Form 3160-5 (June 2015)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

**NMOCD** 

FORM APPROVED

	January 31, 201
ease Serial No.	

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter

NMLC064894

abandoned we	ell. Use form 3160-3 (AF	PD) for such proposals.	6. If Indian, Al	lottee or Tribe Name
	TRIPLICATE - Other ins	tructions on page 2	7. If Unit or CA NMNM710	A/Agreement, Name and/or No.
Type of Well	ther		8. Well Name a POKER LA	nd No. KE UNIT 20 BD 901H
Name of Operator     XTO PERMIAN OPERATING	Contact: G,LLC E-Mail: kelly_kard	KELLY KARDOS os@xtoenergy.com	9. API Well No 30-015-45	
3a. Address 6401 HOLIDAY HILL RD BLI MIDLAND, TX 79707	DG 5	3b. Phone No. (include area code) Ph: 432-620-4374	10. Field and Po	ool or Exploratory Area CANYON BS SOUTH
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description	i)	11. County or P	arish, State
Sec 20 T25S R30E Mer NMF	SWSW 330FSL 480FWL		FDDY CO	UNTY, NM
			255.00	•
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICATE NATURE OF	F NOTICE, REPORT, OR	OTHER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent     Notice of Intent	☐ Acidize	□ Deepen	☐ Production (Start/Resum	ne) Water Shut-Off
	☐ 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
· ·	☐ Convert to Injection	Plug Back	■ Water Disposal	,
testing has been completed. Final A determined that the site is ready for XTO Permian Operating, LLC original APD:	bandonment Notices must be fil inal inspection.	the Bond No. on file with BLM/BIA. sults in a multiple completion or record ed only after all requirements, includi mission to make the following  (Oil) to Purple Sage; Wolfcam	npletion in a new interval, a Foring reclamation, have been comp	
Revise the casing/cmt design			, , , , , , , , , , , , , , , , , , ,	JUN <b>2</b> .5 2019
Attachments: Updated C102 & Supplement Drilling Program BOP/CK/FH Directional Drill Plan		1	TTACHED FOR DITIONS OF AP	
14. I hereby certify that the foregoing is	true and correct.	<del>-//</del>		<del>-</del>
Name (Printed Typed) KELLY KA	Flectroffic Submission #4 For XTO PERMI. Committed to AFMSS fo		Information System e Carlsbad EZ on 06/04/2019 () TORY COORDINATOR  19 APPROVED	· · · · · · · · · · · · · · · · · · ·
	THIS SPACE FO	FEDERAL OR STATE C	FFICE USE	
Approved By  orditions of approval, if any, are attache fify that the applicant holds legal or equ hich would/entitle the applicant to condu	itable title to those rights in the	Title in the surface bulker bu	JUN 0 2019 JU OF LAND MANAGEME DSWELL FIELD OFFICE	Date
itle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S. Section 1212 make it a	critice for any person knowingly and u	villfully to make to any department	ent or agency of the United .
istractions on page 2)	<del></del>	PERATOR-SUBMITTED **	OPERATOR-SUBMITT	· ·ED **

RNP7-25-19

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

XTO Energy Inc.
PLU 20 Brushy Draw 121H
Projected TD: 21659' MD / 11133' TVD
SHL: 330' FSL & 480' FWL , Section 20, T25S, R30E
BHL: 200' FSL & 330' FWL , Section 32, T25S, R30E
Eddy County, NM

#### 1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	611'	Water
Top of Salt	698'	Water
Base of Salt	3399'	Water
Delaware	3589'	Water
Bone Spring	7435'	Water/Oil/Gas
1st Bone Spring Ss	8380'	Water/Oil/Gas
2nd Bone Spring Ss	9202'	Water/Oil/Gas
3rd Bone Spring Ss	10291'	Water/Oil/Gas
3rd Bone Spring Sh Lwr	10135'	Water/Oil/Gas
Wolfcamp A	10820'	Water/Oil/Gas
Wolfcamp A Lwr	11001'	Water/Oil/Gas
Target/Land Curve	11133'	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 16 inch casing @ 640' (58' above the salt) and circulating cement back to surface. The salt will be isolated by setting 11-3/4 inch casing at 3440' and circulating cement to surface. 8-5/8 inch intermediate casing will be set at 10210'. An 7-7/8 inch curve and 7-7/8 inch lateral hole will be drilled to TD, where 5-1/2 inch casing will be set and cemented back up to the 9-5/8 inch casing shoe.

### 3. Casing Design

	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
	18-1/2"	0' - 640'	16"	75	, STC	J-55	New	2.46	4.56	24.54
	. 14-3/4"	0' - 3440'	11-3/4"	47	STC	J-55	New	1.08	1.40	4.56
_	124/4"	0' - 10210'	8-5/8''	32	LTC	. HCL-80	New	I.57	1.32	2.24
	8-3/4" x 8-1/2"	0' – 21659'	5-1/2"	20	втс	P-110	New	1.30	1.83	2.13

10-5/g" >er Court Adkins

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 16" Collapse analyzed using 75% evacuation. Casing to be filled while running.
- 11-3/4" & 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

### WELLHEAD:

### Temporary Wellhead

- 16" SOW bottom x 21-1/4" 2M top flange.

  <u>Permanent Wellhead GE RSH Multibowl System</u>
- A. Starting Head: 13-5/8" 5M top flange x 11-3/4" SOW bottom
- B. Tubing Head: 13-5/8" 5M bottom flange x 7" 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 BLM Onshore Order 2

• Wellhead manufacturer representative will not be present for BOP test plug installation

### 4. Cement Program

Surface Casing: 16", 75 New J-55, STC casing to be set at +/- 640"

Lead: 1450 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Compressives:

12-hr =

900 psi

24 hr = 1500 psi

1st Intermediate Casing: 11-3/4", 47 New J-55, STC casing to be set at +/- 3440'

Lead: 1450 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

12-hr =

900 psi

24 hr = 1500 psi

2nd Intermediate Casing: 8-5/8", 32 New HCL-80, LTC casing to be set at +/- 10210' ECP/DV Tool to be set at 3540'

1st Stage

Lead: 1370 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 150 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: 670 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 150 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

12-hr =

900 psi

24 hr = 1500 psi

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 21659'

Tail: 1620 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water)

Compressives:

12-hr =

1375 psi

24 hr = 2285 psi

XTO requests a variance to be able to batch drill these wells if necessary. In doing so, XTO will set 11-3/4" intermediate casing and ensure that the well is cemented properly and the well is dead. With floats holding, no pressure on the intermediate csg annulus, and the installation of a TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the surface and intermediate for the remaining wells on the pad. Once surface and intermediate are all completed, XTO will begin drilling the production hole on each of the wells.

### 5. Pressure Control Equipment

The blow out preventer equipment (BOP) on surface casing/temp, wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 1068 psi.

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 3629 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).

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. Since a multibowl system will be used, subsequent BOP pressure tests will be performed as necessary based on required testing schedule (i.e., at least every 30 days). 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

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.

