

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM Carlsbad Field Office

NMOC
ArtesiaFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*5. Lease Serial No.
NMLC063079A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM71016X8. Well Name and No.
POKER LAKE UNIT 25 BD 703H9. API Well No.
30-015-4586010. Field and Pool or Exploratory Area
WILDCAT BONE SPRING11. 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 RD BLDG 5
MIDLAND, TX 797073b. 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 Mer NMP SENW 1685FNL 2085FWL

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 recomplete 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 recompletion 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:

1. Change BHL from 2440'FNL & 1670'FWL, Sec. 12-T26S-R30E to 200'FSL & 2430'FWL, Sec. 36-T25S-R30E.
2. Change formation from WC Bone Spring (Oil) to Purple Sage; Wolfcamp (Gas)
3. Change from a 3-string casing design to a 4-string casing design.

In addition, XTO requests a variance to be able to batch drill these wells if necessary. If so, XTO will set 7" 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

RECEIVED

JUL 23 2019

SEE ATTACHED FOR
DISTRICT 7 - ARTESIA O.C.
CONDITIONS OF APPROVAL

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

Electronic Submission #471221 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 07/01/2019 ()

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 06/28/2019 APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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.

BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 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)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RW 10-25-19

Additional data for EC transaction #471221 that would not fit on the form

32. Additional remarks, continued

and intermediate strings for the remaining wells on the pad. Once surface and intermediates are all completed, XTO will begin drilling the production hole on each of the wells.

Poker Lake Unit 703H - 30-015-45860

Poker Lake Unit 104H - 30-015-45847

Poker Lake Unit 124H - 30-015-45855

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45860	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 25 BD	⁶ Well Number 703H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,346'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	25 S	30 E		1,685	NORTH	2,085	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	25 S	30 E		200	SOUTH	2,430	WEST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 401,826.3 X= 653,980.5 LAT.= 32.103760°N LONG.= 103.836056°W FIRST TAKE POINT NAD 27 NME Y= 400,502.5 X= 654,322.1 LAT.= 32.100117°N LONG.= 103.834972°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 400,845.0 N, X= 653,224.3 E B - Y= 400,851.7 N, X= 654,555.8 E C - Y= 398,185.5 N, X= 653,217.9 E D - Y= 398,193.9 N, X= 654,548.9 E E - Y= 395,525.4 N, X= 653,229.4 E F - Y= 395,536.1 N, X= 654,559.9 E G - Y= 392,863.6 N, X= 653,241.1 E H - Y= 392,873.8 N, X= 654,571.0 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 400,902.9 N, X= 694,409.7 E B - Y= 400,909.6 N, X= 695,741.2 E C - Y= 398,243.4 N, X= 694,403.4 E D - Y= 398,251.8 N, X= 695,734.4 E E - Y= 395,583.2 N, X= 694,415.0 E F - Y= 395,593.9 N, X= 695,745.5 E G - Y= 392,921.4 N, X= 694,426.7 E H - Y= 392,931.6 N, X= 695,756.7 E LAST TAKE POINT NAD 27 NME Y= 393,202.0 X= 654,339.5 LAT.= 32.080048°N LONG.= 103.835025°W BOTTOM HOLE LOCATION NAD 27 NME Y= 393,072.0 X= 654,340.1 LAT.= 32.079691°N LONG.= 103.835025°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 401,884.3 X= 695,165.8 LAT.= 32.103885°N LONG.= 103.836536°W FIRST TAKE POINT NAD 83 NME Y= 400,560.4 X= 695,507.5 LAT.= 32.100241°N LONG.= 103.835452°W BOTTOM HOLE LOCATION NAD 83 NME Y= 393,129.8 X= 695,525.8 LAT.= 32.079815°N LONG.= 103.835504°W	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or, leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Kelly Kardos 6/28/19 Signature Date Kelly Kardos Printed Name kelly_kardos@xtoenergy.com E-mail Address
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 4-2-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JC 2018010048		

R/R 10-25-19

Intent ☒ As Drilled ☐

API #

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 25 BD	Well Number 703H
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Kick Off Point (KOP)

UL F	Section 25	Township 25S	Range 30E	Lot	Feet 1685	From N/S North	Feet 2085	From E/W West	County Eddy
Latitude 32.103885					Longitude -103.836536			NAD NAD83	

First Take Point (FTP)

UL K	Section 25	Township 25S	Range 30E	Lot	Feet 2310	From N/S South	Feet 2430	From E/W West	County Eddy
Latitude 32.100241					Longitude -103.835452			NAD NAD83	

Last Take Point (LTP)

UL N	Section 36	Township 25S	Range 30E	Lot	Feet 330	From N/S South	Feet 2430	From E/W West	County Eddy
Latitude 32.080173					Longitude -103.835504			NAD NAD83	

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

Is this well an infill well? ☐ Y

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

API #

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 25 BD	Well Number 202H
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KZ 06/29/2018

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

XTO Energy Inc.
PLU 25 Brushy Draw 703H
Projected TD: 19104' MD / 11300' TVD
SHL: 1685' FNL & 2085' FWL , Section 25, T25S, R30E
BHL: 200' FSL & 2430' FWL , Section 36, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1034'	Water
Top of Salt	1222'	Water
Base of Salt	3812'	Water
Delaware	4024'	Water
Bone Spring	7891'	Water/Oil/Gas
1st Bone Spring Ss	8891'	Water/Oil/Gas
2nd Bone Spring Ss	9634'	Water/Oil/Gas
3rd Bone Spring Ss	10834'	Water/Oil/Gas
Wolfcamp	11186'	Water/Oil/Gas
Wolfcamp Y	11297'	Water/Oil/Gas
Target/Land Curve	11300'	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 @ 1150' (72' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 3870' and circulating cement to surface. An 8-3/4 inch vertical and curve hole will be drilled and 7 inch casing run and cemented 500' into the 9-5/8 inch casing. A 6 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 300' into the 7 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1150'	13-3/8"	54.5	BTC	J-55	New	2.27	2.15	15.45
12-1/4"	0' - 3870'	9-5/8"	40	BTC	J-55	New	1.32	2.11	4.52
8-3/4"	0' - 11674'	7"	32	BTC	P-110	New	1.31	1.96	2.65
6"	11374' - 19104'	4-1/2"	13.5	BTC	P-110	New	1.31	2.66	2.19

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

WELLHEAD:

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

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, BTC casing to be set at +/- 1150'

Lead: 630 sxs EconoCem-HL TRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 300 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

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

Intermediate Casing: 9-5/8", 40 New J-55, BTC casing to be set at +/- 3870'

Lead: 1120 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

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

2nd Intermediate Casing: 7", 32 New P-110, BTC casing to be set at +/- 11674'

Lead: 1070 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

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

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

Production Casing: 4-1/2", 13.5 New P-110, BTC casing to be set at +/- 19104'

Tail: 650 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft³/sx, 8.38 gal/sx water)

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

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3978 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 9-5/8" and 7" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 1150'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
1150' to 3870'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3870' to 11674'	8-3/4"	FW / Cut Brine	8.6-9.5	29-32	NC - 20
11674' to 19104'	6"	FW / Cut Brine / Polymer	10.7-11	32-50	20'

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13-3/8" casing.

