

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
Artesia**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 20185. Lease Serial No.
NMLC063079A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000303X8. Well Name and No.
POKER LAKE UNIT 25 BD 121H9. API Well No.
30-015-45850-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 25 T25S R30E SWNW 2525FNL 522FWL
32.101574 N Lat, 103.841606 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

XTO Permian Operating, LLC requests permission to make the following changes to the original APD:

Change the casing/cement design per the attached procedure.

In additions, XTO Permian Operating, LLC XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set 7" casing 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 both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

PLU 25 BD 121H - 30-015-45850

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 21 2019

RECEIVED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #472152 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/03/2019 (19PP2711SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 07/03/2019 APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

JUL 17 2019

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 47 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RVP10-29-19

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

XTO Energy Inc.
Poker Lake Unit 25 Brushy Draw 121H
Projected TD: 20221' MD / 12326' TVD
SHL: 2525' FNL & 522' FWL , Section 25, T25S, R30E
BHL: 200' FSL & 330' FWL , Section 36, 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	1087'	Water
Top of Salt	1337'	Water
Base of Salt	3796'	Water
Delaware	4009'	Water
Bone Spring	7862'	Water
1st Bone Spring Ss	8857'	Water/Oil/Gas
2nd Bone Spring Ss	9607'	Water/Oil/Gas
3rd Bone Spring Ss	10796'	Water/Oil/Gas
Wolfcamp Shale	11167'	Water/Oil/Gas
Wolfcamp A	11281'	Water/Oil/Gas
Wolfcamp B	11660'	Water/Oil/Gas
Wolfcamp E	12201'	Water/Oil/Gas
Target/Land Curve	12326'	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 @ 1200' (137' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8" inch casing at 3908' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7-0" inch casing at 11675'. A 6-0" inch curve and lateral hole will be drilled to MD/TD and a 4-1/2 inch liner will be set at TD and cemented.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1200'	13' 3/8"	54.5	STC	J-55	New	2.25	2.08	7.86
12-1/4"	0' – 3908'	9-5/8"	40	STC	J-55	New	1.13	2.09	2.89
8-3/4"	0' – 11675'	7-0"	32	BTC	P-110	New	1.31	1.77	2.40
6-0"	11,375' – 20221'	4-1/2"	13.5	BTC	P-110	New	1.31	1.24	2.04

- XTO requests to not utilize centralizers in the curve and lateral
- 9-5/8" 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
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

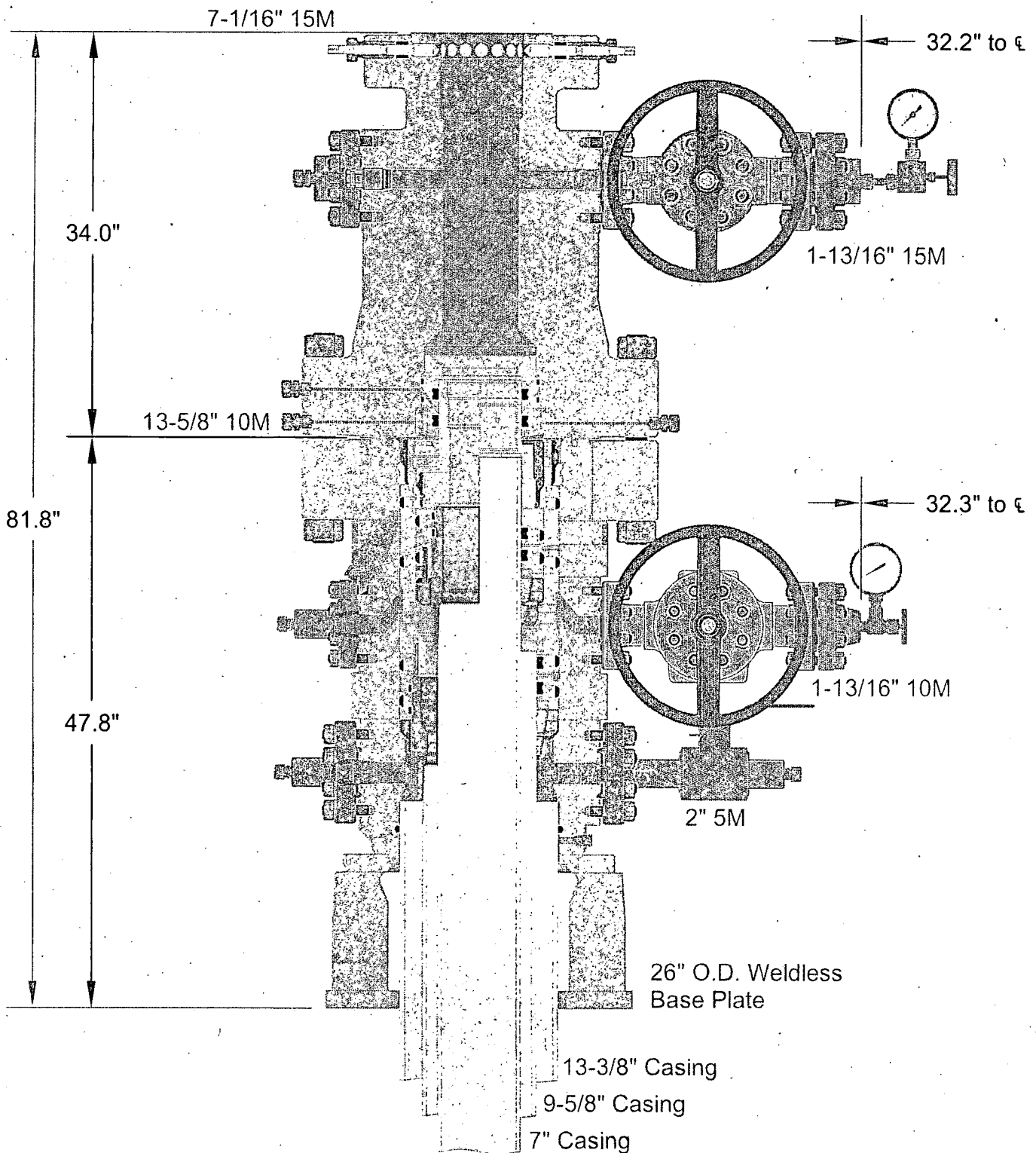
Wellhead:

Permanent Wellhead – GE RSH Multibowl System

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

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-0" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation



