UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	FORM APPROVED
_	QMB NO. 1004-0137
1	OMB NO. 1004-0137

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

NMNM120898

Do not use thi	is form for proposals to drill	or to re-enter an 🖰 📭	6. If Indian, Allottee	or Triba Nama
abandoned we	II. Use form 3160-3 (APD) fo	or such proposals.	0. Il mulan, Anouce	OF THRE NAME
SUBMIT IN	TRIPLICATE - Other instruct	ions on page 2	7. If Unit or CA/Ag 891000303X	reement, Name and/or No.
Type of Well			8. Well Name and N	o. JNIT 18 BD 101H
Oil Well Gas Well Otl		LVKADDOC		
2. Name of Operator BOPCO LP	Contact: KEL E-Mail: kelly_kardos@x		9. API Well No. 30-015-44899	-00-X1
3a. Address 6401 HOLIDAY HILL RD BLD MIDLAND, TX 79707		Phone No. (include area code): 432-620-4374	10. Field and Pool o WILDCAT	т Exploratory Area
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)		11. County or Parish	n, State
Sec 18 T25S R30E 2310FNL	570FWL		EDDY COUN	TY, NM
12. CHECK THE AI	PPROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, REPORT, OR OT	THER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent	☐ Acidize	Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	☐ Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	■ Water Disposal	10
XTO Permian Operating, LLC procedure	. requests permission to revise	e the drilling program per t	he attached	ED
			FEB 1 4	
			ייאליו וטוחופוע	
14. I hereby certify that the foregoing is	Electronic Submission #4516	O LP, sent to the Carlsbac		
Name (Printed/Typed) KELLY KA	ARDOS	Title REGULA	ATORY COORDINATOR	
-				
Signature (Electronic S	Submission)	Date 01/24/20	19	
	THIS SPACE FOR F	EDERAL OR STATE (OFFICE USE	
Approved By DYLAN ROSSMANO	GQ	TitlePETROLE	JM ENGINEER	Date 02/12/2019
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to condu	uitable title to those rights in the subje			
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a crime	e for any person knowingly and	willfully to make to any department	or agency of the United

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

XTO Energy Inc.
PLU 18 Brushy Draw 101H
Projected TD: 18400' MD / 10601' TVD
SHL: 2310' FNL & 570' FWL , Section 18, T25S, R30E
BHL: 200' FSL & 550' FWL , Section 19, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	707'	Water
Top of Salt	1020'	Water
Base of Salt	3360'	Water
Delaware	3491'	Water
Bone Spring Lm	7222'	Water/Oil/Gas
1st Bone Spring Ss	8189'	Water/Oil/Gas
2nd Bone Spring Ss	9046'	Water/Oil/Gas
3rd Bone Spring Ss	10078'	Water/Oil/Gas
Wolfcamp	10474'	Water/Oil/Gas
Target/Land Curve	10601'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13-3/8 inch casing @ 830' (190' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 3460' and circulating cement to surface. An 8-3/4 inch vertical and curve hole will be drilled and 7 inch casing run and cemented 500' 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.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 830'	13-3/8"	54.5	втс	J-55	New	2.54	2.98	21.41
12-1/4"	0' – 3460'	9-5/8"	· 40	втс	1-55	New	1.41	2.36	5.06
8-3/4"	0' - 10932'	7"	32	втс	P-110	New	1.31	2.10	2.83
6"	10031' – 18400'	4-1/2"	13.5	втс	P-110	New	1.31	3.21	2.31

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 9-5/8" & 4-1/2" Collapse analyzed using 50% evacuation based on regional experience.
- 4-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

- A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 3M top flange
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 15M top flange
 - Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 9-5/8" casing to per Onshore Order 2.
 - Wellhead manufacturer representative will not be present for BOP test plug installation

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

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, BTC casing to be set at +/- 830'

Lead: 390 sxs EconoCem-HLTRRC (mixed at 12.9 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: 9-5/8", 40 New J-55, BTC casing to be set at +/- 3460'

Lead: 980 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 230 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: 7", 32 New P-110, BTC casing to be set at +/- 10932'

Lead: 1000 sxs Halcem-C + 2% CaCl (mixed at 12.9 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: 4-1/2", 13.5 New P-110, BTC casing to be set at +/- 18400'

Tail: 710 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

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3291 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 9-5/8" and 7" 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 830'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
830' to 3460'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3460' to 10932'	8-3/4"	FW / Cut Brine	8.6-9.5	29-32	NC - 20
10932' to 18400'	6-1/8"	FW / Cut Brine / Polymer	9.9-10.2	32-50	20-Aug

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 solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. 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 intermediate casing.