8. Logging, Coring and Testing Program

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

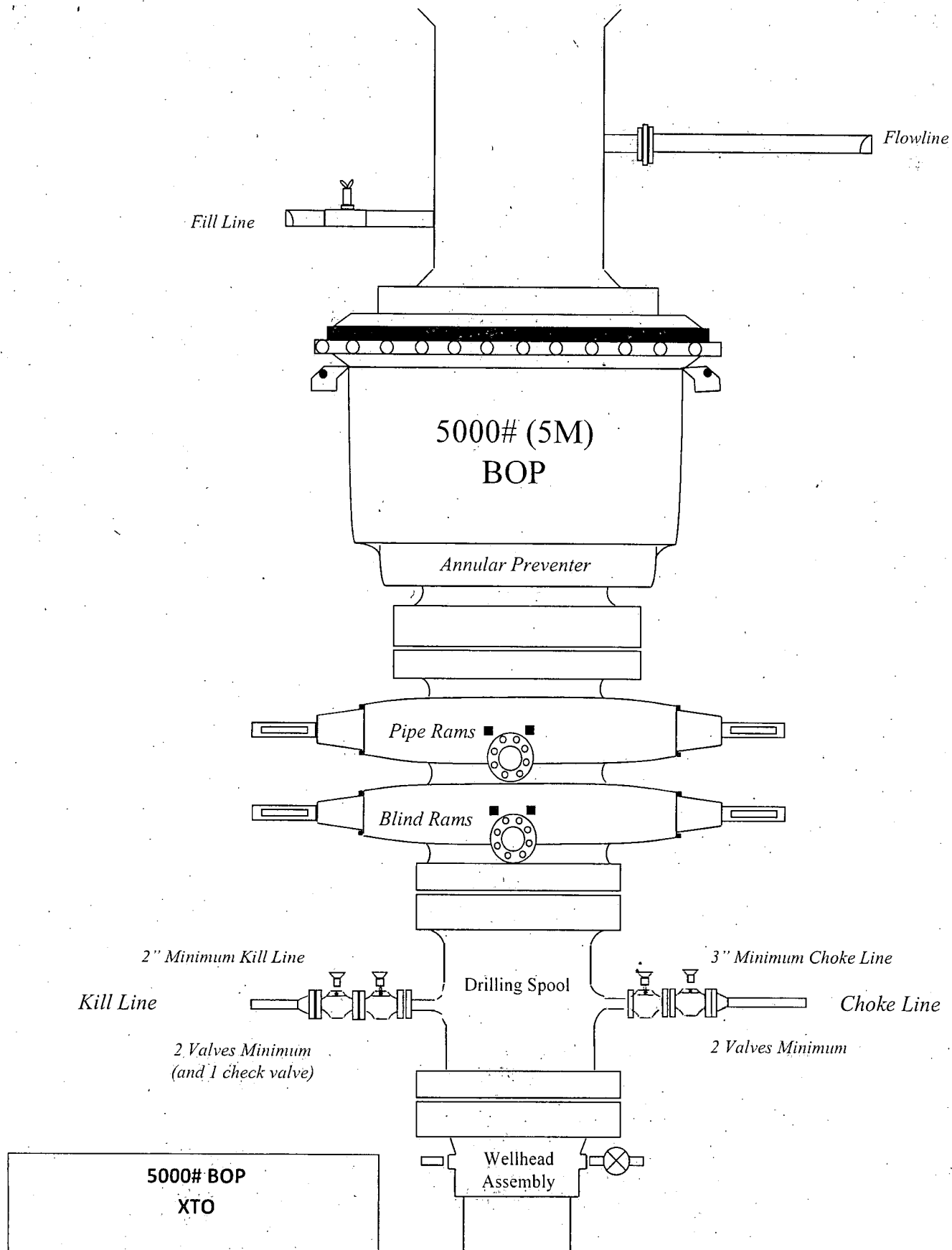
Open hole logging will not be done on this well.

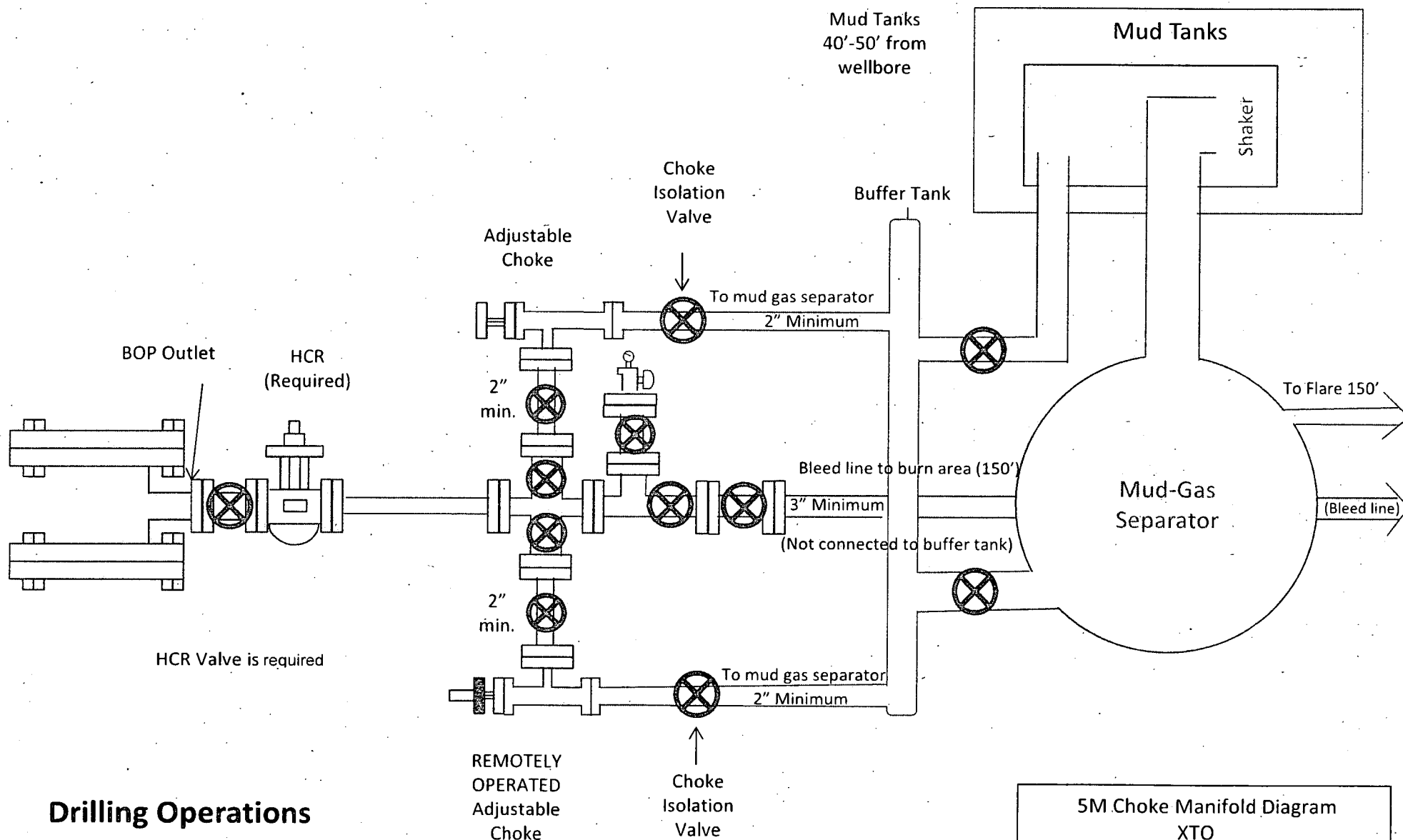
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 150 to 170 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6464 psi.