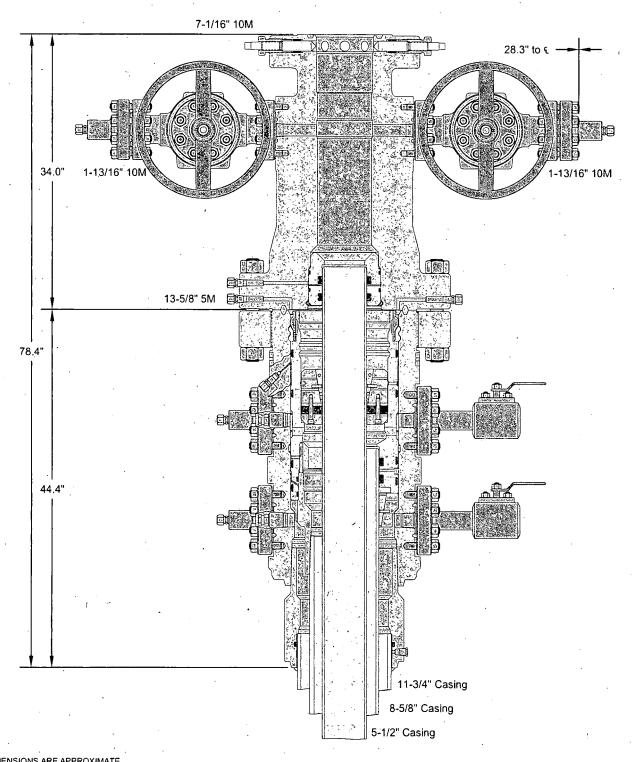
### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 640'	18-1/2"	FW/Native	8.4-9.0	45-60	NC
640' - 3440'	14-3/4"	Brine / OBM	9.0-10.2	30-32	NC
3440' to 10210'	. 10-5/8"	FW/Cut Brine	8.7-10.0	30-32	NC
10210' to 21659'	7-7/8"	FW / Cut Brine / Polymer / OBM	10.1 - 10.9	29-32	NC - 20

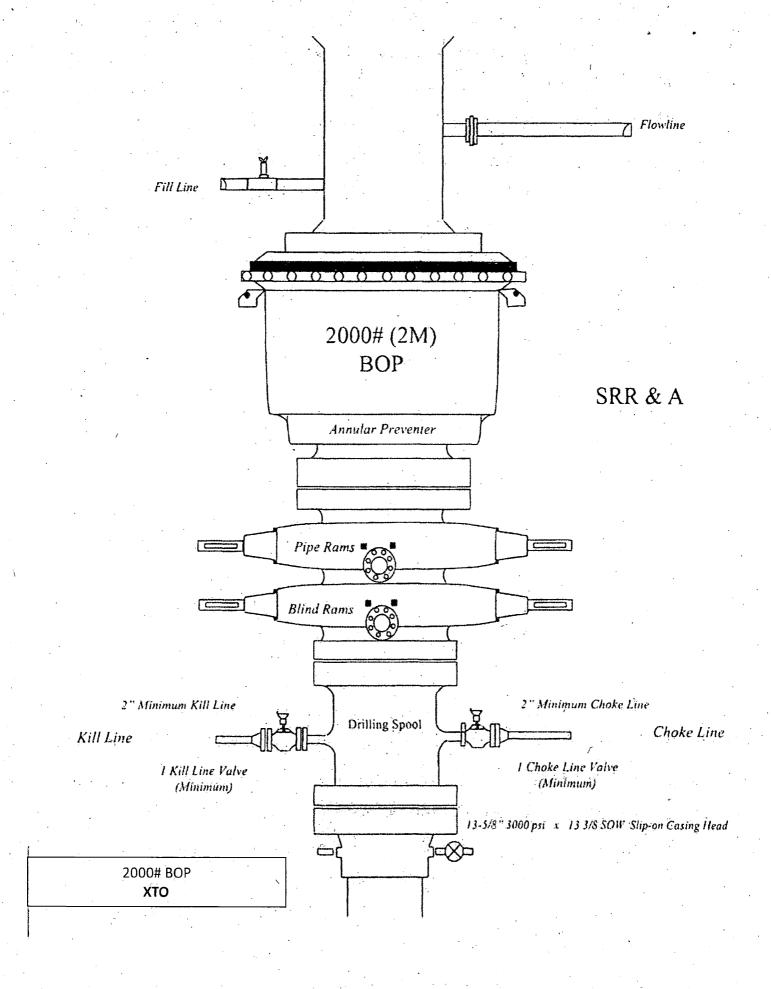
The necessary mud products for weight addition and fluid loss control will be on location at all times.

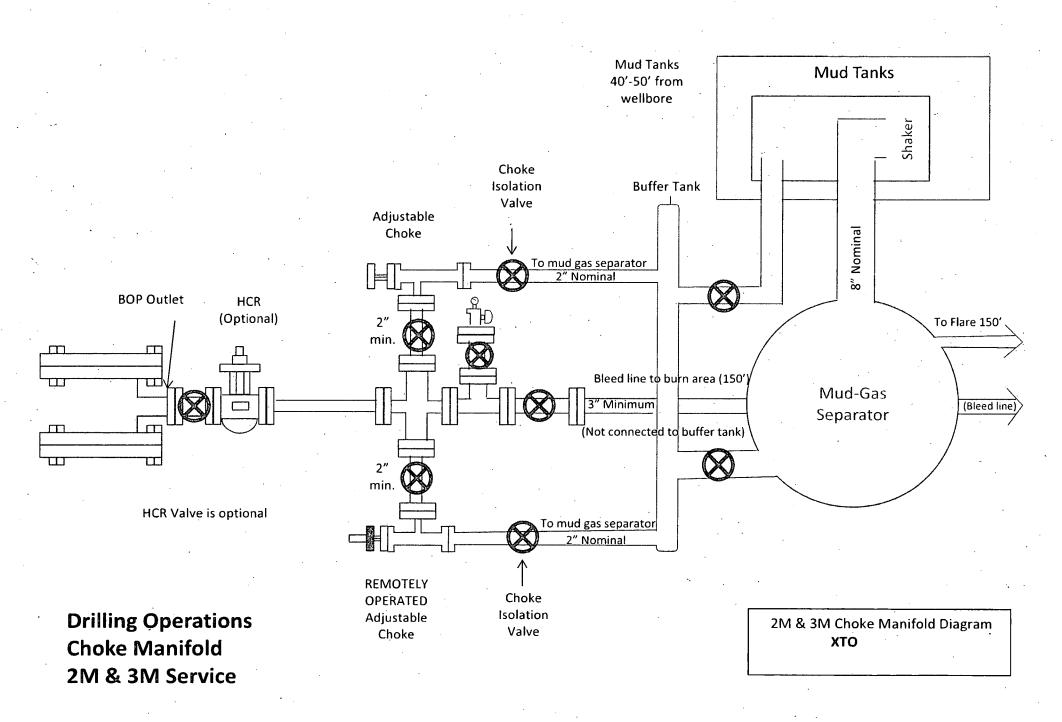
Spud with fresh water/native mud. Drill out from under 16" surface casing with brine solution. A 9.0ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump 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.