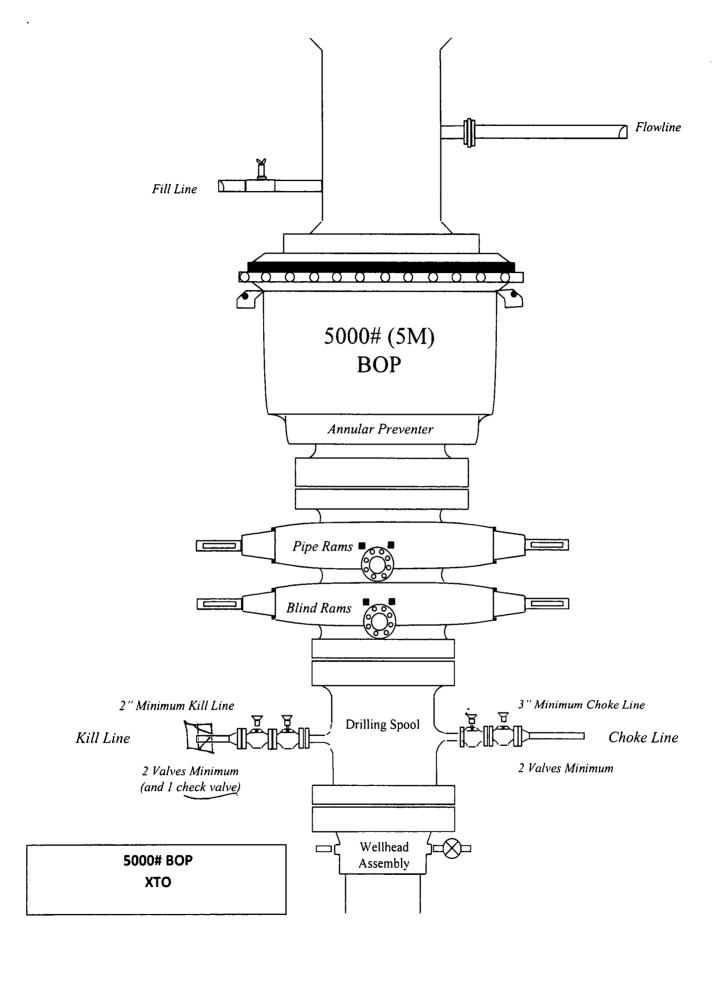
Open hole logging will not be done on this well.