10. Anticipated Starting Date and Duration of Operations

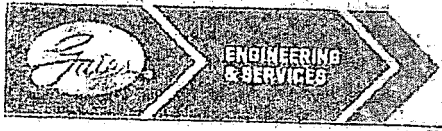
Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.





**Drilling Operations
Choke Manifold
5M Service**

5M Choke Manifold Diagram
XTO



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

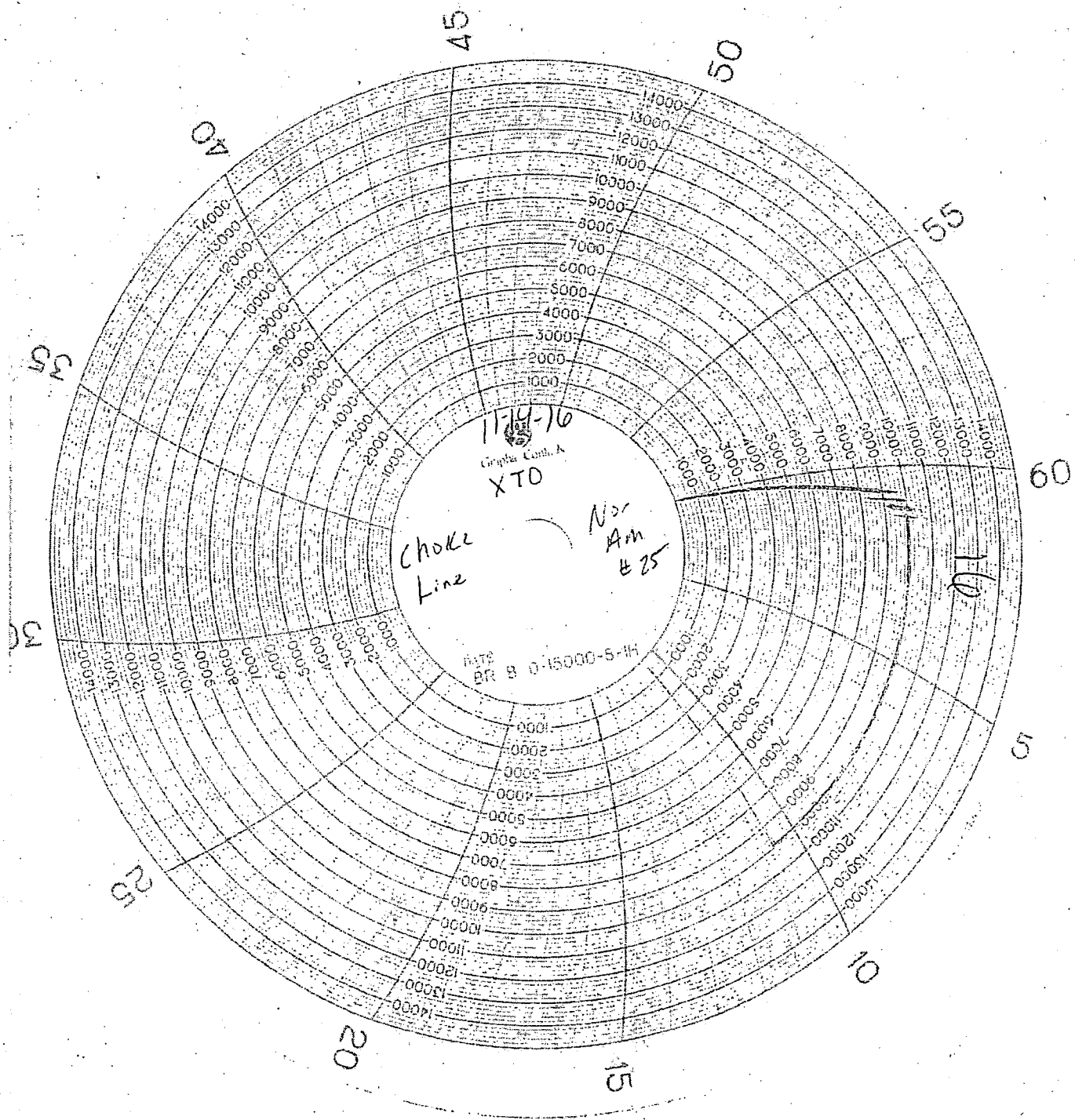
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