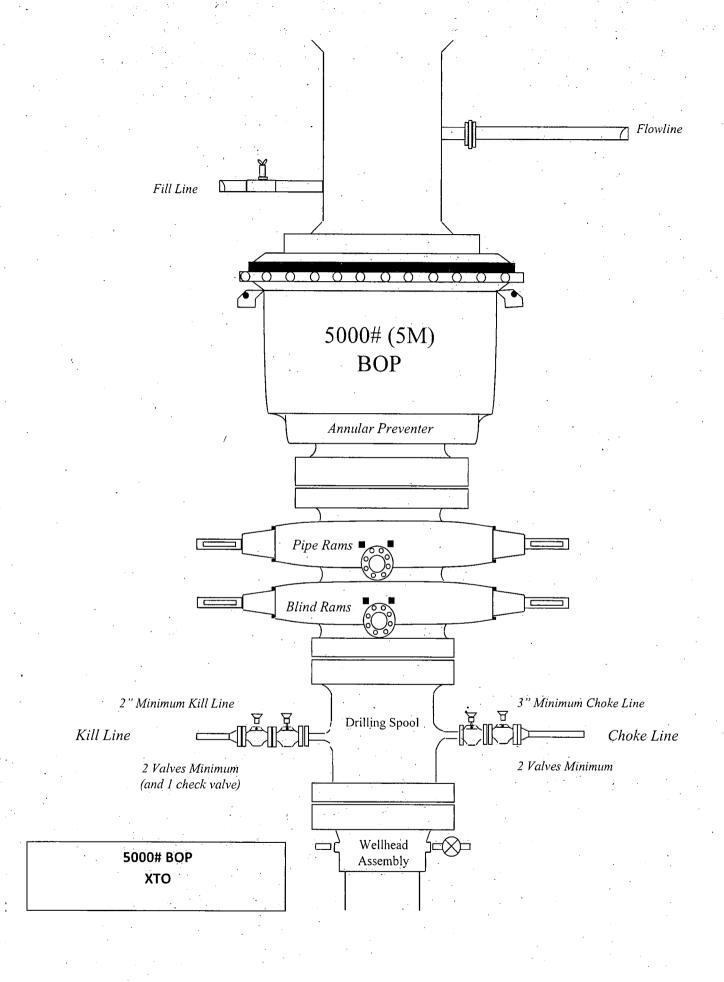


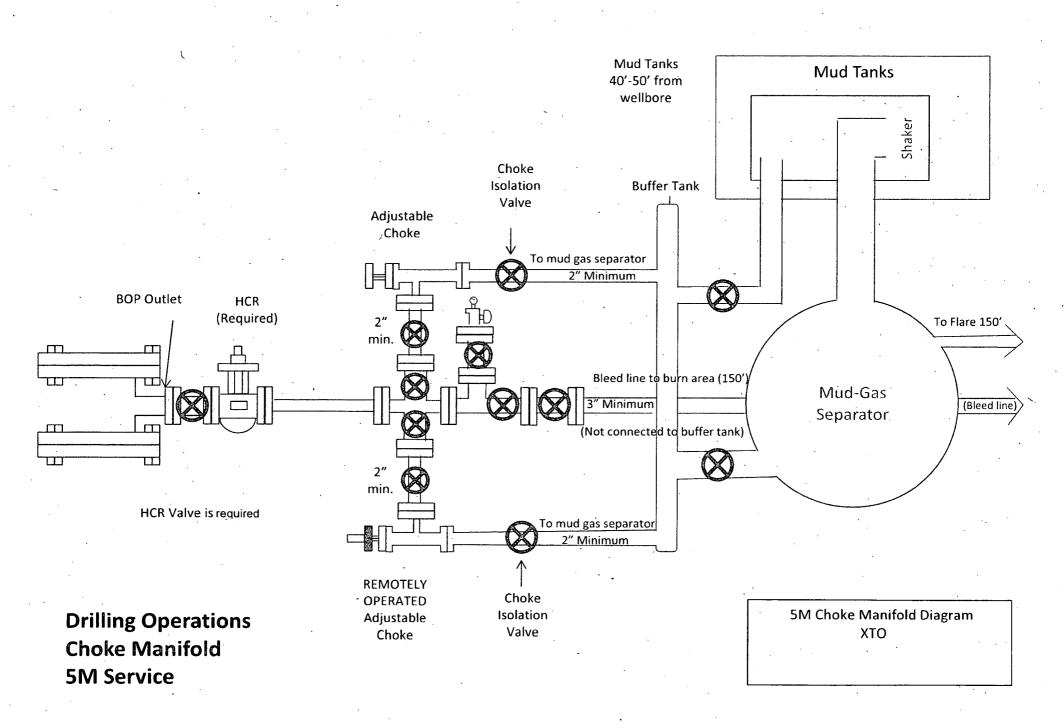


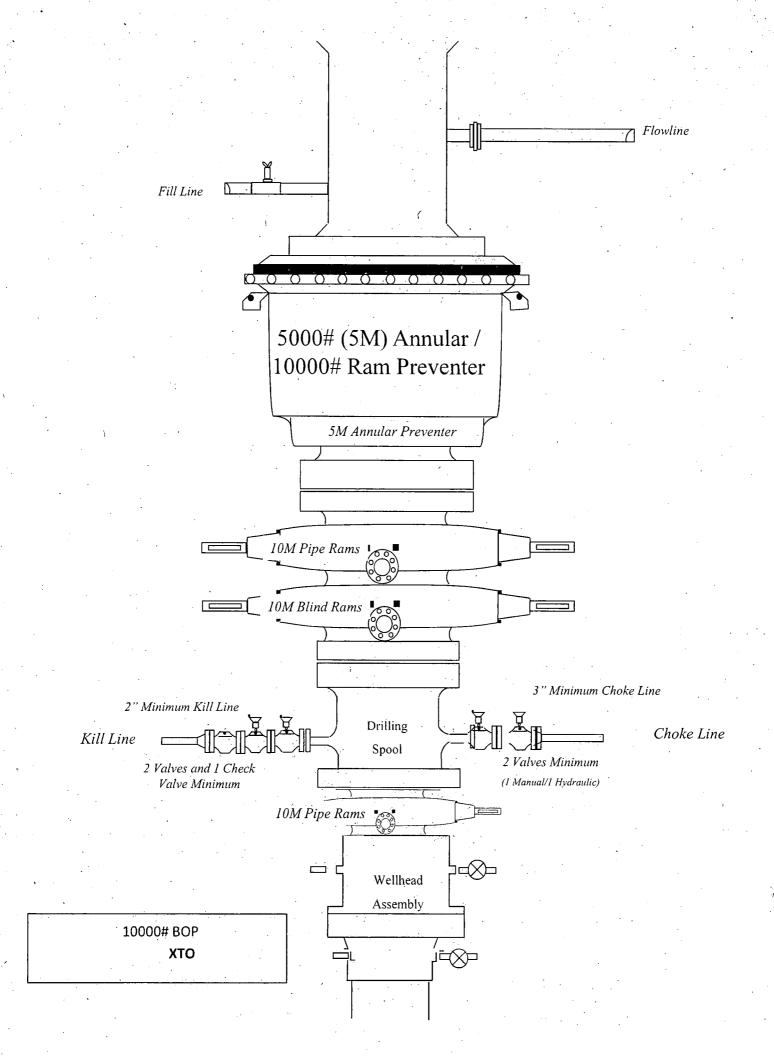
# This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing. 11-3/4" x 8-5/8" x 5-1/2" 10M RSH-2 Wellhead Assembly, With T-EBS-F Tubing Head Or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP. DRAWN VJK 310CT16 APPRV KN 310CT16 FOR REFERENCE ONLY DRAWING NO. 10012358

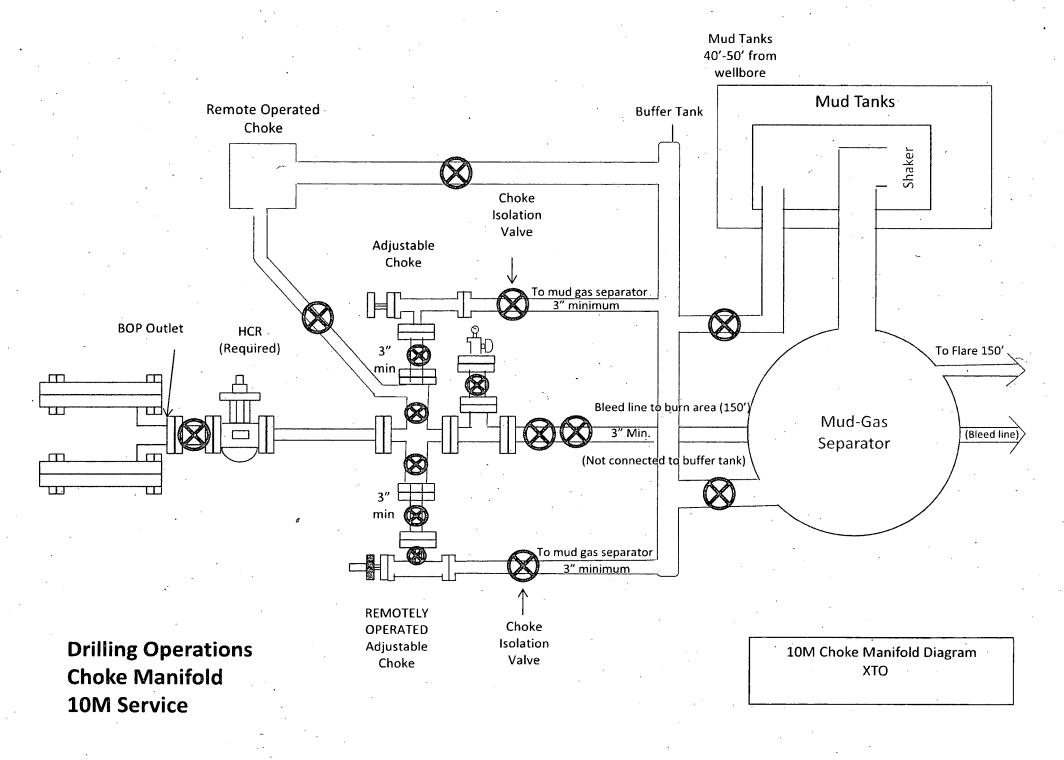












### 10,000 PSI Annular BOP Variance Request

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 So 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



GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

EMAIL: crpe&s@gates.com

WEB: www.gates.com

# GRADE D PRESSURE TEST CERTIFICATE

Customer : Customer Ref. :	AUSTIN DISTRIBUTING PENDING	Test Date: Hose Senal No.:	6/8/2010		
hvoice No. :	201709	Created By:	D-06081-1-1 MORI-IA		
roduct Description:		FD3.042.0R41/16.5KFLGE/E	LF.		
nd Pilling 1:	4 1/15 m.5K FLG	End Fitting 2 :	4 1/16 in 5K FLG		
alos Part No. :	4774-6001	Assembly Code :			
Herking Pressure 1	5,000 PS!	Test Pressure :	L33090011513D-060814-1		

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:

Cate:

Signature :

QUALITY

1 6/8/20147

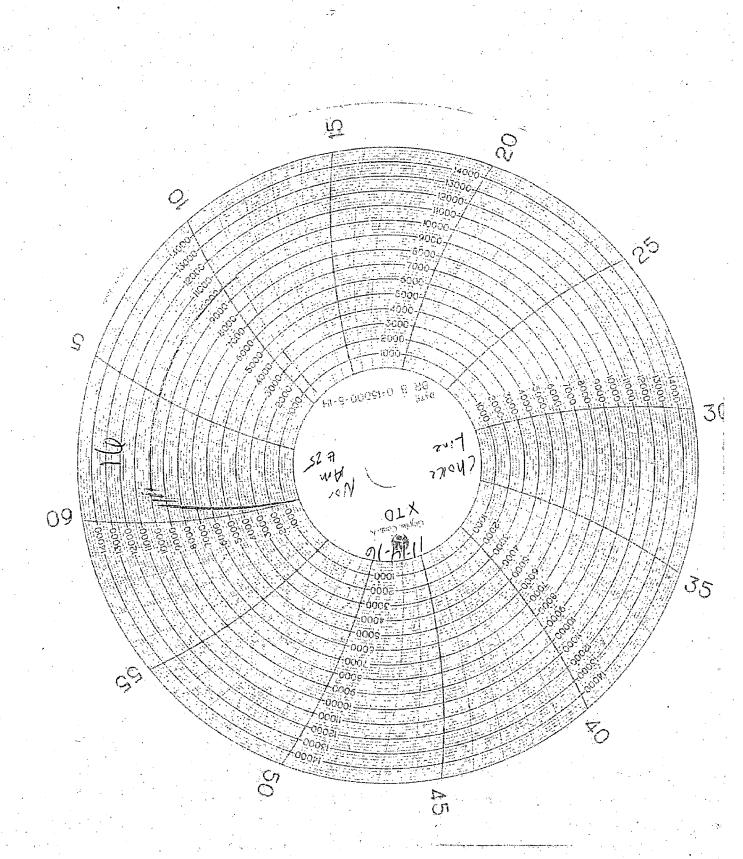
Technical Supervisor:

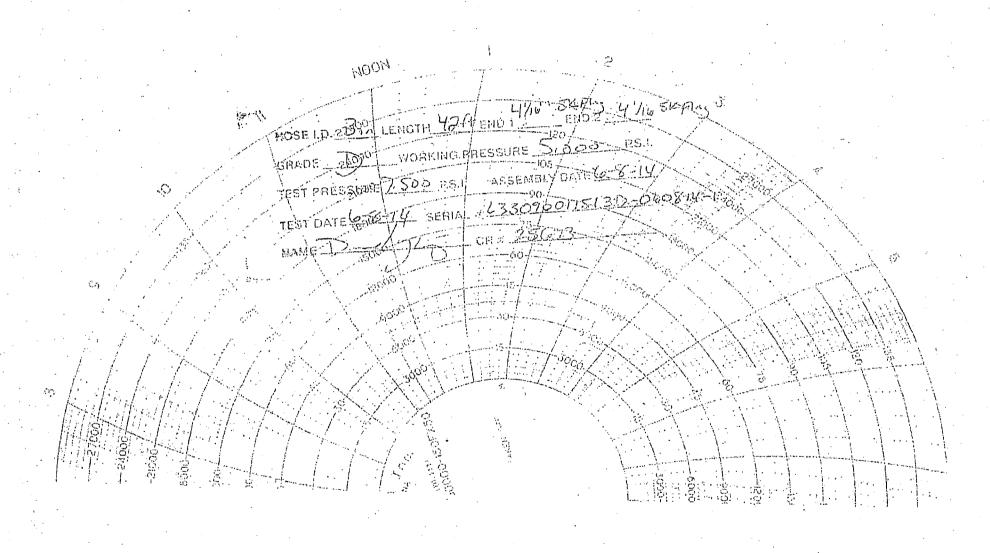
Date :

Signature :

PRODUCTION

Form PTC - 01 Rev.0 2







# **XTO Energy**

Eddy County, NM PLU 20 Brushy Draw PLU 20 Brushy Draw 121H [FKA 901H]

Wellbore #1

Plan: plan1

# **Standard Planning Report**

31 May, 2019







EDM-5000:14 Single User Db Local Co-ordinate Reference Well PLU 20 Brushy Draw 121H [FKA 901H] XTO Energy Company TVD Reference: GL 3160' + 31' KB @ 3191.00usft (Nabors (F34) Eddy County, NM MD Reference GL 3160' + 31' KB @ 3191 00usft (Nabors PLU 20 Brushy Draw North Reference: Well: PLU 20 Brushy Draw 121H [FKA 901H] Survey Calculation Method Minimum Curvature Wellbore #1 Wellbore:

System Datum:

Eddy County- NM

Map System:

US State Plane 1927 (Exact solution)

Geo Datum:

NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

PLÚ 20 Brushy Draw

Site Position:

From:

Мар

Northing:

Easting:

403,644.60 usft 631,035.20 usft

Latitude: Longitude:

Mean Sea Level

32° 6' 32,501 N 103° 54' 36,475 W

Position Uncertainty:

0.00 usft Slot Radius: 13-3/16 "

**Grid Convergence:** 

PLU 20 Brushy Draw 121H [FKA 901H]

Well Position

+N/-S +E/-W 0.40 usft

Northing: Easting:

403,645.00 usft 631,065.30 usft

Latitude: Longitude: 32° 6' 32,504 N

**Position Uncertainty** 

30,10 usft 0.00 usft

Wellhead Elevation:

103° 54' 36,125 W

Ground Level:

3,160,00 usft

ield Strength /(nT) **HDGM** 04/29/19 47,837.10000000

Design 🐍 😘 **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 Depth From (TVD) Direction 0.00 0.00 0.00 179.77

Plan Survey/Tool Program Date 05/31/19

Depth From

Depth To

》。(usft))

(usft), Survey (Wellbore)

21,651.49 plan1 (Wellbore #1)