**BAKER
HUGHES**
a GE company



Pressure Control

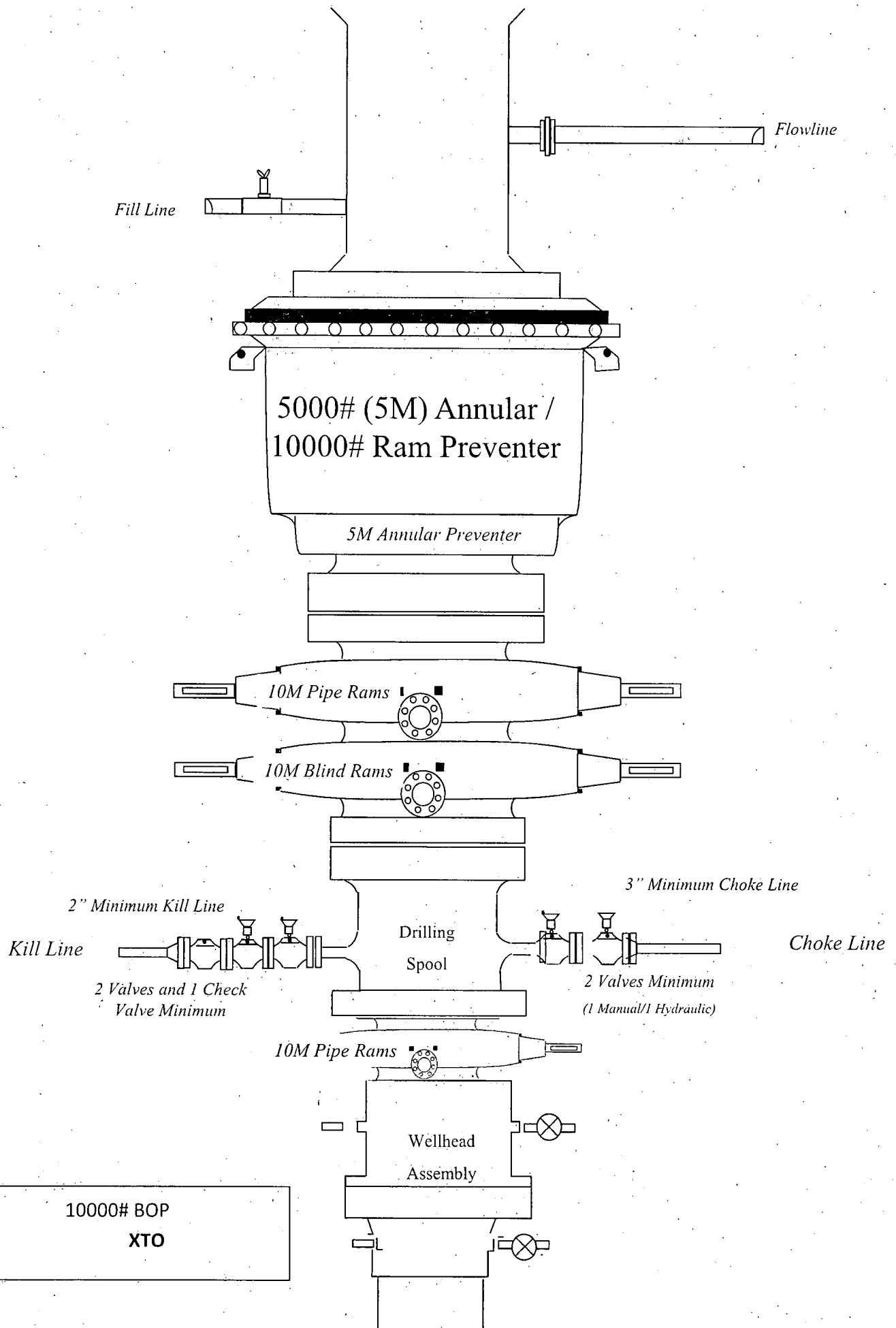
13-3/8" x 9-5/8" x 7" 15M RSH-2 Wellhead
Assembly, With T-EBS-F-HP Tubing Head

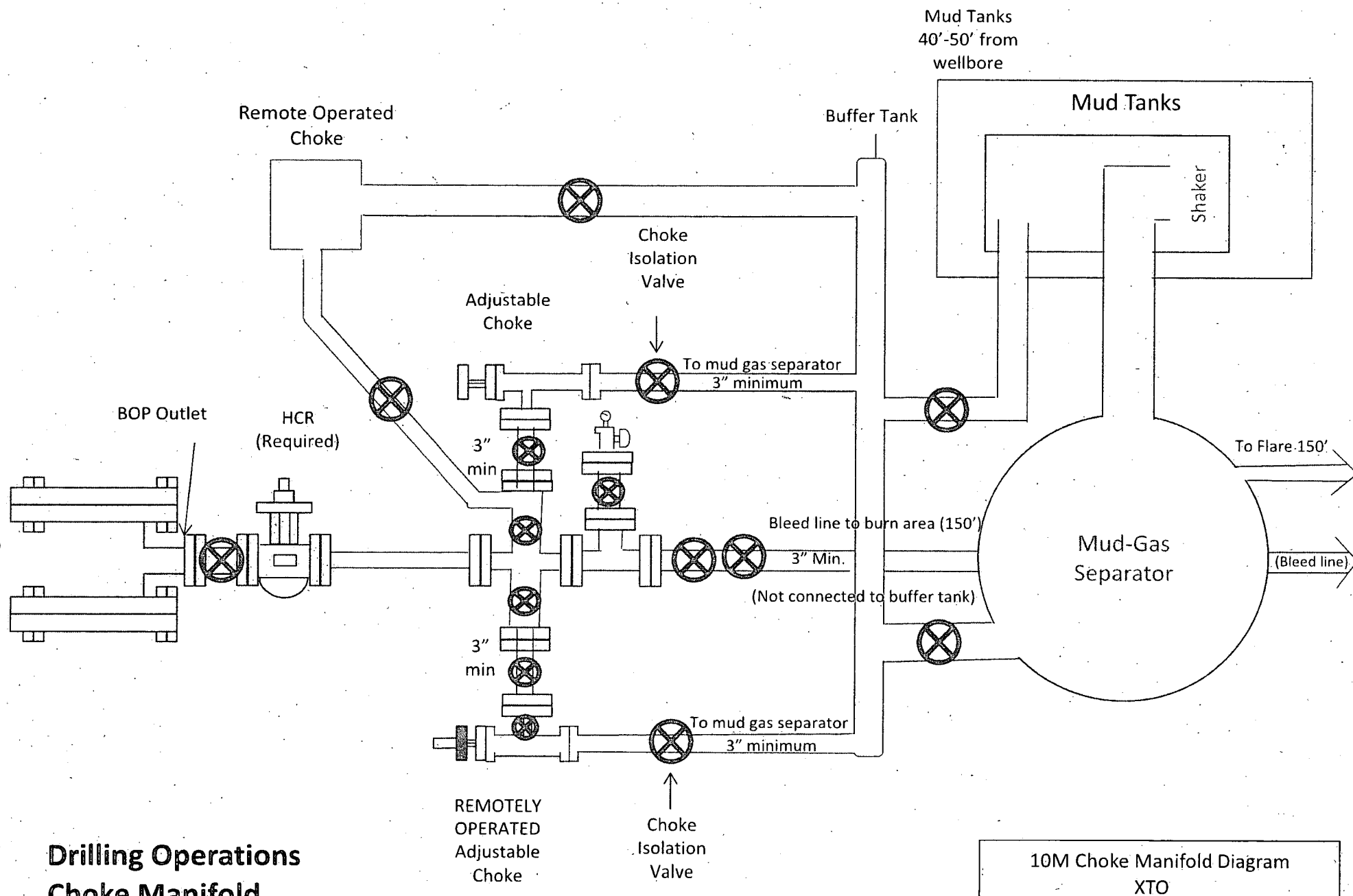
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ALL DIMENSIONS ARE APPROXIMATE. NOT FOR MANUFACTURING USE.