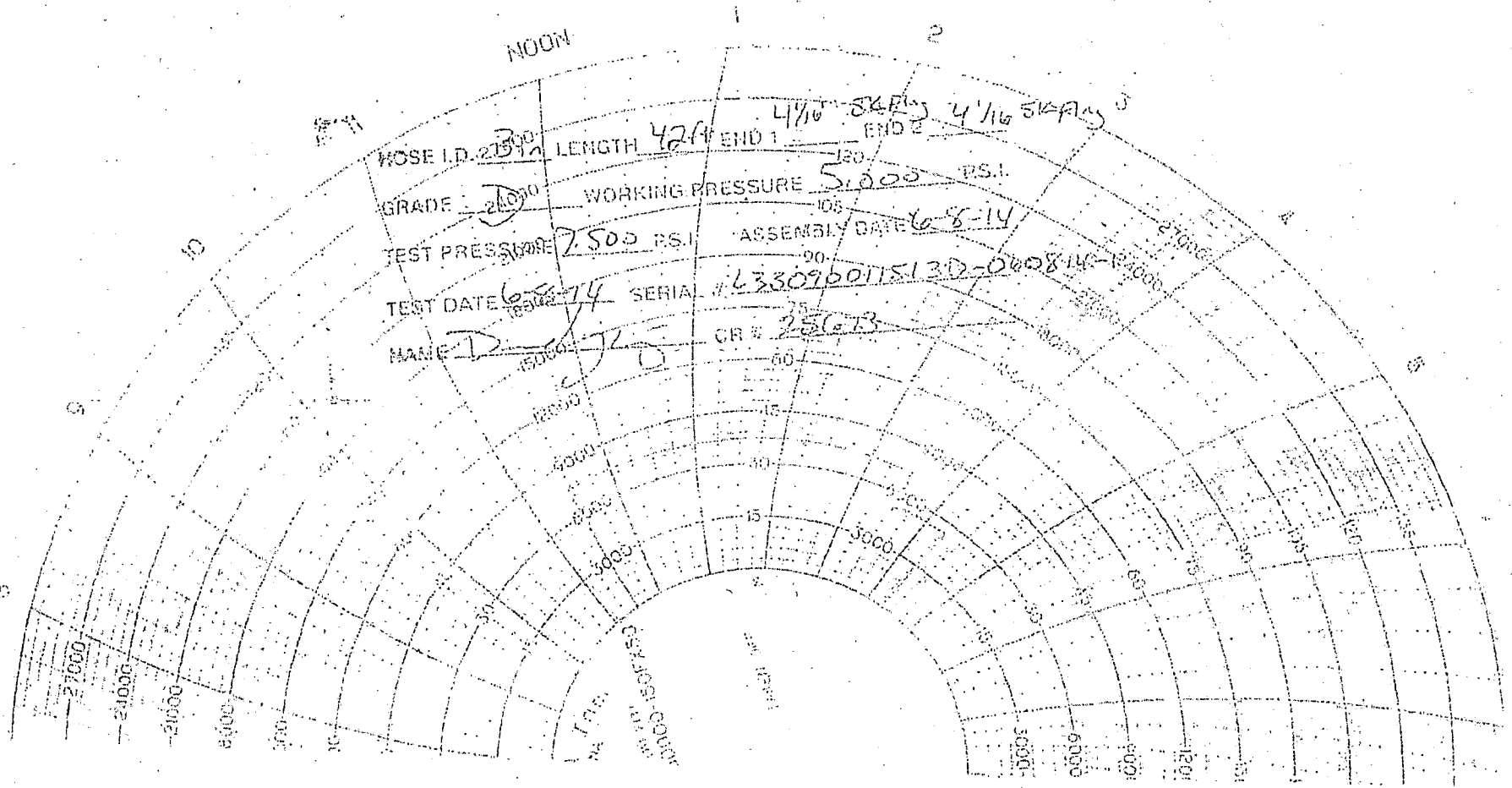
GRADE D PRESSURE TEST CERTIFICATE

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+2.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011S13D-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 :	





HOSE I.D. 3/4 LENGTH 42 ft END 1 4 1/16 SKF END 2 4 1/16 SKF
GRADE D WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14 SERIAL # L330960115130-0008 IN R4000
NAME D. J. S. CR # 25013



XTO Energy

Eddy County, NM (Nad-27 / East Zone)

Poker Lake Unit 25 BD

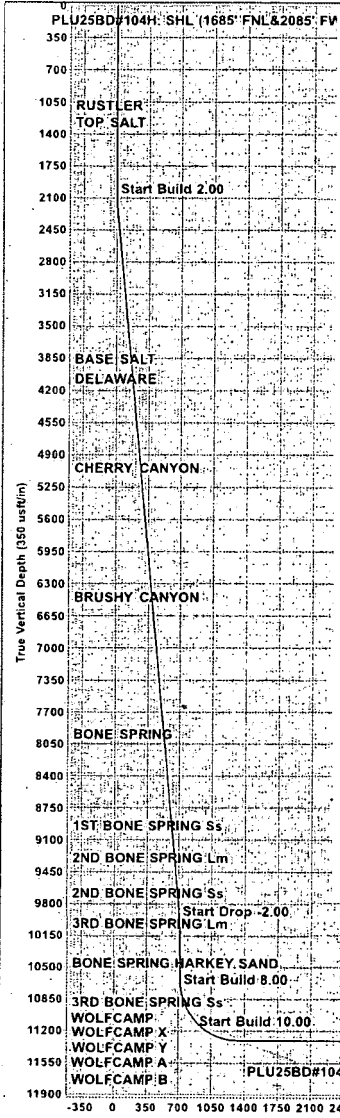
703H

Wellbore #1

Plan: PERMIT

Standard Planning Report

27 June, 2019



Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Poker Lake Unit 25 BD
Well: #703H
Wellbore: Wellbore #1
Rig:
Design: PERMIT / 14:44, June 27 2019



TOTAL CORRECTION
To convert a Magnetic Direction to a Grid Direction, Add 6.584°

WELL DETAILS: #104H

RKB=26' @ 3372.00 usft
3348.00
+N-S +E-W Northing Easting
0.00 0.00 401826.30 651980.50
Latitude Longitude
32.103760 -103.836055

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
3	2287.57	5.75	154.63	2287.09	-13.03	6.18	2.00	13.05
4	9921.80	5.75	154.63	9882.88	-704.30	333.95	0.00	705.12
5	10209.37	0.00	179.86	10169.97	-717.33	340.13	2.00	718.16
6	10674.37	0.00	179.86	10634.97	-717.33	340.13	0.00	719.16
7	11174.37	40.00	179.86	11095.33	-884.89	340.54	8.00	885.72
8	11674.36	90.00	179.86	11306.00	-1323.80	341.80	10.00	1324.63
9	18974.49	90.00	179.86	11300.00	-8624.30	359.29	0.00	8625.15
10	19104.89	90.00	179.86	11300.00	-8754.30	359.60	0.00	8755.15

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PLU25BD#104H: SHL (1685' FNL&2085' FWL)	0.00	0.00	0.00	401826.30	651980.50	32.103760	-103.836055
PLU25BD#104H: FTP/LP	11300.00	-1323.80	341.60	400502.50	654332.10	32.108117	-103.834972
PLU25BD#104H: LTP	11300.00	-8624.30	359.00	393202.00	654339.50	32.080048	-103.835025
PLU25BD#104H: PBHL (200' FSL&2430' FWL)	11300.00	-8754.30	359.60	393072.00	654340.10	32.079691	-103.835025

FORMATION TOP DETAILS

Formation	TVD (ft)
RUSTLER	1034.00
TOP SALT	1222.00
BASE SALT	3812.00
DELAWARE	4024.00
CHERRY CANYON	4993.00
BRUSHY CANYON	6392.00
BONE SPRING	7891.00
1ST BONE SPRING Ss	8891.00
2ND BONE SPRING Lm	9244.00
2ND BONE SPRING Ss	9634.00
3RD BONE SPRING Lm	9968.00
BONE SPRING HARKEY SAND	10405.00
3RD BONE SPRING Ss	10834.00
WOLFCAMP	11186.00
WOLFCAMP X	11218.00
WOLFCAMP Y	11297.00
LP	11300.00
WOLFCAMP A	11300.00



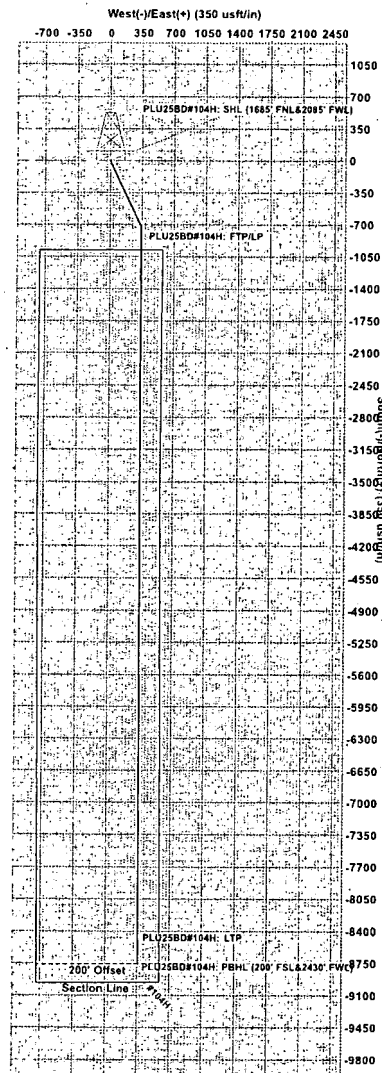
Aligns to Grid North
True North: -0.20°
Magnetic North: 6.58°
Magnetic Field
Strength: 47.631 Gauss
Dip Angle: 59.88°
Date: 6/27/2019
Model: IGRF2015

PROJECT DETAILS: Eddy County, NM (Nad-27 / East Zone)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (MADCON CONUS)
Eipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Disclaimer:

All Plan Details, Standards, Notes, and all other well information, survey data is provided by customer and subject to customer's approval.



