

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
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.
NMNM030453

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
891000303X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
POKER LAKE UNIT 13 DTD 701H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.
30-015-45842-00-X1

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

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

Sec 24 T24S R30E NWNW 220FNL 35FWL
32.210037 N Lat, 103.842857 W Lon

11. County or Parish, State

EDDY COUNTY, NM

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 APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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:

Change formation from Wildcat Bone Spring (Oil) to Purple Sage; Wolfcamp(Gas).

Change BHL from 2440'FNL & 330'FWL, Sec. 36-T24S-R30E to 200'FSL & 598'FWL, Sec. 25-T24S-R30E.

Change from a 3-string casing design to a 4-string casing design per the attached program.

In addition, 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

RECEIVED

AUG 21 2019

DISTRICT/ARTESIA/O.C.D.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #473565 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 07/16/2019 (19PP2821SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 07/16/2019

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

AUG 14 2019

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)

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

RVP10-28-19

Additional data for EC transaction #473565 that would not fit on the form

32. Additional remarks, continued

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.

Poker Lake Unit 13 DTD 121H - 30-015-45825

Poker Lake Unit 13 DTD 901H - 30-015-45844

Poker Lake Unit 13 DTD 701H - 30-015-45842

Poker Lake Unit 13 DTD 122H - 30-015-45820

Poker Lake Unit 13 DTD 102H - 30-015-45816

Poker Lake Unit 13 DTD 202H - API Pending

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

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AUG 21 2019

DISTRICT II-ARTESIA O.C.D.

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- 45842		² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 13 DTD		⁶ Well Number 701H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC		⁹ Elevation 3,440'

¹⁰ Surface Location

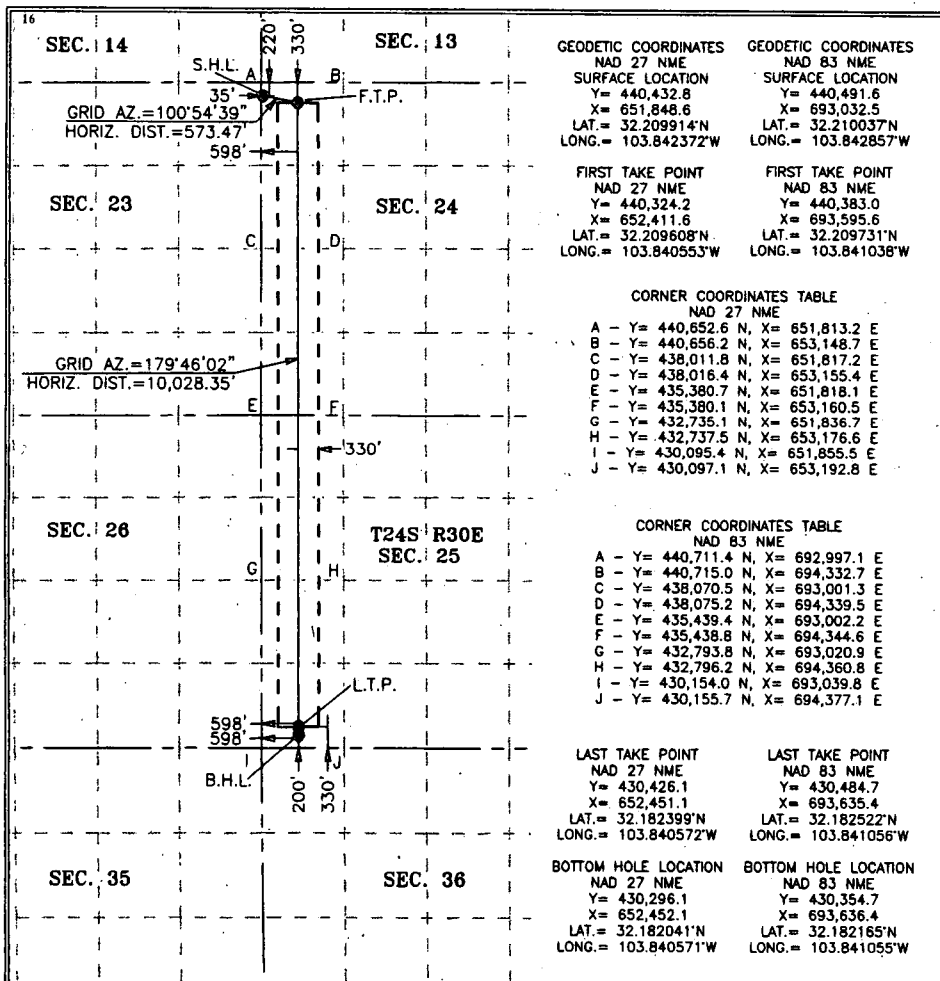
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	24 S	30 E		220	NORTH	35	WEST	EDDY