DRAWN BY:	VJK	DRAWING NO.	HP180197
REVIEWED BY:		Rev.	NC
APPROVED BY:		DATE:	31OCT18
		Sht.	1 of 1

XTO ENERGY, INC.





Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO

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 Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 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.

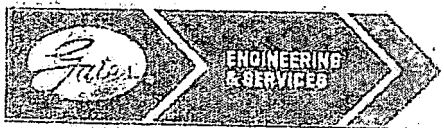
General Procedure With No Pipe In Hole (Open Hole)

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

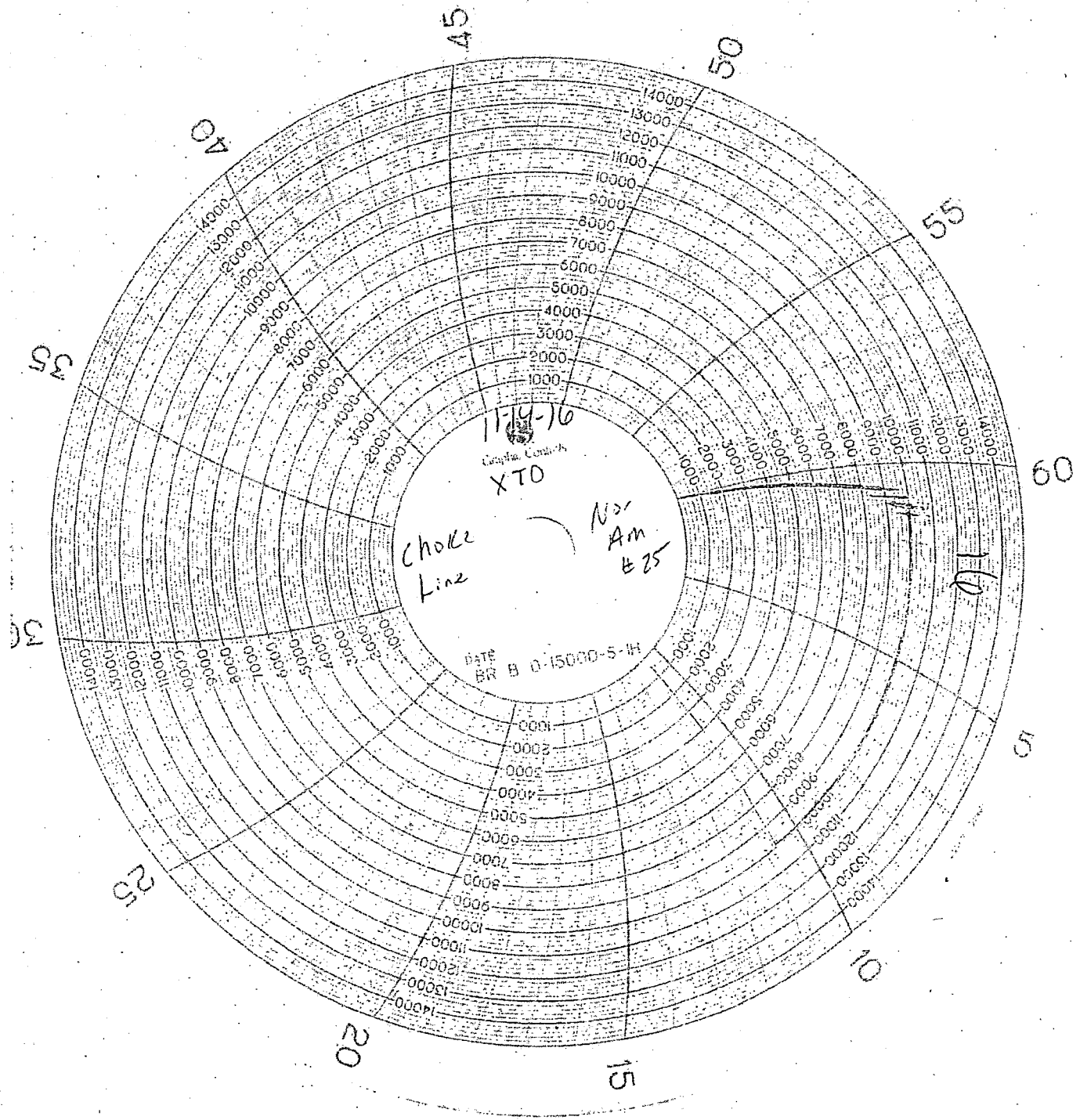
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

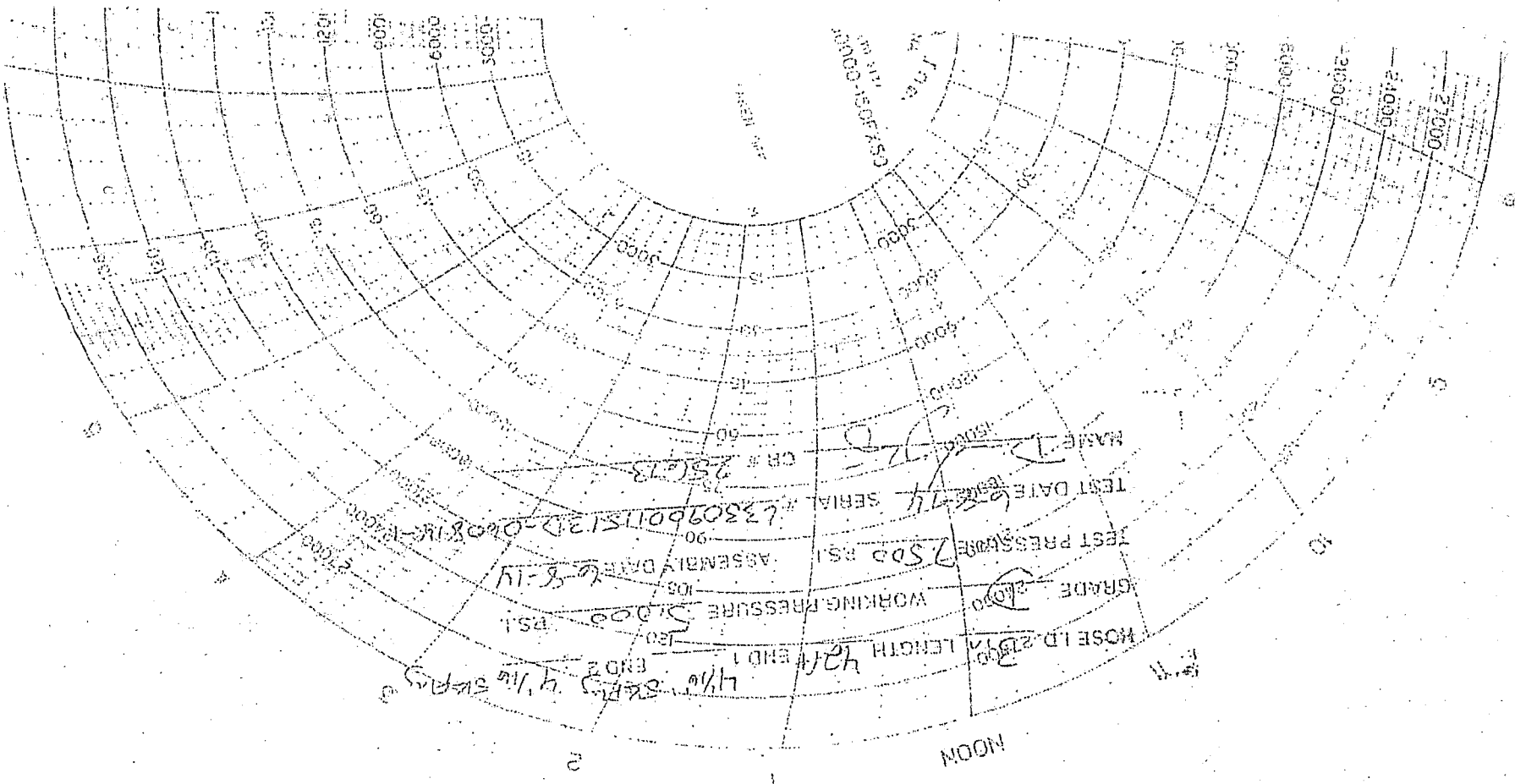
GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.0-12.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in. SK FLG	End Fitting 2 :	4 1/16 in. SK FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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.