Plan: PERMIT (#104H/Wellbore #1)

Created By: Derek Stephens Date: 14:44, June 27 2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 25 BD	⁶ Well Number 703H
⁷ OGRID No. 260737	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,346'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	25 S	30 E		1,685	NORTH	2,085	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	25 S	30 E		200	SOUTH	2,430	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y = 401,826.3 X = 653,980.5 LAT. = 32.103760°N LONG. = 103.836056°W FIRST TAKE POINT NAD 27 NME Y = 400,502.5 X = 654,322.1 LAT. = 32.100117°N LONG. = 103.834972°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y = 401,884.3 X = 695,165.8 LAT. = 32.103885°N LONG. = 103.836536°W FIRST TAKE POINT NAD 83 NME Y = 400,560.4 X = 695,507.5 LAT. = 32.100241°N LONG. = 103.835452°W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	CORNER COORDINATES TABLE NAD 27 NME A - Y = 400,845.0 N, X = 653,224.3 E B - Y = 400,851.7 N, X = 654,555.8 E C - Y = 398,185.5 N, X = 653,217.9 E D - Y = 398,193.9 N, X = 654,548.9 E E - Y = 395,525.4 N, X = 653,229.4 E F - Y = 395,536.1 N, X = 654,559.9 E G - Y = 392,863.6 N, X = 653,241.1 E H - Y = 392,873.8 N, X = 654,571.0 E	CORNER COORDINATES TABLE NAD 83 NME A - Y = 400,902.9 N, X = 694,409.7 E B - Y = 400,909.6 N, X = 695,741.2 E C - Y = 398,243.4 N, X = 694,403.4 E D - Y = 398,251.8 N, X = 695,734.4 E E - Y = 395,583.2 N, X = 694,415.0 E F - Y = 395,593.9 N, X = 695,745.5 E G - Y = 392,921.4 N, X = 694,426.7 E H - Y = 392,931.6 N, X = 695,756.7 E	
	LAST TAKE POINT NAD 27 NME Y = 393,202.0 X = 654,339.5 LAT. = 32.080048°N LONG. = 103.835025°W	LAST TAKE POINT NAD 83 NME Y = 393,259.8 X = 695,525.2 LAT. = 32.080173°N LONG. = 103.835504°W	
	BOTTOM HOLE LOCATION NAD 27 NME Y = 393,072.0 X = 654,340.1 LAT. = 32.079691°N LONG. = 103.835025°W	BOTTOM HOLE LOCATION NAD 83 NME Y = 393,129.8 X = 695,525.8 LAT. = 32.079815°N LONG. = 103.835504°W	
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 4-2-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number		MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR JC 2018010048	



Wellbenders Planning Report

Database:	WBDS-SQL 2	Local Co-ordinate Reference:	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker Lake Unit 25 BD	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project:	Eddy County, NM (Nad-27 / East Zone)		
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:	400,908.10 usft
From:	Map	Easting:	652,415.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.101256
		Longitude:	-103.841124
		Grid Convergence:	0.262 °

Well:	#104H		
Well Position	+N/-S	918.20 usft	Northing:
	+E/-W	1,565.20 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	6/27/2019	6.848
			Dip Angle
			(°)
			59.884
			Field Strength
			(nT)
			47,631.43686527

Design:	PERMIT		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			179.86

Plan Survey Tool Program	Date: 6/27/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.00	19,104.89 PERMIT (Wellbore #1)	WBDS_IGRF
			OWSG MWD + IGRF or WMM
			Remarks



Wellbenders Planning Report

Database:	WBDS_SQL_2	Local Co-ordinate Reference	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker Lake Unit 25 BD	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,287.57	5.75	154.63	2,287.09	-13.03	6.18	2.00	2.00	0.00	154.632	
9,921.80	5.75	154.63	9,882.88	-704.30	333.95	0.00	0.00	0.00	0.000	
10,209.37	0.00	179.86	10,169.97	-717.33	340.13	2.00	-2.00	0.00	180.000	
10,674.37	0.00	179.86	10,634.97	-717.33	340.13	0.00	0.00	0.00	0.000	
11,174.37	40.00	179.86	11,095.33	-884.89	340.54	8.00	8.00	0.00	0.000	
11,674.36	90.00	179.86	11,300.00	-1,323.80	341.60	10.00	10.00	0.00	0.000	PLU25BD#104H: FTF
18,974.89	90.00	179.86	11,300.00	-8,624.30	359.29	0.00	0.00	0.00	0.000	PLU25BD#104H: LTP
19,104.89	90.00	179.86	11,300.00	-8,754.30	359.60	0.00	0.00	0.00	0.000	PLU25BD#104H: PBI



Wellbenders Planning Report

Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker-Lake Unit 25 BD	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	154.63	2,099.98	-1.58	0.75	1.58	2.00	2.00	0.00
2,200.00	4.00	154.63	2,199.84	-6.31	2.99	6.31	2.00	2.00	0.00
2,287.57	5.75	154.63	2,287.09	-13.03	6.18	13.05	2.00	2.00	0.00
2,300.00	5.75	154.63	2,299.45	-14.16	6.71	14.17	0.00	0.00	0.00
2,400.00	5.75	154.63	2,398.95	-23.21	11.01	23.24	0.00	0.00	0.00
2,500.00	5.75	154.63	2,498.45	-32.27	15.30	32.30	0.00	0.00	0.00
2,600.00	5.75	154.63	2,597.94	-41.32	19.59	41.37	0.00	0.00	0.00
2,700.00	5.75	154.63	2,697.44	-50.38	23.89	50.43	0.00	0.00	0.00
2,800.00	5.75	154.63	2,796.94	-59.43	28.18	59.50	0.00	0.00	0.00
2,900.00	5.75	154.63	2,896.43	-68.49	32.47	68.56	0.00	0.00	0.00
3,000.00	5.75	154.63	2,995.93	-77.54	36.77	77.63	0.00	0.00	0.00
3,100.00	5.75	154.63	3,095.43	-86.60	41.06	86.70	0.00	0.00	0.00
3,200.00	5.75	154.63	3,194.92	-95.65	45.35	95.76	0.00	0.00	0.00
3,300.00	5.75	154.63	3,294.42	-104.71	49.65	104.83	0.00	0.00	0.00
3,400.00	5.75	154.63	3,393.92	-113.76	53.94	113.89	0.00	0.00	0.00
3,500.00	5.75	154.63	3,493.41	-122.82	58.23	122.96	0.00	0.00	0.00
3,600.00	5.75	154.63	3,592.91	-131.87	62.53	132.02	0.00	0.00	0.00
3,700.00	5.75	154.63	3,692.41	-140.92	66.82	141.09	0.00	0.00	0.00
3,800.00	5.75	154.63	3,791.90	-149.98	71.11	150.15	0.00	0.00	0.00
3,900.00	5.75	154.63	3,891.40	-159.03	75.41	159.22	0.00	0.00	0.00
4,000.00	5.75	154.63	3,990.90	-168.09	79.70	168.28	0.00	0.00	0.00
4,100.00	5.75	154.63	4,090.39	-177.14	83.99	177.35	0.00	0.00	0.00
4,200.00	5.75	154.63	4,189.89	-186.20	88.29	186.41	0.00	0.00	0.00
4,300.00	5.75	154.63	4,289.39	-195.25	92.58	195.48	0.00	0.00	0.00
4,400.00	5.75	154.63	4,388.88	-204.31	96.88	204.55	0.00	0.00	0.00
4,500.00	5.75	154.63	4,488.38	-213.36	101.17	213.61	0.00	0.00	0.00
4,600.00	5.75	154.63	4,587.88	-222.42	105.46	222.68	0.00	0.00	0.00
4,700.00	5.75	154.63	4,687.37	-231.47	109.76	231.74	0.00	0.00	0.00
4,800.00	5.75	154.63	4,786.87	-240.53	114.05	240.81	0.00	0.00	0.00
4,900.00	5.75	154.63	4,886.37	-249.58	118.34	249.87	0.00	0.00	0.00
5,000.00	5.75	154.63	4,985.86	-258.64	122.64	258.94	0.00	0.00	0.00
5,100.00	5.75	154.63	5,085.36	-267.69	126.93	268.00	0.00	0.00	0.00
5,200.00	5.75	154.63	5,184.86	-276.75	131.22	277.07	0.00	0.00	0.00



