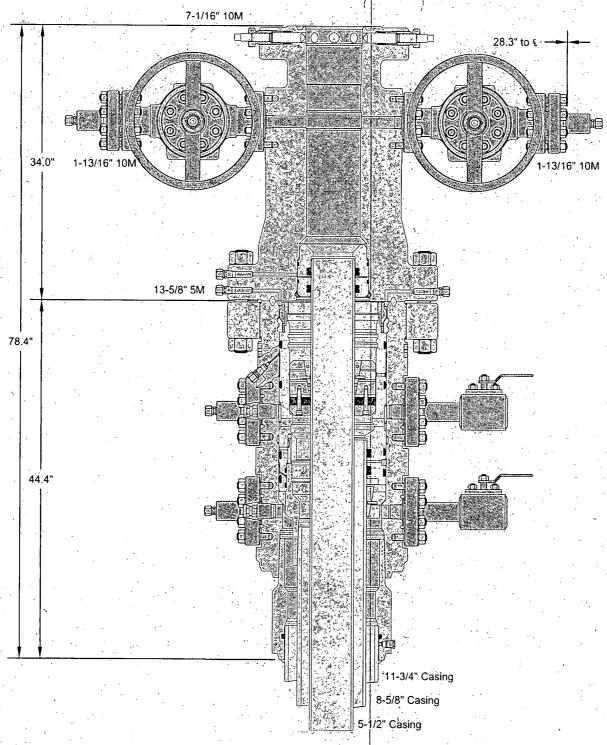
Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M 3-Ram BOP. MASP should not exceed 4263 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular 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" 5M bradenhead and flange; the BOP test will be limited to 5000 psi. When the 11-3/4" and 8-5/8" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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





ALL DIMENSIONS ARE APPROXIMATE

T) ne	is drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approve ither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pre	ed in writing, ssure Control LP.	XTO ENERGY, INC.
1 2	11-3/4" x 8-5/8" x 5-1/2" 10M RSH-2 Wellhead		DRAWN VJK 31OCT16 APPRV KN 31OCT16
	Assembly, With T-EBS-F Tubing Head.		FOR REFERENCE ONLY DRAWING NO. 10012358

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 8-5/8 inch intermediate casing is:

Operator has proposed DV tool at depth of 840°, but will adjust cement proportionately if moved. 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.

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- 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. Excess calculates to negative 50% Additional cement will be required.

Formation below the 8-5/8" 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.

Centralizers required through the curve and a minimum of one every other joint.

- 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.
- 4. 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.

- 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 011320