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
M	25	24 S	30 E		200	SOUTH	598	WEST	EDDY

¹² Dedicated Acres 640	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.



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.

Kelly Kardos

7.16.19

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.

05-07-2019

Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number



JC/TM

2018010143

RUT 10-29-19

Intent ☒ As Drilled ☐

API #
30-015-45842

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 13 DTD	Well Number 701H
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Kick Off Point (KOP)

UL D	Section 24	Township 24S	Range 30E	Lot	Feet 220	From N/S North	Feet 35	From E/W West	County Eddy
Latitude 32.210133					Longitude -103.842857			NAD NAD83	

First Take Point (FTP)

UL D	Section 24	Township 24S	Range 30E	Lot	Feet 330	From N/S North	Feet 598	From E/W West	County Eddy
Latitude 32.209731					Longitude -103.841038			NAD NAD83	

Last Take Point (LTP)

UL M	Section 25	Township 24S	Range 30E	Lot	Feet 330	From N/S South	Feet 598	From E/W West	County Eddy
Latitude 32.182522					Longitude -103.841056			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 13 DTD	Well Number 202H
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KZ 06/29/2018

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

XTO Energy Inc.
PLU 13 Dog Town Draw 101H
Projected TD: 21712' MD / 11316' TVD
SHL: 220' FNL & 35' FWL , Section 24, T24S, R30E
BHL: 200' FSL & 598' FWL , Section 25, T24S, 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	448'	Water
Top of Salt	838'	Water
Base of Salt	3888'	Water
Delaware	4123'	Water
Bone Spring	7928'	Water/Oil/Gas
1st Bone Spring Ss	8928'	Water/Oil/Gas
2nd Bone Spring Ss	9693'	Water/Oil/Gas
3rd Bone Spring Ss	10833'	Water/Oil/Gas
Wolfcamp	11263'	Water/Oil/Gas
Wolfcamp X/Y	11283'	Water/Oil/Gas
Target/Land Curve	11316'	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 @ 570' (268' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 3940' and circulating cement to surface. An 8-3/4 inch vertical and curve hole will be drilled and 7 inch casing run and cemented 500' into the 9-5/8 inch casing. A 6 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 250' into the 7 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 570'	13-3/8"	54.5	BTC	J-55	New	2.23	4.33	31.18
12-1/4"	0' - 3940'	9-5/8"	40	BTC	J-55	New	1.33	2.07	4.44
8-3/4"	0' - 11684'	7"	32	BTC	P-110	New	1.31	1.97	2.65
6"	10684' - 21712'	4-1/2"	13.5	BTC	P-110	New	1.31	2.86	2.06

- 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 +/- 570'

Lead: 200 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

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

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

Intermediate Casing: 9-5/8", 40 New J-55, BTC casing to be set at +/- 3940'

Lead: 1140 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 +/- 11684'

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 +/- 21712'

Tail: 930 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 3689 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 570'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
570' to 3940'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3940' to 11684'	8-3/4"	FW / Cut Brine	8.6-9.5	29-32	NC - 20
11684' to 21712'	6"	FW / Cut Brine / Polymer	10.2-10.5	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.