Wellbenders Planning Report

Database:	WBDS SQL 2	Local Co-ordinate Reference:	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker Lake Unit 25.BD	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	5.75	154.63	5,284.35	-285.80	135.52	286.13	0.00	0.00	0.00
5,400.00	5.75	154.63	5,383.85	-294.86	139.81	295.20	0.00	0.00	0.00
5,500.00	5.75	154.63	5,483.35	-303.91	144.10	304.26	0.00	0.00	0.00
5,600.00	5.75	154.63	5,582.84	-312.97	148.40	313.33	0.00	0.00	0.00
5,700.00	5.75	154.63	5,682.34	-322.02	152.69	322.40	0.00	0.00	0.00
5,800.00	5.75	154.63	5,781.84	-331.08	156.98	331.46	0.00	0.00	0.00
5,900.00	5.75	154.63	5,881.33	-340.13	161.28	340.53	0.00	0.00	0.00
6,000.00	5.75	154.63	5,980.83	-349.19	165.57	349.59	0.00	0.00	0.00
6,100.00	5.75	154.63	6,080.33	-358.24	169.86	358.66	0.00	0.00	0.00
6,200.00	5.75	154.63	6,179.82	-367.30	174.16	367.72	0.00	0.00	0.00
6,300.00	5.75	154.63	6,279.32	-376.35	178.45	376.79	0.00	0.00	0.00
6,400.00	5.75	154.63	6,378.82	-385.41	182.74	385.85	0.00	0.00	0.00
6,500.00	5.75	154.63	6,478.31	-394.46	187.04	394.92	0.00	0.00	0.00
6,600.00	5.75	154.63	6,577.81	-403.52	191.33	403.98	0.00	0.00	0.00
6,700.00	5.75	154.63	6,677.31	-412.57	195.63	413.05	0.00	0.00	0.00
6,800.00	5.75	154.63	6,776.80	-421.63	199.92	422.11	0.00	0.00	0.00
6,900.00	5.75	154.63	6,876.30	-430.68	204.21	431.18	0.00	0.00	0.00
7,000.00	5.75	154.63	6,975.80	-439.74	208.51	440.25	0.00	0.00	0.00
7,100.00	5.75	154.63	7,075.29	-448.79	212.80	449.31	0.00	0.00	0.00
7,200.00	5.75	154.63	7,174.79	-457.85	217.09	458.38	0.00	0.00	0.00
7,300.00	5.75	154.63	7,274.29	-466.90	221.39	467.44	0.00	0.00	0.00
7,400.00	5.75	154.63	7,373.78	-475.96	225.68	476.51	0.00	0.00	0.00
7,500.00	5.75	154.63	7,473.28	-485.01	229.97	485.57	0.00	0.00	0.00
7,600.00	5.75	154.63	7,572.78	-494.07	234.27	494.64	0.00	0.00	0.00
7,700.00	5.75	154.63	7,672.27	-503.12	238.56	503.70	0.00	0.00	0.00
7,800.00	5.75	154.63	7,771.77	-512.18	242.85	512.77	0.00	0.00	0.00
7,900.00	5.75	154.63	7,871.26	-521.23	247.15	521.83	0.00	0.00	0.00
8,000.00	5.75	154.63	7,970.76	-530.29	251.44	530.90	0.00	0.00	0.00
8,100.00	5.75	154.63	8,070.26	-539.34	255.73	539.96	0.00	0.00	0.00
8,200.00	5.75	154.63	8,169.75	-548.40	260.03	549.03	0.00	0.00	0.00
8,300.00	5.75	154.63	8,269.25	-557.45	264.32	558.09	0.00	0.00	0.00
8,400.00	5.75	154.63	8,368.75	-566.51	268.61	567.16	0.00	0.00	0.00
8,500.00	5.75	154.63	8,468.24	-575.56	272.91	576.23	0.00	0.00	0.00
8,600.00	5.75	154.63	8,567.74	-584.62	277.20	585.29	0.00	0.00	0.00
8,700.00	5.75	154.63	8,667.24	-593.67	281.49	594.36	0.00	0.00	0.00
8,800.00	5.75	154.63	8,766.73	-602.73	285.79	603.42	0.00	0.00	0.00
8,900.00	5.75	154.63	8,866.23	-611.78	290.08	612.49	0.00	0.00	0.00
9,000.00	5.75	154.63	8,965.73	-620.84	294.38	621.55	0.00	0.00	0.00
9,100.00	5.75	154.63	9,065.22	-629.89	298.67	630.62	0.00	0.00	0.00
9,200.00	5.75	154.63	9,164.72	-638.94	302.96	639.68	0.00	0.00	0.00
9,300.00	5.75	154.63	9,264.22	-648.00	307.26	648.75	0.00	0.00	0.00
9,400.00	5.75	154.63	9,363.71	-657.05	311.55	657.81	0.00	0.00	0.00
9,500.00	5.75	154.63	9,463.21	-666.11	315.84	666.88	0.00	0.00	0.00
9,600.00	5.75	154.63	9,562.71	-675.16	320.14	675.94	0.00	0.00	0.00
9,700.00	5.75	154.63	9,662.20	-684.22	324.43	685.01	0.00	0.00	0.00
9,800.00	5.75	154.63	9,761.70	-693.27	328.72	694.08	0.00	0.00	0.00
9,900.00	5.75	154.63	9,861.20	-702.33	333.02	703.14	0.00	0.00	0.00
9,921.80	5.75	154.63	9,882.88	-704.30	333.95	705.12	0.00	0.00	0.00
10,000.00	4.19	154.63	9,960.79	-710.42	336.85	711.24	2.00	-2.00	0.00
10,100.00	2.19	154.63	10,060.63	-715.45	339.24	716.27	2.00	-2.00	0.00
10,209.37	0.00	179.86	10,169.97	-717.33	340.13	718.16	2.00	-2.00	0.00
10,300.00	0.00	0.00	10,260.60	-717.33	340.13	718.16	0.00	0.00	0.00
10,400.00	0.00	0.00	10,360.60	-717.33	340.13	718.16	0.00	0.00	0.00
10,500.00	0.00	0.00	10,460.60	-717.33	340.13	718.16	0.00	0.00	0.00