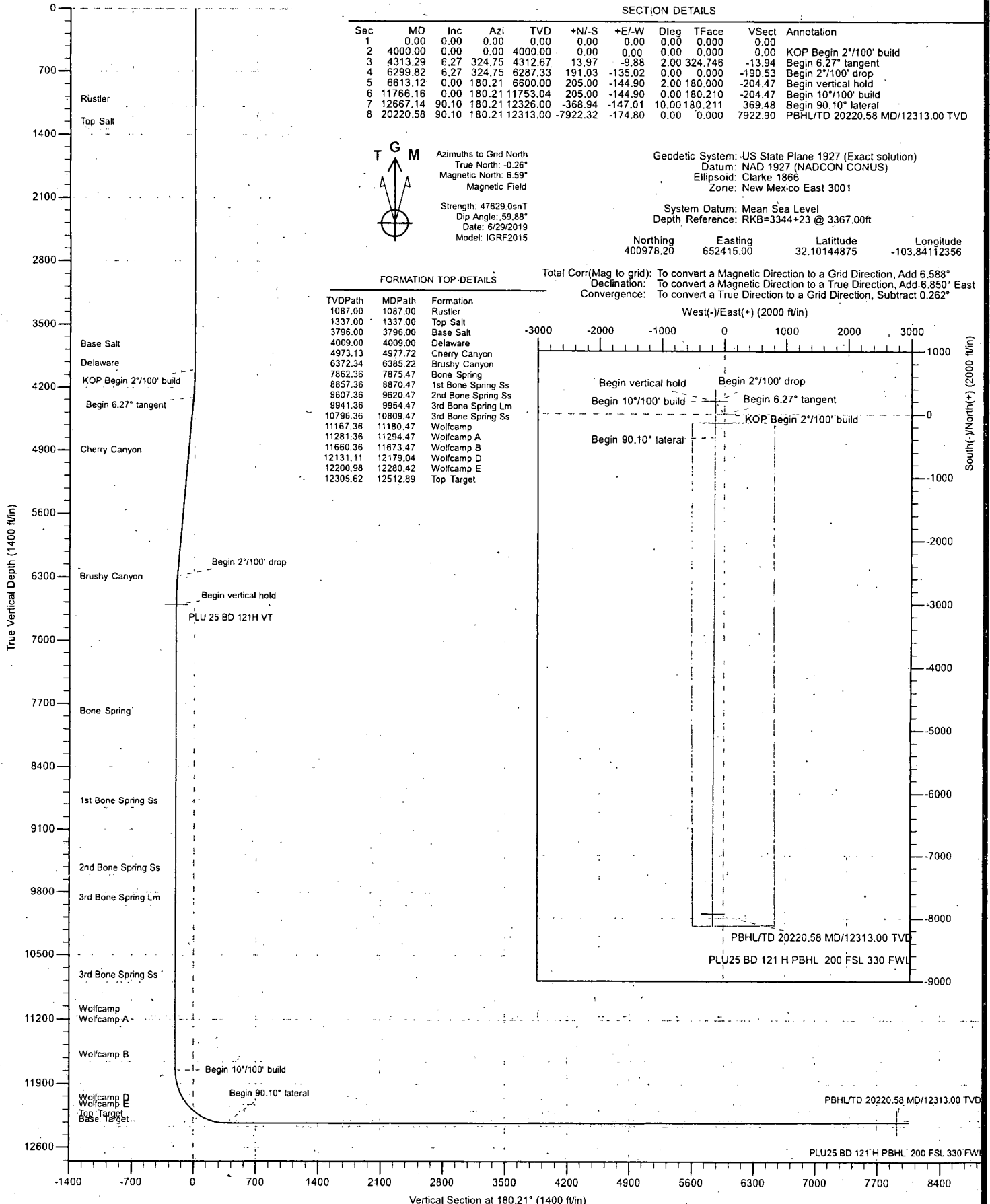
Quality:	QUALITY	Technical Supervisor:	PRODUCTION
Date:	6/8/2014	Date:	6/8/2014
Signature:		Signature:	