Dinication

A008Mb\_MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-St

Measured Depth	Inclination	Azimuth)	Vertical Depth (usft)	+N/-S! (usft)	+E/-W (usft) (	Dogleg Rate (*/100usft)	Build Rate (°/100usft) (	Turn) Rate (*) ?/100usft)	TEO	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,537.90	0.00	0.00	10,537.90	0,00	0.00	0.00	0.00	0.00	0.00	
10,987.90	45.00	204.50	10,943.04	-152.71	-69.59	10.00	10.00	0.00	204.50	
11,488.24	90.00	179.77	11,132.13	-592.13	-146.94	10.00	8.99	-4.94	-33.08	
21,651.49	90.00	179.77	11,133.00	-10,755.30	-106.80	0.00	0.00	0.00	0.00	PLU 20 Brushy Draw





EDM 5000.14 Single User Db Company:

XTO Energy

Project: Eddy County, NM

PLU 20 Brushy Draw Well:

PLU 20 Brushy Draw 121H [FKA 901H] Wellbore #1 Wellbore:

Design: plan1 ∸Local Co-ordinate Reference: CTVD Reference:

MD Reference:

North Reference: Survey Calculation Method

Well PLU 20 Brushy Draw 121H [FKA 901H] GL 3160' + 31' KB @ 3191 00usft (Nabors F34)

GL 3160' + 31' KB @ 3191,00usft (Nabors

F34) Grid

(F 2017) 10 10 10 10 10 10 10 10 10 10 10 10 10	ر بالان مشرم شعب الاستان الاست المستان المستان	فيحدم بمحرجه وسابد كالكليد	mande in the second second	and the same and the		1	ميون بوديد تعديد	and the state of the state of	war to the same of the same of the same of
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Planned Survey.	isi Tanggaran salah	are to a windown in the	and varieties and the control of	Carlo Company of the	. व - राष्ट्रवेद प्रथम	י. בינו היינוער בינוער מינוער אויי אינו אויי	والمحاور والوجود والسجاراتين	i. Ligaren 19 anterioria eta 1	management of Control of the Control
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Measured			Vertical		<b>"大利"。</b>	Vertical 🖟 🕌	Dogleg 🔊 🔭	Build	Turn
Carried Towns of the Control of the			26. 2 See 7 Table		77 . D. C. B. C.		Charles of the Land St. Co.	or Karacon Land of State Co.	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Azimuth,	Depth	さった はつこうこう 大変をない こくいうきょく	5月、アウがたけるとき	Section	Rate	Rate	Rate
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300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
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1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
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3,100.00	0.00	0,00	3,100.00	0.00	0,00	0.00	0.00	0.00	0.00





EDM 5000 14 Single User Db XTO Energy Company:

Eddy County, NM

Project: Site:

PLU 20 Brushy Draw

Well:

PLU 20 Brushy Draw 121H [FKA 901H]

Wellbore #1

Local Co-ordinate Reference

TVD Reference

MD Reference

North Reference: Survey Calculation Method

Well PLU 20 Brushy Draw 121H [FKA 901H] GU 3160 + 31 KB @ 3191 00 usft (Nabors

GL 3160 + 31 KB @ 3191 00usft (Nabors F34)

Grid

Design: plan1	adilleria del cara el Educado Cara a acronimiento y sur conserva						
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riamieu Sulvey		STATES IN	GOLD WAR	erickieren.			
Measured	Vertical			Vertical .	Dogleg"	Build	Turn
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EDM 5000.14 Single User Db Company::

XTO Energy

Eddy County, NM

PLU 20 Brushy Draw

PLU 20 Brushy Draw 121H [FKA 901H] Wellbore #1

Local Co-ordinate Reference:

MD Reference

North Reference: Survey Calculation Method:

Well-PLU 20 Brushy Draw 121H [FKA 901H] GL 3160! + 31 KB @ 3191,00usft (Nabors F34)

GL 3160' + 31' KB @ 3191.00usft (Nabors

Grid

Wellbo Design		VVellbore.#1 plan1									A. C. C.
Planne	ed Survey	TATERAN TORU	A STANSON TO STANS	rances many res	er chaire ser	Pan serve see . e to	The property and	iable : "Ale : 1982;	andria california Parti par interaction	er development	Secretary Secretary
							TANKE PARK				
	Measured			. Vertical 👢			Vertical	Dogleg	Build	Turn	2
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	Start Build 10	.00								•	
	10,600.00	6.21	204.50	10,599.88	-3`,06	-1.39	3.05	10.00	10.00	0.00	
	10,700.00	16,21	204.50	10,697.85	-20.73	-9.45	20,69	10.00	10.00	0.00 .	
	10,800.00	26,21	204.50	10,790.95	-53,61	-24.43	53,51	10.00	10,00	0.00	
	10,900.00	36,21	204.50	10,876,37	-100,70	<b>-4</b> 5.89	100.51	10.00	10,00	0.00	
	10,987.90	45.00	204.50	10,943.04	-152,71	-69.59	152.42	10.00	10.00	0.00	
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	11,000.00	46.02	203,58	10,951.52	-160.59	-73.11	160.29	10.00	8.41	-7.58	
	11,100.00	54.66	197.03	11,015.33	-232.74	-99,51	232.34	10,00	8.64	-6.56	
	11,200.00	63.59	191.76	11,066.62	-315.79	-120.64	315.31	10.00	8.93	-5.26	
[	11,300.00	72.68	187.27	11,103.85	-407,21	-135.84	406.67	10,00			
	11,400.00	81.86	183.20	11,105.85	-504.23	-135.64 -144.67	503.64	10,00	9,09 9,18	-4.50 -4.07	
	11,488.24	90.00	179.77	11,123.57	-592.13	-146.94	591.53	10.00	9.16	-4.07 3.89	
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Ì	11,557.81	90.00	179.77	11,132,14	-661,70	-146.67	661,11	0.00	0.00	0.00	
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	11,700.00 11,800.00	90.00 90.00	179,77	11,132.15	-803.89	-146.10	. 803.29	0.00	0,00	0.00	
	11,900.00	90.00	179.77 179.77	11,132.16 11,132.17	-903,89 -1,003,89	-145.71 -145.31	903,29	0.00	0.00	0.00	
	12,000.00	90.00	179.77	11,132.17	-1,103.89	-144.92	1,003.29 1,103.29	0,00	0.00 0.00	0.00 0.00	
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	12,100.00	90.00	179.77	11,132.18	-1,203.88	-144.52	1,203.29	0.00	0.00	0.00	
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	12,400.00	90.00	179.77	11,132.20 11,132.21	-1,403.88 -1,503.88	-143.73	1,403.29	0.00	. 0,00	0.00	
	12,500.00	90.00	179.77	11,132.21	-1,603.88	-143.34 -142.94	1,503.29 1,603.29	0.00 , 0.00	0.00 0.00	0.00 0.00	
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	12,600 <u>.</u> 00 12,700.00	90.00	179.77	11,132.23	-1,703.88	-142.55	1,703.29	0.00	0.00	0.00	
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l	12,900.00	90.00	179.77	11,132.25	-2,003.88	-141.76 -141.36	1,903,29 2,003,29	0,00 0,00	0.00 0.00	0.00 0.00	
	13,000.00	90.00	179.77	11,132.26	-2,103,88	-140.97	2,103.29	0.00	0.00	0.00	
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1	13,300.00	90,00 90.00	179.77 179.77	11,132,28	-2,303.88	-140.18	2,303.29	0.00 .	0.00	0.00	
	13,400.00	90.00	179.77	11,132.29 11,132.29	-2,403.87 -2,503.87	-139.78 -139.39	2,403.29 2,503.29	0.00 0.00	0:00 0.00	0.00	
,	13,500.00	90.00	179.77	11,132.30	-2,603.87	-138.99	2,603.29	0.00	0.00	0.00 0.00	
						*					
	13,600.00	90.00	179.77	11,132.31	-2,703.87	-138.60	2,703.29	0.00	0.00	0.00	
	13,700.00 13,800.00	90,00 90,00	179,77 · 179,77	11,132.32 11,132.33	-2,803.87	-138.20	2,803.29	0.00	0.00	0.00	
	13,900.00	90.00	179.77	11,132.33	-2,903.87 -3,003.87	-137.81 -137.41	2,903,29	0.00	0.00	0.00.	
	14,000.00	90.00	179.77	11,132.34	-3,003.87 -3,103.87	-137.41 -137.02	3,003.29 3,103.29	0.00 0.00	0.00	0.00	
	•									0.00	
	14,100.00	90.00	179.77	11,132.35	-3,203,87	-136.63	3,203.29	0.00	0.00	0.00	
ļ	14,200.00	90.00	179.77	11,132.36	-3,303.87	-136.23	3,303.29	0.00	0.00	0.00	
	14,300.00	90.00	179.77	11,132.37	-3,403.87	-135.84	3,403.29	0.00	0.00	0.00	
	14,400.00 14,500.00	90.00	179.77 179.77	11,132.38	-3,503.87	-135,44	3,503.29	0.00	0.00	0.00	
	•			11,132,39	-3,603.87	-135.05	3,603.29	0.00	0.00	0.00	
<u> </u>	14,600.00	90.00	179.77	11,132.40	-3,703,86	-134.65	3,703.29	0.00	0.00	0.00	