Wellbenders Planning Report

Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft.
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker Lake Unit 25 BD	North Reference:	Grid:
Well:	#104H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	0.00	0.00	10,560.60	-717.33	340.13	718.16	0.00	0.00	0.00
10,674.37	0.00	179.86	10,634.97	-717.33	340.13	718.16	0.00	0.00	0.00
10,700.00	2.05	179.86	10,660.60	-717.79	340.13	718.62	8.00	8.00	0.00
10,750.00	6.05	179.86	10,710.46	-721.32	340.14	722.15	8.00	8.00	0.00
10,800.00	10.05	179.86	10,759.96	-728.32	340.16	729.15	8.00	8.00	0.00
10,850.00	14.05	179.86	10,808.85	-738.76	340.18	739.59	8.00	8.00	0.00
10,900.00	18.05	179.86	10,856.89	-752.58	340.22	753.41	8.00	8.00	0.00
10,950.00	22.05	179.86	10,903.85	-769.72	340.26	770.55	8.00	8.00	0.00
11,000.00	26.05	179.86	10,949.50	-790.09	340.31	790.92	8.00	8.00	0.00
11,050.00	30.05	179.86	10,993.62	-813.60	340.36	814.43	8.00	8.00	0.00
11,100.00	34.05	179.86	11,035.99	-840.13	340.43	840.96	8.00	8.00	0.00
11,150.00	38.05	179.86	11,076.41	-869.55	340.50	870.38	8.00	8.00	0.00
11,174.37	40.00	179.86	11,095.33	-884.89	340.54	885.72	8.00	8.00	0.00
11,200.00	42.56	179.86	11,114.60	-901.80	340.58	902.63	10.00	10.00	0.00
11,250.00	47.56	179.86	11,149.90	-937.19	340.66	938.01	10.00	10.00	0.00
11,300.00	52.56	179.86	11,181.99	-975.51	340.76	976.34	10.00	10.00	0.00
11,350.00	57.56	179.86	11,210.61	-1,016.49	340.86	1,017.32	10.00	10.00	0.00
11,400.00	62.56	179.86	11,235.56	-1,059.80	340.96	1,060.63	10.00	10.00	0.00
11,450.00	67.56	179.86	11,256.63	-1,105.13	341.07	1,105.96	10.00	10.00	0.00
11,500.00	72.56	179.86	11,273.67	-1,152.11	341.18	1,152.95	10.00	10.00	0.00
11,550.00	77.56	179.86	11,286.56	-1,200.41	341.30	1,201.24	10.00	10.00	0.00
11,600.00	82.56	179.86	11,295.18	-1,249.64	341.42	1,250.47	10.00	10.00	0.00
11,650.00	87.56	179.86	11,299.48	-1,299.44	341.54	1,300.27	10.00	10.00	0.00
11,674.36	90.00	179.86	11,300.00	-1,323.80	341.60	1,324.63	10.00	10.00	0.00
11,700.00	90.00	179.86	11,300.00	-1,349.44	341.66	1,350.27	0.00	0.00	0.00
11,800.00	90.00	179.86	11,300.00	-1,449.44	341.90	1,450.27	0.00	0.00	0.00
11,900.00	90.00	179.86	11,300.00	-1,549.43	342.15	1,550.27	0.00	0.00	0.00
12,000.00	90.00	179.86	11,300.00	-1,649.43	342.39	1,650.27	0.00	0.00	0.00
12,100.00	90.00	179.86	11,300.00	-1,749.43	342.63	1,750.27	0.00	0.00	0.00
12,200.00	90.00	179.86	11,300.00	-1,849.43	342.87	1,850.27	0.00	0.00	0.00
12,300.00	90.00	179.86	11,300.00	-1,949.43	343.12	1,950.27	0.00	0.00	0.00
12,400.00	90.00	179.86	11,300.00	-2,049.43	343.36	2,050.27	0.00	0.00	0.00
12,500.00	90.00	179.86	11,300.00	-2,149.43	343.60	2,150.27	0.00	0.00	0.00
12,600.00	90.00	179.86	11,300.00	-2,249.43	343.84	2,250.27	0.00	0.00	0.00
12,700.00	90.00	179.86	11,300.00	-2,349.43	344.08	2,350.27	0.00	0.00	0.00
12,800.00	90.00	179.86	11,300.00	-2,449.43	344.33	2,450.27	0.00	0.00	0.00
12,900.00	90.00	179.86	11,300.00	-2,549.43	344.57	2,550.27	0.00	0.00	0.00
13,000.00	90.00	179.86	11,300.00	-2,649.43	344.81	2,650.27	0.00	0.00	0.00
13,100.00	90.00	179.86	11,300.00	-2,749.43	345.05	2,750.27	0.00	0.00	0.00
13,200.00	90.00	179.86	11,300.00	-2,849.43	345.30	2,850.27	0.00	0.00	0.00
13,300.00	90.00	179.86	11,300.00	-2,949.43	345.54	2,950.27	0.00	0.00	0.00
13,400.00	90.00	179.86	11,300.00	-3,049.43	345.78	3,050.27	0.00	0.00	0.00
13,500.00	90.00	179.86	11,300.00	-3,149.43	346.02	3,150.27	0.00	0.00	0.00
13,600.00	90.00	179.86	11,300.00	-3,249.43	346.26	3,250.27	0.00	0.00	0.00
13,700.00	90.00	179.86	11,300.00	-3,349.43	346.51	3,350.27	0.00	0.00	0.00
13,800.00	90.00	179.86	11,300.00	-3,449.43	346.75	3,450.27	0.00	0.00	0.00
13,900.00	90.00	179.86	11,300.00	-3,549.43	346.99	3,550.27	0.00	0.00	0.00
14,000.00	90.00	179.86	11,300.00	-3,649.43	347.23	3,650.27	0.00	0.00	0.00
14,100.00	90.00	179.86	11,300.00	-3,749.43	347.48	3,750.27	0.00	0.00	0.00
14,200.00	90.00	179.86	11,300.00	-3,849.43	347.72	3,850.27	0.00	0.00	0.00
14,300.00	90.00	179.86	11,300.00	-3,949.43	347.96	3,950.27	0.00	0.00	0.00
14,400.00	90.00	179.86	11,300.00	-4,049.43	348.20	4,050.27	0.00	0.00	0.00
14,500.00	90.00	179.86	11,300.00	-4,149.43	348.44	4,150.27	0.00	0.00	0.00
14,600.00	90.00	179.86	11,300.00	-4,249.43	348.69	4,250.27	0.00	0.00	0.00