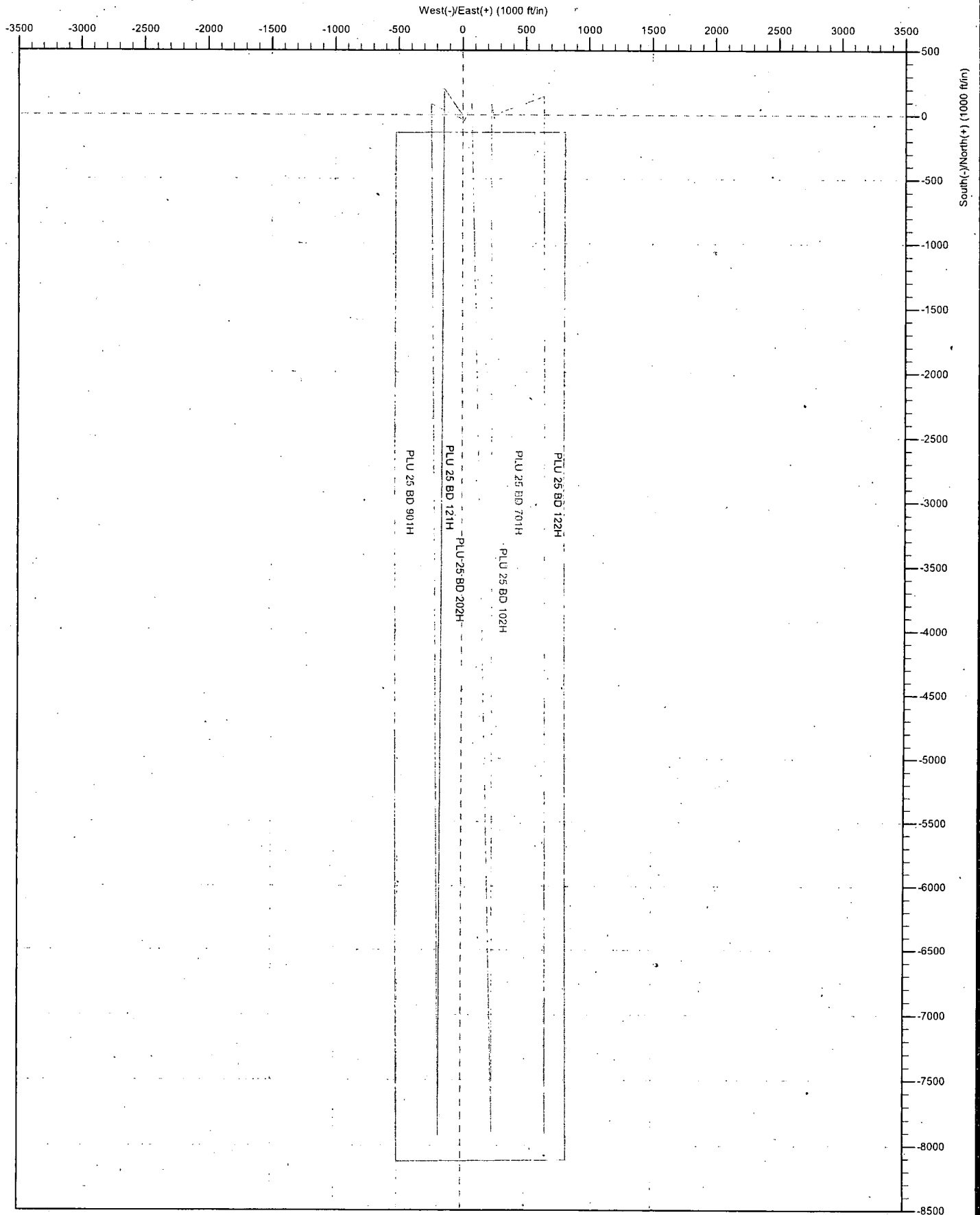


Well: PLU 25 BD 121H
Site: Poker Lake Unit 25 BD
Project: Eddy County, New Mexico NAD27 NME
Wellbore: Original Hole
Design: rev0





Well: PLU 25 BD 121H
Site: Poker Lake Unit 25 BD
Project: Eddy County, New Mexico NAD27 NME
Wellbore: Original Hole
Design: rev0





Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU 25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Project: Eddy County, New Mexico NAD27 NME			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Poker Lake Unit 25 BD				
Site Position:		Northing:	400,978.20	usft	Latitude:	32.10144875
From:	Map	Easting:	652,415.00	usft	Longitude:	-103.84112356
Position Uncertainty:	0.00 ft	Spot Radius:	13-3/16	"	Grid Convergence:	0.262 °

Well	PLU 25 BD 121H					
Well Position	+N-S	0.00 ft	Northing:	400,978.20 usft	Latitude:	32.10144875
	+E-W	0.00 ft	Easting:	652,415.00 usft	Longitude:	-103.84112356
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,344.00 ft	

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/29/2019	6.850	59.881	47,629.00874168

Design:	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	180.21

Survey Tool Program		Date: 6/29/2019		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	20,220.58	rev0 (Original Hole)	MWD	OWSG MWD - Standard



Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU-25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V-Sec (ft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,087.00	0.00	0.00	1,087.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
Rustler									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,337.00	0.00	0.00	1,337.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
Top Salt									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00



Standard_Report

Company: XTO Energy, Inc.
Project: Eddy County, New Mexico NAD27 NME
Site: Pöker, Lake Unit 25 BD
Well: PLU 25 BD 121H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well PLU 25 BD 121H
TVD Reference: RKB=3344+23 @ 3367.00ft
MD Reference: RKB=3344+23 @ 3367.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi. (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,796.00	0.00	0.00	3,796.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
Base Salt									
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	400,978.20	652,415.00
KOP Begin 2°/100' build									
4,009.00	0.18	324.75	4,009.00	0.01	-0.01	2.00	-0.01	400,978.21	652,414.99
Delaware									
4,100.00	2.00	324.75	4,099.98	1.43	-1.01	2.00	-1.42	400,979.63	652,413.99
4,200.00	4.00	324.75	4,199.84	5.70	-4.03	2.00	-5.68	400,983.90	652,410.97
4,300.00	6.00	324.75	4,299.45	12.82	-9.06	2.00	-12.78	400,991.02	652,405.94
4,313.29	6.27	324.75	4,312.67	13.97	-9.88	2.00	-13.94	400,992.17	652,405.12
Begin 6.27° tangent									



Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU 25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)	
4,400.00	6.27	324.75	4,398.86	21.70	-15.34	0.00	-21.65	400,999.90	652,399.66	
4,500.00	6.27	324.75	4,498.26	30.62	-21.64	0.00	-30.54	401,008.82	652,393.36	
4,600.00	6.27	324.75	4,597.66	39.53	-27.94	0.00	-39.43	401,017.73	652,387.06	
4,700.00	6.27	324.75	4,697.07	48.44	-34.24	0.00	-48.31	401,026.64	652,380.76	
4,800.00	6.27	324.75	4,796.47	57.35	-40.54	0.00	-57.20	401,035.55	652,374.46	
4,900.00	6.27	324.75	4,895.87	66.27	-46.84	0.00	-66.09	401,044.47	652,368.16	
4,977.72	6.27	324.75	4,973.13	73.19	-51.73	0.00	-73.00	401,051.39	652,363.27	
Cherry Canyon										
5,000.00	6.27	324.75	4,995.27	75.18	-53.14	0.00	-74.98	401,053.38	652,361.86	
5,100.00	6.27	324.75	5,094.68	84.09	-59.44	0.00	-83.87	401,062.29	652,355.56	
5,200.00	6.27	324.75	5,194.08	93.00	-65.74	0.00	-92.76	401,071.20	652,349.26	
5,300.00	6.27	324.75	5,293.48	101.92	-72.04	0.00	-101.65	401,080.12	652,342.96	
5,400.00	6.27	324.75	5,392.88	110.83	-78.34	0.00	-110.54	401,089.03	652,336.66	
5,500.00	6.27	324.75	5,492.29	119.74	-84.64	0.00	-119.43	401,097.94	652,330.36	
5,600.00	6.27	324.75	5,591.69	128.65	-90.94	0.00	-128.32	401,106.85	652,324.06	
5,700.00	6.27	324.75	5,691.09	137.57	-97.24	0.00	-137.21	401,115.77	652,317.76	
5,800.00	6.27	324.75	5,790.49	146.48	-103.54	0.00	-146.10	401,124.68	652,311.47	
5,900.00	6.27	324.75	5,889.90	155.39	-109.83	0.00	-154.99	401,133.59	652,305.17	
6,000.00	6.27	324.75	5,989.30	164.30	-116.13	0.00	-163.88	401,142.50	652,298.87	
6,100.00	6.27	324.75	6,088.70	173.22	-122.43	0.00	-172.77	401,151.42	652,292.57	
6,200.00	6.27	324.75	6,188.11	182.13	-128.73	0.00	-181.66	401,160.33	652,286.27	
6,299.82	6.27	324.75	6,287.33	191.03	-135.02	0.00	-190.53	401,169.22	652,279.98	
Begin 2°/100' drop										
6,300.00	6.27	324.75	6,287.51	191.04	-135.03	0.00	-190.54	401,169.24	652,279.97	
6,385.22	4.56	324.75	6,372.34	197.60	-139.67	2.00	-197.09	401,175.80	652,275.33	
Brushy Canyon										
6,400.00	4.26	324.75	6,387.08	198.53	-140.33	2.00	-198.01	401,176.73	652,274.67	



Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU-25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)	
6,500.00	2.26	324.75	6,486.91	203.18	-143.61	2.00	-202.65	401,181.38	652,271.39	
6,600.00	0.26	324.75	6,586.88	204.98	-144.88	2.00	-204.44	401,183.18	652,270.12	
6,613.12	0.00	180.21	6,600.00	205.00	-144.90	2.00	-204.47	401,183.20	652,270.10	
Begin vertical hold										
6,700.00	0.00	0.00	6,686.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
6,800.00	0.00	0.00	6,786.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
6,900.00	0.00	0.00	6,886.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,000.00	0.00	0.00	6,986.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,100.00	0.00	0.00	7,086.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,200.00	0.00	0.00	7,186.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,300.00	0.00	0.00	7,286.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,400.00	0.00	0.00	7,386.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,500.00	0.00	0.00	7,486.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,600.00	0.00	0.00	7,586.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,700.00	0.00	0.00	7,686.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,800.00	0.00	0.00	7,786.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
7,875.47	0.00	0.00	7,862.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
Bone Spring										
7,900.00	0.00	0.00	7,886.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,000.00	0.00	0.00	7,986.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,100.00	0.00	0.00	8,086.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,200.00	0.00	0.00	8,186.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,300.00	0.00	0.00	8,286.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,400.00	0.00	0.00	8,386.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,500.00	0.00	0.00	8,486.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,600.00	0.00	0.00	8,586.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	
8,700.00	0.00	0.00	8,686.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10	



Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25.BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake, Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU 25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)
8,800.00	0.00	0.00	8,786.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
8,870.47	0.00	0.00	8,857.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
1st Bone Spring Ss									
8,900.00	0.00	0.00	8,886.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,000.00	0.00	0.00	8,986.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,100.00	0.00	0.00	9,086.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,200.00	0.00	0.00	9,186.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,300.00	0.00	0.00	9,286.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,400.00	0.00	0.00	9,386.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,500.00	0.00	0.00	9,486.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,600.00	0.00	0.00	9,586.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,620.47	0.00	0.00	9,607.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
2nd Bone Spring Ss									
9,700.00	0.00	0.00	9,686.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,800.00	0.00	0.00	9,786.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,900.00	0.00	0.00	9,886.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
9,954.47	0.00	0.00	9,941.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
3rd Bone Spring Lm									
10,000.00	0.00	0.00	9,986.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,100.00	0.00	0.00	10,086.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,200.00	0.00	0.00	10,186.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,300.00	0.00	0.00	10,286.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,400.00	0.00	0.00	10,386.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,500.00	0.00	0.00	10,486.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,600.00	0.00	0.00	10,586.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,700.00	0.00	0.00	10,686.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
10,800.00	0.00	0.00	10,786.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10



Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23' @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23' @ 3367.00ft
Well:	PLU 25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)
10,809.47	0.00	0.00	10,796.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
3rd Bone Spring Ss									
10,900.00	0.00	0.00	10,886.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,000.00	0.00	0.00	10,986.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,100.00	0.00	0.00	11,086.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,180.47	0.00	0.00	11,167.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
Wolfcamp									
11,200.00	0.00	0.00	11,186.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,294.47	0.00	0.00	11,281.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
Wolfcamp A									
11,300.00	0.00	0.00	11,286.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,400.00	0.00	0.00	11,386.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,500.00	0.00	0.00	11,486.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,600.00	0.00	0.00	11,586.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,673.47	0.00	0.00	11,660.36	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
Wolfcamp B									
11,700.00	0.00	0.00	11,686.88	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
11,766.16	0.00	0.00	11,753.04	205.00	-144.90	0.00	-204.47	401,183.20	652,270.10
Begin 10°/100' build									
11,800.00	3.38	180.21	11,786.87	204.00	-144.90	10.00	-203.47	401,182.20	652,270.10
11,900.00	13.38	180.21	11,885.67	189.44	-144.96	10.00	-188.91	401,167.64	652,270.04
12,000.00	23.38	180.21	11,980.45	157.94	-145.07	10.00	-157.41	401,136.14	652,269.93
12,100.00	33.38	180.21	12,068.31	110.46	-145.25	10.00	-109.93	401,088.66	652,269.75
12,179.04	41.29	180.21	12,131.11	62.56	-145.42	10.00	-62.03	401,040.76	652,269.58
Wolfcamp D									
12,200.00	43.38	180.21	12,146.60	48.45	-145.48	10.00	-47.91	401,026.65	652,269.52
12,280.42	51.43	180.21	12,200.98	-10.70	-145.69	10.00	11.24	400,967.50	652,269.31
Wolfcamp E									