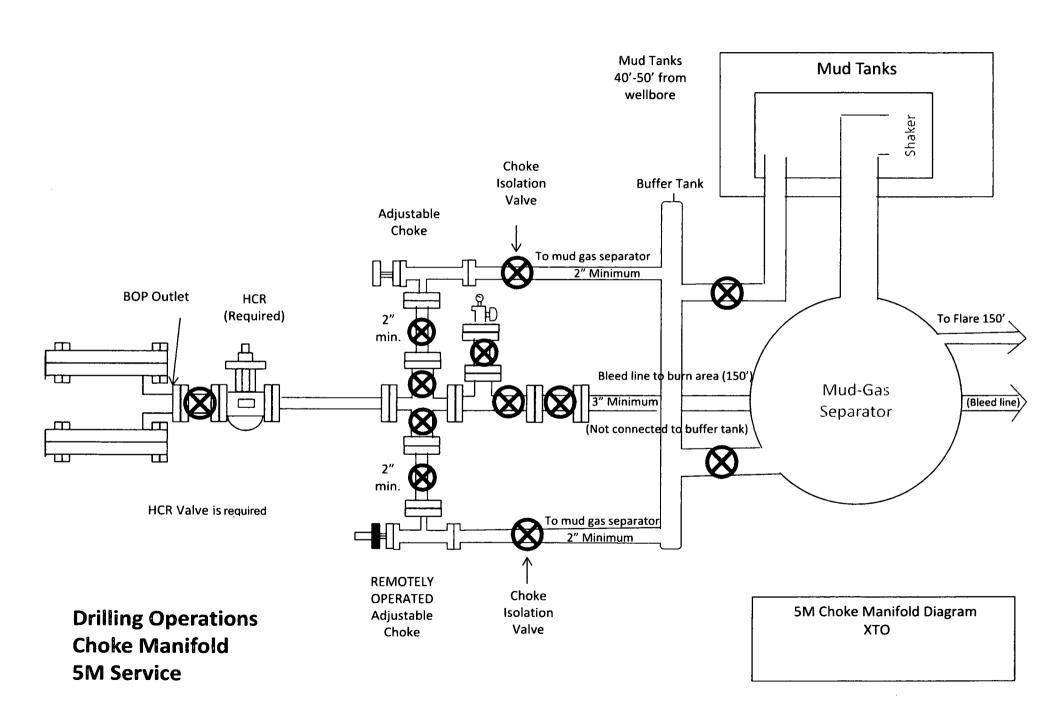
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 70 to 90 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 5623 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.







GATES E & S NORTH AMERICA, INC

DU-TEX

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WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer Ref. : Inverce No. :	AUSTIN DISTRIBUTING PENDING 201709	Test Date: Hose Serial No.: Created By:	6/5/2014 D-050814-1 MORI4A
Product Description:		FD3.042.0R41/16.5KFLGE/E	LE
Product Description: End Fitting 1 : Sales Part No. :	4 1/16 m.5K FLG 4774-6001	FD3.042.0R41/16.5KFLGE/E End Fitting 2 :	LE 4 1/16 in.5K FLG

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:

Date:

Signature :

QUALITY

6/8/2014

12014//

Technical Supervisor:

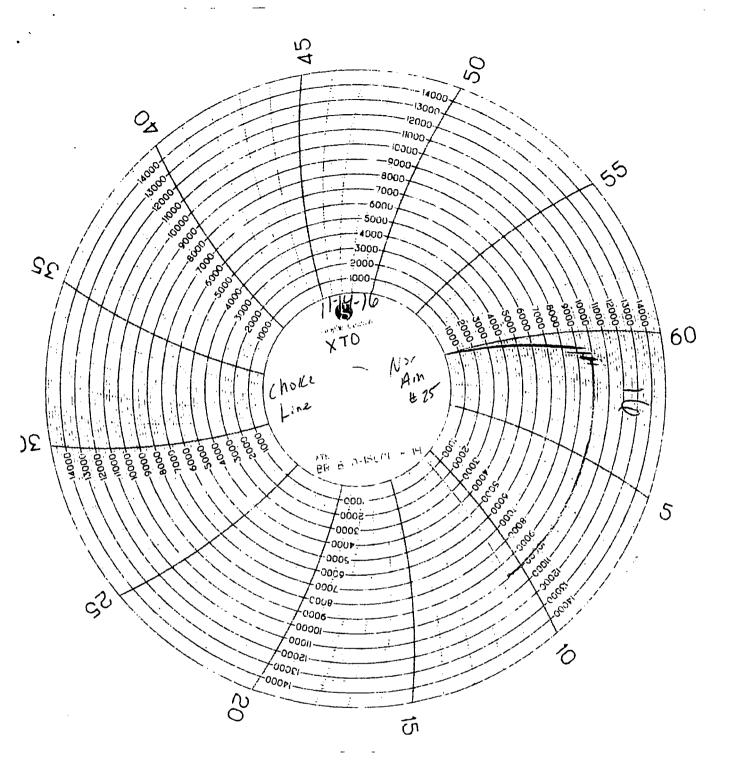
Date:

Signature:

PRODUCTION

-56/8/2014

Form PTC - 01 Rev.0 2



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