Wellbenders Planning Report

Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker Lake Unit 25 BD	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,700.00	90.00	179.86	11,300.00	-4,349.43	348.93	4,350.27	0.00	0.00	0.00
14,800.00	90.00	179.86	11,300.00	-4,449.43	349.17	4,450.27	0.00	0.00	0.00
14,900.00	90.00	179.86	11,300.00	-4,549.43	349.41	4,550.27	0.00	0.00	0.00
15,000.00	90.00	179.86	11,300.00	-4,649.43	349.66	4,650.27	0.00	0.00	0.00
15,100.00	90.00	179.86	11,300.00	-4,749.43	349.90	4,750.27	0.00	0.00	0.00
15,200.00	90.00	179.86	11,300.00	-4,849.43	350.14	4,850.27	0.00	0.00	0.00
15,300.00	90.00	179.86	11,300.00	-4,949.42	350.38	4,950.27	0.00	0.00	0.00
15,400.00	90.00	179.86	11,300.00	-5,049.42	350.63	5,050.27	0.00	0.00	0.00
15,500.00	90.00	179.86	11,300.00	-5,149.42	350.87	5,150.27	0.00	0.00	0.00
15,600.00	90.00	179.86	11,300.00	-5,249.42	351.11	5,250.27	0.00	0.00	0.00
15,700.00	90.00	179.86	11,300.00	-5,349.42	351.35	5,350.27	0.00	0.00	0.00
15,800.00	90.00	179.86	11,300.00	-5,449.42	351.59	5,450.27	0.00	0.00	0.00
15,900.00	90.00	179.86	11,300.00	-5,549.42	351.84	5,550.27	0.00	0.00	0.00
16,000.00	90.00	179.86	11,300.00	-5,649.42	352.08	5,650.27	0.00	0.00	0.00
16,100.00	90.00	179.86	11,300.00	-5,749.42	352.32	5,750.27	0.00	0.00	0.00
16,200.00	90.00	179.86	11,300.00	-5,849.42	352.56	5,850.27	0.00	0.00	0.00
16,300.00	90.00	179.86	11,300.00	-5,949.42	352.81	5,950.27	0.00	0.00	0.00
16,400.00	90.00	179.86	11,300.00	-6,049.42	353.05	6,050.27	0.00	0.00	0.00
16,500.00	90.00	179.86	11,300.00	-6,149.42	353.29	6,150.27	0.00	0.00	0.00
16,600.00	90.00	179.86	11,300.00	-6,249.42	353.53	6,250.27	0.00	0.00	0.00
16,700.00	90.00	179.86	11,300.00	-6,349.42	353.77	6,350.27	0.00	0.00	0.00
16,800.00	90.00	179.86	11,300.00	-6,449.42	354.02	6,450.27	0.00	0.00	0.00
16,900.00	90.00	179.86	11,300.00	-6,549.42	354.26	6,550.27	0.00	0.00	0.00
17,000.00	90.00	179.86	11,300.00	-6,649.42	354.50	6,650.27	0.00	0.00	0.00
17,100.00	90.00	179.86	11,300.00	-6,749.42	354.74	6,750.27	0.00	0.00	0.00
17,200.00	90.00	179.86	11,300.00	-6,849.42	354.99	6,850.27	0.00	0.00	0.00
17,300.00	90.00	179.86	11,300.00	-6,949.42	355.23	6,950.27	0.00	0.00	0.00
17,400.00	90.00	179.86	11,300.00	-7,049.42	355.47	7,050.27	0.00	0.00	0.00
17,500.00	90.00	179.86	11,300.00	-7,149.42	355.71	7,150.27	0.00	0.00	0.00
17,600.00	90.00	179.86	11,300.00	-7,249.42	355.95	7,250.27	0.00	0.00	0.00
17,700.00	90.00	179.86	11,300.00	-7,349.42	356.20	7,350.27	0.00	0.00	0.00
17,800.00	90.00	179.86	11,300.00	-7,449.42	356.44	7,450.27	0.00	0.00	0.00
17,900.00	90.00	179.86	11,300.00	-7,549.42	356.68	7,550.27	0.00	0.00	0.00
18,000.00	90.00	179.86	11,300.00	-7,649.42	356.92	7,650.27	0.00	0.00	0.00
18,100.00	90.00	179.86	11,300.00	-7,749.42	357.17	7,750.27	0.00	0.00	0.00
18,200.00	90.00	179.86	11,300.00	-7,849.42	357.41	7,850.27	0.00	0.00	0.00
18,300.00	90.00	179.86	11,300.00	-7,949.42	357.65	7,950.27	0.00	0.00	0.00
18,400.00	90.00	179.86	11,300.00	-8,049.42	357.89	8,050.27	0.00	0.00	0.00
18,500.00	90.00	179.86	11,300.00	-8,149.42	358.13	8,150.27	0.00	0.00	0.00
18,600.00	90.00	179.86	11,300.00	-8,249.42	358.38	8,250.27	0.00	0.00	0.00
18,700.00	90.00	179.86	11,300.00	-8,349.41	358.62	8,350.27	0.00	0.00	0.00
18,800.00	90.00	179.86	11,300.00	-8,449.41	358.86	8,450.27	0.00	0.00	0.00
18,900.00	90.00	179.86	11,300.00	-8,549.41	359.10	8,550.27	0.00	0.00	0.00
18,974.89	90.00	179.86	11,300.00	-8,624.30	359.29	8,625.15	0.00	0.00	0.00
19,000.00	90.00	179.86	11,300.00	-8,649.41	359.35	8,650.27	0.00	0.00	0.00
19,104.89	90.00	179.86	11,300.00	-8,754.30	359.60	8,755.15	0.00	0.00	0.00



Wellbenders Planning Report

Database:	WBDS - SQL 2	Local Co-ordinate Reference:	Well #104H
Company:	XTO Energy	TVD Reference:	RKB=26' @ 3372.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB=26' @ 3372.00usft
Site:	Poker Lake Unit 25 BD	North Reference:	Grid
Well:	#104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Design Targets									
Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PLU25BD#104H: SHL (;	0.00	0.00	0.00	0.00	0.00	401,826.30	653,980.50	32.103760	-103.836056
- plan hits target center									
- Point									
PLU25BD#104H: LTP	0.00	0.00	11,300.00	-8,624.30	359.00	393,202.00	654,339.50	32.080048	-103.835025
- plan misses target center by 0.29usft at 18974.89usft MD (11300.00 TVD, -8624.30 N, 359.29 E)									
- Point									
PLU25BD#104H: FTP/LI	0.00	0.00	11,300.00	-1,323.80	341.60	400,502.50	654,322.10	32.100117	-103.834972
- plan hits target center									
- Point									
PLU25BD#104H: PBHL	0.00	0.00	11,300.00	-8,754.30	359.60	393,072.00	654,340.10	32.079691	-103.835025
- plan hits target center									
- Point									

Formations							
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction		
(usft)	(usft)			(°)	(°)		
1,034.00	1,034.00	RUSTLER		0.000			
1,222.00	1,222.00	TOP SALT		0.000			
3,820.20	3,812.00	BASE SALT		0.000			
4,033.27	4,024.00	DELAWARE		0.000			
5,007.17	4,993.00	CHERRY CANYON		0.000			
6,413.25	6,392.00	BRUSHY CANYON		0.000			
7,919.84	7,891.00	BONE SPRING		0.000			
8,924.89	8,891.00	1ST BONE SPRING Ss		0.000			
9,279.68	9,244.00	2ND BONE SPRING Lm		0.000			
9,671.65	9,634.00	2ND BONE SPRING Ss		0.000			
10,007.23	9,968.00	3RD BONE SPRING Lm		0.000			
10,444.40	10,405.00	BONE SPRING HARKEY SAND		0.000			
10,876.05	10,834.00	3RD BONE SPRING Ss		0.000			
11,306.65	11,186.00	WOLFCAMP		0.000			
11,364.05	11,218.00	WOLFCAMP X		0.000			
11,615.71	11,297.00	WOLFCAMP Y		0.000			
11,674.36	11,300.00	LP		0.000			
11,674.36	11,300.00	WOLFCAMP A		0.000			

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 703H
SURFACE HOLE FOOTAGE:	1685' FNL & 2085' FWL
BOTTOM HOLE FOOTAGE:	0200' FSL & 2430' FWL Sec. 36, T. 25 S., R 30 E.
LOCATION:	Section 25, 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. **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. **Alternative when using skid/walking rig**
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 **1150 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.

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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. 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.**

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.

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