Standard_Report

Company: XTO Energy Inc.
Project: Eddy County, New Mexico NAD27 NME
Site: Poker Lake Unit 25 BD
Well: PLU 25 BD 121H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well PLU 25 BD 121H
TVD Reference: RKB=3344+23 @ 3367.00ft
MD Reference: RKB=3344+23 @ 3367.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V Sec (ft)	Northing (usft)	Easting (usft)
12,300.00	53.38	180.21	12,212.93	-26.22	-145.75	10.00	26.75	400,951.98	652,269.25
12,400.00	63.38	180.21	12,265.28	-111.27	-146.06	10.00	111.80	400,866.93	652,268.94
12,500.00	73.38	180.21	12,302.07	-204.12	-146.41	10.00	204.65	400,774.08	652,268.60
12,512.89	74.67	180.21	12,305.62	-216.51	-146.45	10.00	217.05	400,761.69	652,268.55
Top Target									
12,600.00	83.38	180.21	12,322.18	-301.95	-146.77	10.00	302.48	400,676.25	652,268.24
12,667.14	90.10	180.21	12,326.00	-368.94	-147.01	10.00	369.48	400,609.26	652,267.99
Begin 90.10° lateral									
12,700.00	90.10	180.21	12,325.94	-401.80	-147.13	0.00	402.33	400,576.40	652,267.87
12,800.00	90.10	180.21	12,325.77	-501.80	-147.50	0.00	502.33	400,476.40	652,267.50
12,900.00	90.10	180.21	12,325.60	-601.80	-147.87	0.00	602.33	400,376.40	652,267.13
13,000.00	90.10	180.21	12,325.42	-701.80	-148.24	0.00	702.33	400,276.41	652,266.76
13,100.00	90.10	180.21	12,325.25	-801.80	-148.60	0.00	802.33	400,176.41	652,266.40
13,200.00	90.10	180.21	12,325.08	-901.79	-148.97	0.00	902.33	400,076.41	652,266.03
13,300.00	90.10	180.21	12,324.91	-1,001.79	-149.34	0.00	1,002.33	399,976.41	652,265.66
13,400.00	90.10	180.21	12,324.74	-1,101.79	-149.71	0.00	1,102.33	399,876.41	652,265.29
13,500.00	90.10	180.21	12,324.56	-1,201.79	-150.08	0.00	1,202.33	399,776.41	652,264.92
13,600.00	90.10	180.21	12,324.39	-1,301.79	-150.44	0.00	1,302.33	399,676.41	652,264.56
13,700.00	90.10	180.21	12,324.22	-1,401.79	-150.81	0.00	1,402.33	399,576.41	652,264.19
13,800.00	90.10	180.21	12,324.05	-1,501.79	-151.18	0.00	1,502.33	399,476.41	652,263.82
13,900.00	90.10	180.21	12,323.88	-1,601.79	-151.55	0.00	1,602.33	399,376.41	652,263.45
14,000.00	90.10	180.21	12,323.70	-1,701.79	-151.92	0.00	1,702.33	399,276.42	652,263.09
14,100.00	90.10	180.21	12,323.53	-1,801.79	-152.28	0.00	1,802.33	399,176.42	652,262.72
14,200.00	90.10	180.21	12,323.36	-1,901.79	-152.65	0.00	1,902.33	399,076.42	652,262.35
14,300.00	90.10	180.21	12,323.19	-2,001.79	-153.02	0.00	2,002.33	398,976.42	652,261.98
14,400.00	90.10	180.21	12,323.02	-2,101.78	-153.39	0.00	2,102.33	398,876.42	652,261.61
14,500.00	90.10	180.21	12,322.84	-2,201.78	-153.75	0.00	2,202.33	398,776.42	652,261.25



Standard_Report

Company:	XTO Energy Inc.	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU 25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)
14,600.00	90.10	180.21	12,322.67	-2,301.78	-154.12	0.00	2,302.33	398,676.42	652,260.88
14,700.00	90.10	180.21	12,322.50	-2,401.78	-154.49	0.00	2,402.33	398,576.42	652,260.51
14,800.00	90.10	180.21	12,322.33	-2,501.78	-154.86	0.00	2,502.33	398,476.42	652,260.14
14,900.00	90.10	180.21	12,322.15	-2,601.78	-155.23	0.00	2,602.33	398,376.42	652,259.77
15,000.00	90.10	180.21	12,321.98	-2,701.78	-155.59	0.00	2,702.33	398,276.43	652,259.41
15,100.00	90.10	180.21	12,321.81	-2,801.78	-155.96	0.00	2,802.33	398,176.43	652,259.04
15,200.00	90.10	180.21	12,321.64	-2,901.78	-156.33	0.00	2,902.33	398,076.43	652,258.67
15,300.00	90.10	180.21	12,321.47	-3,001.78	-156.70	0.00	3,002.33	397,976.43	652,258.30
15,400.00	90.10	180.21	12,321.29	-3,101.78	-157.07	0.00	3,102.33	397,876.43	652,257.93
15,500.00	90.10	180.21	12,321.12	-3,201.78	-157.43	0.00	3,202.33	397,776.43	652,257.57
15,600.00	90.10	180.21	12,320.95	-3,301.77	-157.80	0.00	3,302.33	397,676.43	652,257.20
15,700.00	90.10	180.21	12,320.78	-3,401.77	-158.17	0.00	3,402.33	397,576.43	652,256.83
15,800.00	90.10	180.21	12,320.61	-3,501.77	-158.54	0.00	3,502.33	397,476.43	652,256.46
15,900.00	90.10	180.21	12,320.43	-3,601.77	-158.91	0.00	3,602.33	397,376.44	652,256.10
16,000.00	90.10	180.21	12,320.26	-3,701.77	-159.27	0.00	3,702.33	397,276.44	652,255.73
16,100.00	90.10	180.21	12,320.09	-3,801.77	-159.64	0.00	3,802.33	397,176.44	652,255.36
16,200.00	90.10	180.21	12,319.92	-3,901.77	-160.01	0.00	3,902.33	397,076.44	652,254.99
16,300.00	90.10	180.21	12,319.75	-4,001.77	-160.38	0.00	4,002.33	396,976.44	652,254.62
16,400.00	90.10	180.21	12,319.57	-4,101.77	-160.74	0.00	4,102.33	396,876.44	652,254.26
16,500.00	90.10	180.21	12,319.40	-4,201.77	-161.11	0.00	4,202.33	396,776.44	652,253.89
16,600.00	90.10	180.21	12,319.23	-4,301.77	-161.48	0.00	4,302.33	396,676.44	652,253.52
16,700.00	90.10	180.21	12,319.06	-4,401.77	-161.85	0.00	4,402.33	396,576.44	652,253.15
16,800.00	90.10	180.21	12,318.89	-4,501.76	-162.22	0.00	4,502.33	396,476.44	652,252.78
16,900.00	90.10	180.21	12,318.71	-4,601.76	-162.58	0.00	4,602.33	396,376.45	652,252.42
17,000.00	90.10	180.21	12,318.54	-4,701.76	-162.95	0.00	4,702.33	396,276.45	652,252.05
17,100.00	90.10	180.21	12,318.37	-4,801.76	-163.32	0.00	4,802.33	396,176.45	652,251.68
17,200.00	90.10	180.21	12,318.20	-4,901.76	-163.69	0.00	4,902.33	396,076.45	652,251.31