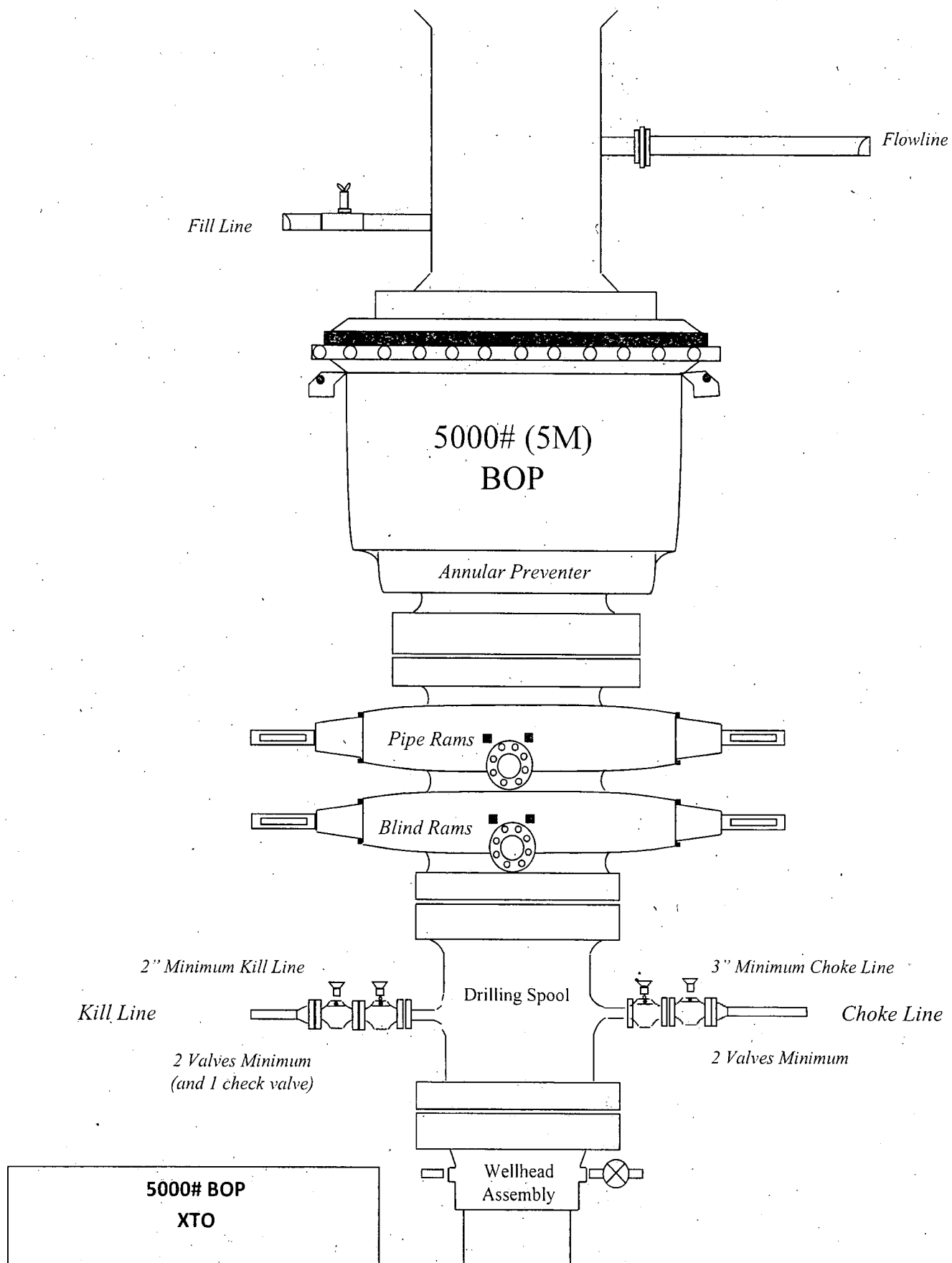
Open hole logging will not be done on this well.