EDM 5000:14 Single User Db XTO Energy Company:

Eddy County, NM

Site: Well: Wellbore: PLU 20 Brushy Draw PLU:20 Brushy Draw 121H [FKA 901H] Wellbore #1

Local Co-ordinate Reference
TVD Reference:

MD Reference

North Reference Survey Calculation Method:

Well PLU-20 Brushy Draw-121H [FKA 901H] GL 3160' + 31' KB @ 3191.00ush (Nabors F34) GL 3160' + 31' KB @ 3191.00ush (Nabors F34)

Grid.

Page	Design:	plan1	olin alaaningastalimas aansta	and was the first service of the ser						3
	Planned Survey	Called the State (	anna viis merciade at a	DEPOSITE LIBRATION	THE RESIDENCE	PERSONAL MANAGER	recommendation	en naceman producer	a anominações e a re	FEETE BY TO LEAD WE WANTED
Peth   Column   Peth   Column   Peth   Column   Peth   Column			215家野外							
	Measured	45 C 110 M	では構成さ				Vertical .	Dogleg	Build	Turn
14700.00   50.00   179.77   11,132.41   2,003.66   134.26   3,003.25   0,00   0,00   0,00   1,00	16 Y コニスを超えたが、 第二の2000 ビニュー	1.57 TO 10 TO 10 TO 1 TO 10 TO			+N/-S# 1	÷E/-W		of the second second second	C.C.新生活、新子母。 15.	Rate 🔭 🔭
14800.00   90.00   179.77   11.132.41   3.903.86   -133.86   3.303.29   0.00   0.00   0.00   0.00   15000.00   90.00   179.77   11.132.43   4.103.86   -133.07   4.103.26   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.43   4.403.86   -132.88   4.303.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.45   4.403.86   -132.28   4.303.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.45   4.403.86   -132.28   4.303.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.47   4.503.86   -131.49   4.503.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.47   4.503.86   -131.49   4.503.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.45   4.403.86   -131.00   4.503.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.45   4.403.86   -130.70   4.403.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.50   4.503.86   -129.91   4.903.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.50   4.503.86   -129.91   4.903.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.50   4.503.86   -129.11   4.903.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.50   4.503.85   -129.12   4.503.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.55   -5.003.85   -129.12   4.503.29   0.00   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.55   -5.003.85   -129.12   4.503.29   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.55   -5.503.85   -129.13   4.503.29   0.00   0.00   0.00   15.500.00   90.00   179.77   11.132.55   -5.503.85   -125.55	(üsft)	(°) (°)	(1)较少	(usft)	(usft)	🚓 (üsft) 🕌	(usft)	(°/100usft) 🔭 (	°/100usft),	(°/100usft)
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15,000.00 90.00 179.77 11,132.43 -4,103.86 133.07 4,102.28 0,00 0,00 0,00 15,200.00 90.00 179.77 11,132.45 -4,303.86 132.28 4,303.23 0,00 0,00 0,00 15,200.00 90.00 179.77 11,132.47 -4,503.86 131.89 4,303.23 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.47 -4,503.86 131.89 4,503.23 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.47 -4,503.86 131.89 4,503.23 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.47 -4,503.86 131.90 4,503.23 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.49 -4,503.86 131.90 4,503.23 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.49 -4,503.86 130.31 4,503.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.49 -4,503.86 130.31 4,503.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.59 1,5003.85 1,203.91 4,503.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.59 1,5003.85 1,203.91 4,503.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.59 1,5003.85 1,203.91 4,503.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.59 1,5003.85 1,203.91 5,003.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.53 1,5003.85 1,203.93 1,203.29 0,00 0,00 0,00 15,500.00 90.00 179.77 11,132.54 5,403.86 1,203.85 1,20								0.00	0.00	0.00
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17,800.00 90.00 179.77 11,132.67 -6,903.84 -122.01 6,903.29 0.00 0.00 0.00 0.00 17,900.00 90.00 179.77 11,132.68 -7.003.84 -121.62 7,003.29 0.00 0.00 0.00 0.00 18,000.00 90.00 179.77 11,132.69 -7,103.84 -121.22 7,103.29 0.00 0.00 0.00 0.00 18,100.00 90.00 179.77 11,132.70 -7.203.84 -120.83 7,203.29 0.00 0.00 0.00 0.00 18,200.00 90.00 179.77 11,132.71 -7,303.84 -120.43 7,303.29 0.00 0.00 0.00 0.00 18,300.00 90.00 179.77 11,132.71 -7,403.84 -120.04 7,403.29 0.00 0.00 0.00 0.00 18,500.00 90.00 179.77 11,132.72 -7,503.84 -119.64 7,503.29 0.00 0.00 0.00 0.00 18,500.00 90.00 179.77 11,132.73 -7,603.83 -119.25 7,603.29 0.00 0.00 0.00 0.00 18,600.00 90.00 179.77 11,132.74 -7,703.83 -118.85 7,703.29 0.00 0.00 0.00 0.00 18,700.00 90.00 179.77 11,132.74 -7,703.83 -118.85 7,703.29 0.00 0.00 0.00 0.00 18,700.00 90.00 179.77 11,132.75 -7,803.83 -118.46 7,803.29 0.00 0.00 0.00 0.00 18,800.00 90.00 179.77 11,132.77 -8,003.83 -118.46 7,803.29 0.00 0.00 0.00 0.00 18,800.00 90.00 179.77 11,132.77 -8,003.83 -118.46 7,803.29 0.00 0.00 0.00 0.00 18,900.00 179.77 11,132.77 -8,003.83 -118.66 7,903.29 0.00 0.00 0.00 0.00 19,000 179.77 11,132.77 -8,103.83 -117.67 8,003.29 0.00 0.00 0.00 0.00 19,000 179.77 11,132.77 -8,103.83 -117.67 8,003.29 0.00 0.00 0.00 0.00 19,000 90.00 179.77 11,132.77 -8,103.83 -116.88 8,203.29 0.00 0.00 0.00 0.00 19,200.00 90.00 179.77 11,132.78 -8,203.83 -116.88 8,203.29 0.00 0.00 0.00 0.00 19,200.00 90.00 179.77 11,132.81 -8,503.83 -116.48 8,303.29 0.00 0.00 0.00 0.00 19,400.00 90.00 179.77 11,132.81 -8,503.83 -116.48 8,303.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8,603.83 -116.69 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8,603.83 -116.69 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.81 -8,503.83 -116.69 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.81 -8,503.83 -116.98 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8,603.83 -116.98 8,503.29 0.00 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.83 -8,803.83 -114.51 8,803.29 0.00 0.0			179.77	11,132.65	-6,703.84	-122.80	6,703.29	0.00	0.00	0.00
17,900.00 90.00 179.77 11,132.68 -7.003.84 -121.62 7,003.29 0.00 0.00 0.00 0.00 18,000.00 90.00 179.77 11,132.69 -7.103.84 -121.22 7,103.29 0.00 0.00 0.00 0.00 18,100.00 90.00 179.77 11,132.70 -7.203.84 -120.83 7,203.29 0.00 0.00 0.00 0.00 18,200.00 90.00 179.77 11,132.71 -7.303.84 -120.43 7,303.29 0.00 0.00 0.00 0.00 18,300.00 90.00 179.77 11,132.71 -7.403.84 -120.43 7,303.29 0.00 0.00 0.00 0.00 18,400.00 90.00 179.77 11,132.72 -7.503.84 -119.64 7,503.29 0.00 0.00 0.00 0.00 18,500.00 90.00 179.77 11,132.73 -7.603.83 -119.25 7,603.29 0.00 0.00 0.00 0.00 18,500.00 90.00 179.77 11,132.74 -7.703.83 -118.85 7,703.29 0.00 0.00 0.00 0.00 18,700.00 90.00 179.77 11,132.75 -7.803.83 -118.86 7,803.29 0.00 0.00 0.00 0.00 18,800.00 90.00 179.77 11,132.75 -7.803.83 -118.66 7,803.29 0.00 0.00 0.00 0.00 18,900.00 90.00 179.77 11,132.75 -7.803.83 -118.66 7,903.29 0.00 0.00 0.00 0.00 19,000 90.00 179.77 11,132.77 -8.003.83 -117.67 8,003.29 0.00 0.00 0.00 0.00 19,000.00 90.00 179.77 11,132.77 -8.003.83 -117.67 8,003.29 0.00 0.00 0.00 0.00 19,000.00 90.00 179.77 11,132.78 -8.203.83 -117.67 8,003.29 0.00 0.00 0.00 0.00 19,000.00 90.00 179.77 11,132.78 -8.203.83 -117.67 8,003.29 0.00 0.00 0.00 0.00 19,200.00 90.00 179.77 11,132.79 -8.303.83 -116.88 8,203.29 0.00 0.00 0.00 0.00 19,200.00 90.00 179.77 11,132.80 -8.203.83 -116.88 8,203.29 0.00 0.00 0.00 0.00 19,200.00 90.00 179.77 11,132.80 -8.403.83 -116.68 8,203.29 0.00 0.00 0.00 0.00 19,400.00 90.00 179.77 11,132.82 -8.603.83 -116.69 8,403.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8.603.83 -115.69 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8.603.83 -115.69 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8.603.83 -115.69 8,503.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8.603.83 -115.30 8,603.29 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8.603.83 -115.30 8,603.29 0.00 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.82 -8.603.83 -115.30 8,603.29 0.00 0.00 0.00 0.00 0.00 0.00 19,500.00 90.00 179.77 11,132.83 -	1 '								0.00	0.00
18,000.00       90.00       179.77       11,132.69       -7,103.84       -121.22       7,103.29       0.00       0.00       0.00         18,100.00       90.00       179.77       11,132.70       -7,203.84       -120.83       7,203.29       0.00       0.00       0.00         18,200.00       90.00       179.77       11,132.71       -7,303.84       -120.43       7,303.29       0.00       0.00       0.00         18,300.00       90.00       179.77       11,132.71       -7,403.84       -120.04       7,403.29       0.00       0.00       0.00         18,400.00       90.00       179.77       11,132.72       -7,503.84       -119.64       7,503.29       0.00       0.00       0.00         18,500.00       90.00       179.77       11,132.73       -7,603.83       -119.25       7,603.29       0.00       0.00       0.00         18,600.00       90.00       179.77       11,132.74       -7,703.83       -118.85       7,703.29       0.00       0.00       0.00         18,700.00       90.00       179.77       11,132.74       -7,703.83       -118.85       7,703.29       0.00       0.00       0.00       0.00         18,800.00       90.00       <										