Standard_Report

Company: XTO-Energy Inc
Project: Eddy County, New Mexico NAD27 NME
Site: Roker Lake Unit 25 BD
Well: PLU 25 BD 121H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well PLU 25 BD 121H
TVD Reference: RKB=3344+23 @ 3367.00ft
MD Reference: RKB=3344+23 @ 3367.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)
17,300.00	90.10	180.21	12,318.03	-5,001.76	-164.06	0.00	5,002.33	395,976.45	652,250.94
17,400.00	90.10	180.21	12,317.85	-5,101.76	-164.42	0.00	5,102.33	395,876.45	652,250.58
17,500.00	90.10	180.21	12,317.68	-5,201.76	-164.79	0.00	5,202.33	395,776.45	652,250.21
17,600.00	90.10	180.21	12,317.51	-5,301.76	-165.16	0.00	5,302.33	395,676.45	652,249.84
17,700.00	90.10	180.21	12,317.34	-5,401.76	-165.53	0.00	5,402.33	395,576.45	652,249.47
17,800.00	90.10	180.21	12,317.17	-5,501.76	-165.90	0.00	5,502.33	395,476.45	652,249.11
17,900.00	90.10	180.21	12,316.99	-5,601.76	-166.26	0.00	5,602.33	395,376.46	652,248.74
18,000.00	90.10	180.21	12,316.82	-5,701.75	-166.63	0.00	5,702.33	395,276.46	652,248.37
18,100.00	90.10	180.21	12,316.65	-5,801.75	-167.00	0.00	5,802.33	395,176.46	652,248.00
18,200.00	90.10	180.21	12,316.48	-5,901.75	-167.37	0.00	5,902.33	395,076.46	652,247.63
18,300.00	90.10	180.21	12,316.30	-6,001.75	-167.73	0.00	6,002.33	394,976.46	652,247.27
18,400.00	90.10	180.21	12,316.13	-6,101.75	-168.10	0.00	6,102.33	394,876.46	652,246.90
18,500.00	90.10	180.21	12,315.96	-6,201.75	-168.47	0.00	6,202.33	394,776.46	652,246.53
18,600.00	90.10	180.21	12,315.79	-6,301.75	-168.84	0.00	6,302.33	394,676.46	652,246.16
18,700.00	90.10	180.21	12,315.62	-6,401.75	-169.21	0.00	6,402.33	394,576.46	652,245.79
18,800.00	90.10	180.21	12,315.44	-6,501.75	-169.57	0.00	6,502.33	394,476.46	652,245.43
18,900.00	90.10	180.21	12,315.27	-6,601.75	-169.94	0.00	6,602.33	394,376.47	652,245.06
19,000.00	90.10	180.21	12,315.10	-6,701.75	-170.31	0.00	6,702.33	394,276.47	652,244.69
19,100.00	90.10	180.21	12,314.93	-6,801.75	-170.68	0.00	6,802.33	394,176.47	652,244.32
19,200.00	90.10	180.21	12,314.76	-6,901.74	-171.05	0.00	6,902.33	394,076.47	652,243.95
19,300.00	90.10	180.21	12,314.58	-7,001.74	-171.41	0.00	7,002.33	393,976.47	652,243.59
19,400.00	90.10	180.21	12,314.41	-7,101.74	-171.78	0.00	7,102.33	393,876.47	652,243.22
19,500.00	90.10	180.21	12,314.24	-7,201.74	-172.15	0.00	7,202.32	393,776.47	652,242.85
19,600.00	90.10	180.21	12,314.07	-7,301.74	-172.52	0.00	7,302.32	393,676.47	652,242.48
19,700.00	90.10	180.21	12,313.90	-7,401.74	-172.89	0.00	7,402.32	393,576.47	652,242.12
19,800.00	90.10	180.21	12,313.72	-7,501.74	-173.25	0.00	7,502.32	393,476.48	652,241.75
19,900.00	90.10	180.21	12,313.55	-7,601.74	-173.62	0.00	7,602.32	393,376.48	652,241.38



Standard_Report

Company:	XTO Energy Inc	Local Co-ordinate Reference:	Well PLU 25 BD 121H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3344+23 @ 3367.00ft
Site:	Poker Lake Unit 25 BD	MD Reference:	RKB=3344+23 @ 3367.00ft
Well:	PLU 25 BD 121H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	DB_Jul2216dt_v14

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	D Leg (°/100ft)	V. Sec (ft)	Northing (usft)	Easting (usft)
20,000.00	90.10	180.21	12,313.38	-7,701.74	-173.99	0.00	7,702.32	393,276.48	652,241.01
20,100.00	90.10	180.21	12,313.21	-7,801.74	-174.36	0.00	7,802.32	393,176.48	652,240.64
20,200.00	90.10	180.21	12,313.04	-7,901.74	-174.72	0.00	7,902.32	393,076.48	652,240.28
20,220.58	90.10	180.21	12,313.00	-7,922.32	-174.80	0.00	7,922.90	393,055.90	652,240.20
PBHL/TD 20220.58 MD/12313.00 TVD									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,087.00	1,087.00	Rustler		-0.100	180.21
1,337.00	1,337.00	Top Salt		-0.100	180.21
3,796.00	3,796.00	Base Salt		-0.100	180.21
4,009.00	4,009.00	Delaware		-0.100	180.21
4,977.72	4,973.00	Cherry Canyon		-0.100	180.21
6,385.22	6,372.00	Brushy Canyon		-0.100	180.21
7,875.47	7,862.00	Bone Spring		-0.100	180.21
8,870.47	8,857.00	1st Bone Spring Ss		-0.100	180.21
9,620.47	9,607.00	2nd Bone Spring Ss		-0.100	180.21
9,954.47	9,941.00	3rd Bone Spring Lm		-0.100	180.21
10,809.47	10,796.00	3rd Bone Spring Ss		-0.100	180.21
11,180.47	11,167.00	Wolfcamp		-0.100	180.21
11,294.47	11,281.00	Wolfcamp A		-0.100	180.21
11,673.47	11,660.00	Wolfcamp B		-0.100	180.21
12,179.04	12,131.00	Wolfcamp D		-0.100	180.21
12,280.42	12,201.00	Wolfcamp E		-0.100	180.21
12,512.89	12,306.00	Top Target		-0.100	180.21



Standard_Report

Company: XTO Energy Inc.
Project: Eddy County, New Mexico NAD27 NME
Site: Poker Lake Unit-25 BD
Well: PLU-25-BD-121H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well-PLU-25 BD-121H
TVD Reference: RKB=3344+23 @ 3367.00ft
MD Reference: RKB=3344+23 @ 3367.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB: Jul2216dt v14

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,000.00	4,000.00	0.00	0.00	KOP Begin 2°/100' build
4,313.29	4,312.67	13.97	-9.88	Begin 6.27° tangent
6,299.82	6,287.33	191.03	-135.02	Begin 2°/100' drop
6,613.12	6,600.00	205.00	-144.90	Begin vertical hold
11,766.16	11,753.04	205.00	-144.90	Begin 10°/100' build
12,667.14	12,326.00	-368.94	-147.01	Begin 90.10° lateral
20,220.58	12,313.00	-7,922.32	-174.80	PBHL/TD 20220.58 MD/12313.00 TVD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-0063079A
WELL NAME & NO.:	Poker Lake Unit 25 BD 121H
SURFACE HOLE FOOTAGE:	2525' FNL & 0522' FWL
BOTTOM HOLE FOOTAGE:	0200' FSL & 0330' FWL Sec. 12, T. 26 S., R 30 E.
LOCATION:	Section 25, T. 25 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

The original COAs still stand with the following drilling modifications:

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.**
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. 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 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 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 1200 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**

- 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.

Formation below the 13-3/8" 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.

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 is:

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

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.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. 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.

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

- ☒ Cement as proposed. Operator shall provide method of verification.

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. 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" 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 071719