18,100.00       90.00       179.77       11,132.70       -7.203.84       -120.83       7,203.29       0.00       0.00       0.00       0.00         18,200.00       90.00       179.77       11,132.71       -7.303.84       -120.43       7,303.29       0.00       0.00       0.00       0.00         18,300.00       90.00       179.77       11,132.71       -7.403.84       -120.04       7,403.29       0.00       0.00       0.00       0.00         18,400.00       90.00       179.77       11,132.72       -7.503.84       -119.64       7,503.29       0.00       0.00       0.00       0.00         18,600.00       90.00       179.77       11,132.73       -7,603.83       -118.85       7,703.29       0.00       0.00       0.00       0.00         18,600.00       90.00       179.77       11,132.75       -7,803.83       -118.85       7,703.29       0.00       0.00       0.00       0.00         18,700.00       90.00       179.77       11,132.75       -7,803.83       -118.46       7,803.29       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 </td <td></td>										
18,200.00       90.00       179.77       11,132.71       -7,303.84       -120.43       7,303.29       0.00       0.00       0.00         18,300.00       90.00       179.77       11,132.71       -7,403.84       -120.04       7,403.29       0.00       0.00       0.00         18,400.00       90.00       179.77       11,132.72       -7,503.84       -119.64       7,503.29       0.00       0.00       0.00         18,500.00       90.00       179.77       11,132.73       -7,603.83       -119.25       7,603.29       0.00       0.00       0.00         18,600.00       90.00       179.77       11,132.74       -7,703.83       -118.85       7,703.29       0.00       0.00       0.00         18,700.00       90.00       179.77       11,132.75       -7,803.83       -118.46       7,803.29       0.00       0.00       0.00         18,800.00       90.00       179.77       11,132.76       -7,903.83       -118.06       7,903.29       0.00       0.00       0.00         18,900.00       90.00       179.77       11,132.77       -8,003.83       -117.27       8,003.29       0.00       0.00       0.00         19,000.00       90.00       179.77				•						ĺ
18,300.00       90.00       179.77       11,132.71       -7,403.84       -120.04       7,403.29       0.00       0.00       0.00       0.00       10,00       10,00       10,00       0.00 <td></td>										
18,400.00       90.00       179.77       11,132.72       -7,503.84       -119.64       7,503.29       0.00       0.00       0.00         18,500.00       90.00       179.77       11,132.73       -7,603.83       -119.25       7,603.29       0.00       0.00       0.00         18,600.00       90.00       179.77       11,132.74       -7,703.83       -118.85       7,703.29       0.00       0.00       0.00         18,700.00       90.00       179.77       11,132.75       -7,803.83       -118.46       7,803.29       0.00       0.00       0.00         18,800.00       90.00       179.77       11,132.76       -7,903.83       -118.06       7,903.29       0.00       0.00       0.00         18,900.00       90.00       179.77       11,132.77       -8,003.83       -117.67       8,003.29       0.00       0.00       0.00         19,000.00       90.00       179.77       11,132.77       -8,103.83       -117.27       8,103.29       0.00       0.00       0.00         19,100.00       90.00       179.77       11,132.78       -8,203.83       -116.88       8,203.29       0.00       0.00       0.00         19,200.00       90.00       179.77	'									
18,500.00       90.00       179.77       11,132.73       -7,603.83       -119.25       7,603.29       0.00       0.00       0.00       0.00         18,600.00       90.00       179.77       11,132.74       -7,703.83       -118.85       7,703.29       0.00       0.00       0.00       0.00         18,700.00       90.00       179.77       11,132.75       -7,803.83       -118.46       7,803.29       0.00       0.00       0.00       0.00         18,800.00       90.00       179.77       11,132.76       -7,903.83       -118.06       7,903.29       0.00       0.00       0.00       0.00         18,900.00       90.00       179.77       11,132.77       -8,003.83       -117.67       8,003.29       0.00       0.00       0.00       0.00         19,000.00       90.00       179.77       11,132.77       -8,103.83       -117.27       8,103.29       0.00       0.00       0.00         19,100.00       90.00       179.77       11,132.78       -8,203.83       -116.88       8,203.29       0.00       0.00       0.00         19,200.00       90.00       179.77       11,132.79       -8,303.83       -116.48       8,303.29       0.00       0.00       0.	· ·									
18,700.00       90.00       179.77       11,132.75       -7,803.83       -118.46       7,803.29       0.00       0.00       0.00       0.00       0.00       1,00       0.00										
18,700.00       90.00       179.77       11,132.75       -7,803.83       -118.46       7,803.29       0.00       0.00       0.00       0.00       0.00       1,00       0.00	18,600.00	90.00	179.77	11,132.74	-7,703.83	-118.85	7,703.29	0 00	0.00	0.00
18,800.00       90.00       179.77       11,132.76       -7,903.83       -118.06       7,903.29       0.00										
19,000.00       90.00       179.77       11,132.77       -8,103.83       -117.27       8,103.29       0.00       0.00       0.00         19,100.00       90.00       179.77       11,132.78       -8,203.83       -116.88       8,203.29       0.00       0.00       0.00         19,200.00       90.00       179.77       11,132.79       -8,303.83       -116.48       8,303.29       0.00       0.00       0.00         19,300.00       90.00       179.77       11,132.80       -8,403.83       -116.09       8,403.29       0.00       0.00       0.00         19,400.00       90.00       179.77       11,132.81       -8,503.83       -115.69       8,503.29       0.00       0.00       0.00         19,500.00       90.00       179.77       11,132.82       -8,603.83       -115.30       8,603.29       0.00       0.00       0.00         19,600.00       90.00       179.77       11,132.82       -8,703.83       -114.90       8,703.29       0.00       0.00       0.00         19,700.00       90.00       179.77       11,132.83       -8,803.83       -114.51       8,803.29       0.00       0.00       0.00	18,800.00	90.00	179,77	11,132.76	-7,903.83	-118.06				
19,100.00       90.00       179.77       11,132.78       -8,203.83       -116.88       8,203.29       0.00       0.00       0.00         19,200.00       90.00       179.77       11,132.79       -8,303.83       -116.48       8,303.29       0.00       0.00       0.00         19,300.00       90.00       179.77       11,132.80       -8,403.83       -116.09       8,403.29       0.00       0.00       0.00         19,400.00       90.00       179.77       11,132.81       -8,503.83       -115.69       8,503.29       0.00       0.00       0.00         19,500.00       90.00       179.77       11,132.82       -8,603.83       -115.30       8,603.29       0.00       0.00       0.00         19,600.00       90.00       179.77       11,132.82       -8,703.83       -114.90       8,703.29       0.00       0.00       0.00         19,700.00       90.00       179.77       11,132.83       -8,803.83       -114.51       8,803.29       0.00       0.00       0.00							8,003.29	0.00	0.00	0.00
19,200.00       90.00       179.77       11,132.79       -8,303.83       -116.48       8,303.29       0.00       0.00       0.00       0.00         19,300.00       90.00       179.77       11,132.80       -8,403.83       -116.09       8,403.29       0.00       0.00       0.00       0.00         19,400.00       90.00       179.77       11,132.81       -8,503.83       -115.69       8,503.29       0.00       0.00       0.00         19,500.00       90.00       179.77       11,132.82       -8,603.83       -115.30       8,603.29       0.00       0.00       0.00         19,600.00       90.00       179.77       11,132.82       -8,703.83       -114.90       8,703.29       0.00       0.00       0.00         19,700.00       90.00       179.77       11,132.83       -8,803.83       -114.51       8,803.29       0.00       0.00       0.00	19,000.00	90.00	179.77	11,132.77	-8,103.83	-117.27	8,103.29	0.00	0.00	0.00
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EDM 5000 14 Single User Db XTO Energy Company:

Eddy County NM

PLU 20 Brushy Draw PLU 20 Brushy Draw 121H [FKA 901H] Wellbore #1

Local Co-ordinate Reference

MD Reference

North Reference: Survey Calculation Method:

Well PLU 20 Brushy Draw 121H [FKA 901H] GL 3160" + 31" KB @ 3191.00usft (Nabors F34).

GL 3160' + 31' KB @ 3191.00usft (Nabors F34)

Grid;

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Target Name hit/missitarget Dip/ -Shape	Angle DipiDir (°) (°)			+E/-W (usft)		Easting (usft)	Latitude	Longitude
PLU 20 Brushy Draw 12 - plan misses target center - Point		11,133.00 21,49usft MD		-107.00 D, -10625.30 N	393,019.70 , -107.31 E)	630,958.30	32° 4' 47.357 N	103° 54' 37.854 W
PLU 20 Brushy Draw 12 - plan hits target center - Point	0.00 0.00	11,133.00	-10,755.30	-106.80	392,889,70	630,958.50	32° 4′ 46.070 N	103° 54' 37.857 W
PLU 20 Brushy Draw 12 - plan misses target center - Point		11,133.00 57.81usft MD	-661.70 (11132.14 TV)	-146.50 D, -661.70 N, -1	402,983.30 146.67 E)	630,918.80	32° 6' 25.961 N	103° 54' 37.859 W





EDM 5000.14 Single User Db XTO Energy Local Co-ordinate Reference: Well PLU 20 Brushy, Draw 121H [FKA 901H] Database: Company: GL 3160' + 31' KB @ 3191.00usft (Nabors .F34) Eddy County, NM MD Reference GL 3160' + 31' KB @ 3191:00usft (Nabors North Reference Survey Calculation Method: F34) PLÚ 20 Brushy Draw Grid PLU 20 Brushy Draw 121H [FKA 901H] Minimum Curvature Wellbore: Wellbore #1 Design: 🛴 plan1

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4,517.00	•	CYCN			0.00	
6,104.00	6,104.00	BYCN			0.00	·
7,175.00	7,175.00	BBYCN			0,00	·
7,435.00	7,435.00	BSPG LM	•	•	0.00	
7,561.00	7,561.00	BSPG Avin SS	· ·		0.00	
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7,972.00	7,972.00	BSPG L Avin SH	•		0.00	
8,356.00	8,356.00	BSPG1 LM			0.00	
8,380.00	8,380.00	BSPG1	•		0.00	
8,809.00	8,809.00	BSPG2 LM			0.00	
9,202.00	9,202,00	BSPG2			0.00	
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## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Permian Operating, LLC

**LEASE NO.: NMLC-0064894** 

WELL NAME & NO.: | Poker Lake Unit 20 BD 901H

SURFACE HOLE FOOTAGE: 0330' FSL & 0480' FWL

BOTTOM HOLE FOOTAGE | 0200' FSL & 0330' FWL Sec. 32, T. 25 S., R 30 E.

LOCATION: Section 20, T. 25 S., R 30 E., NMPM

**COUNTY:** Eddy County, New Mexico

### **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. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. 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. 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.
- 4. 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 8 hours. 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 pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

- 1. The 16 inch surface casing shall be set at approximately 640 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.

11-3/4 1st 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 11-3/4 inch intermediate casing is:

⊠ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 11-3/4" 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.

8-5/8 2<sup>nd</sup> Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Operator has proposed DV tool at depth of 3540', 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.

a.	First stage to DV tool:	4		•	
	,		•		

- Ement 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 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 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.

- 4. 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 negative 11% Additional cement will be required.
- 5. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- 4. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 11-3/4 1<sup>st</sup> intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 11-3/4 1<sup>st</sup> intermediate casing shoe shall be 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Operator shall perform the 8-5/8" 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.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
  - 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.

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