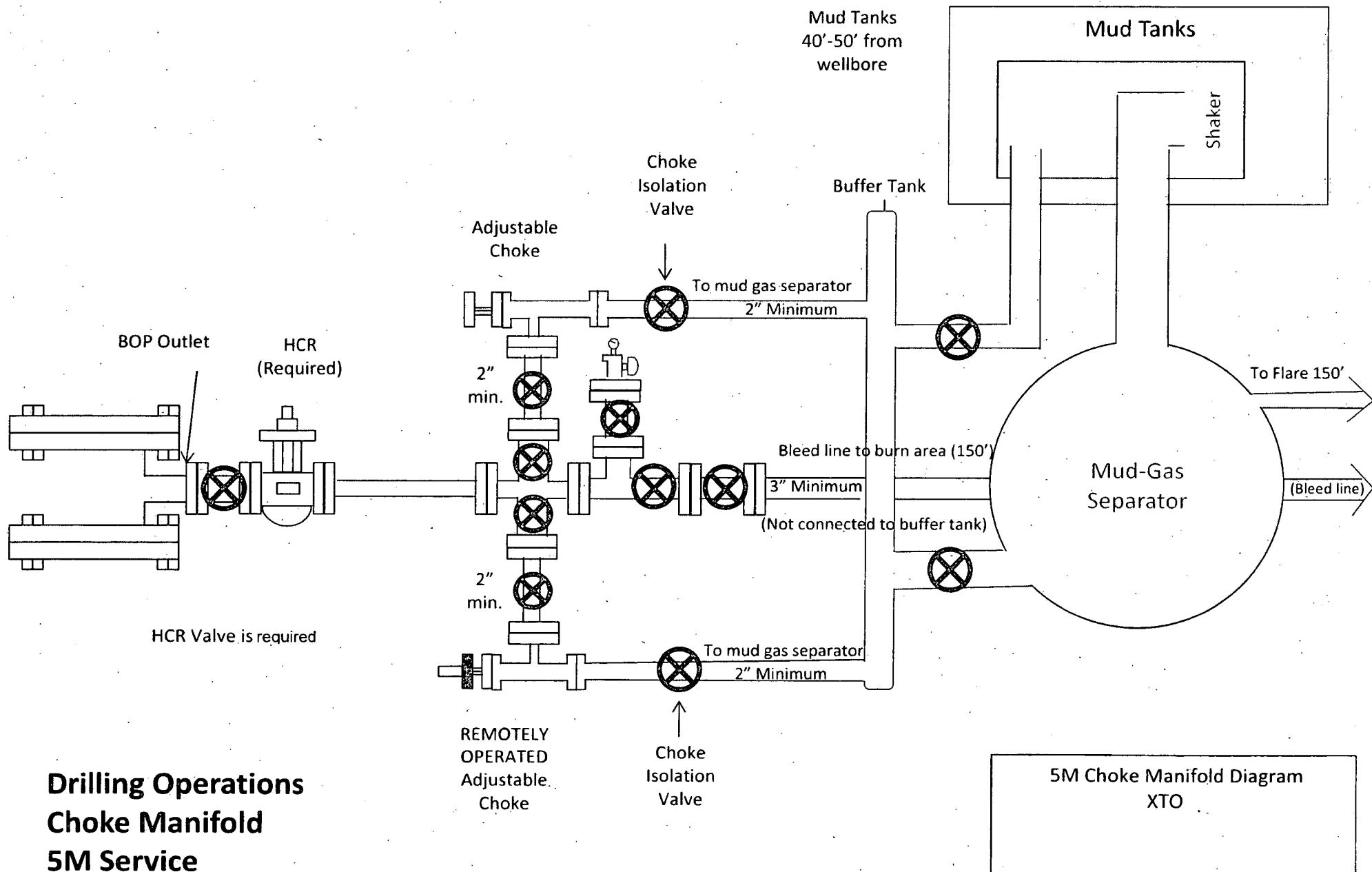
9. Abnormal Pressures and Temperatures / Potential Hazards

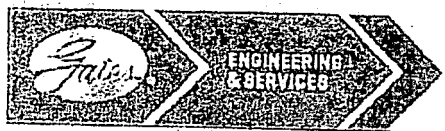
None Anticipated. BHT of 150 to 170 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 6179 psi.

10. Anticipated Starting Date and Duration of Operations

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







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

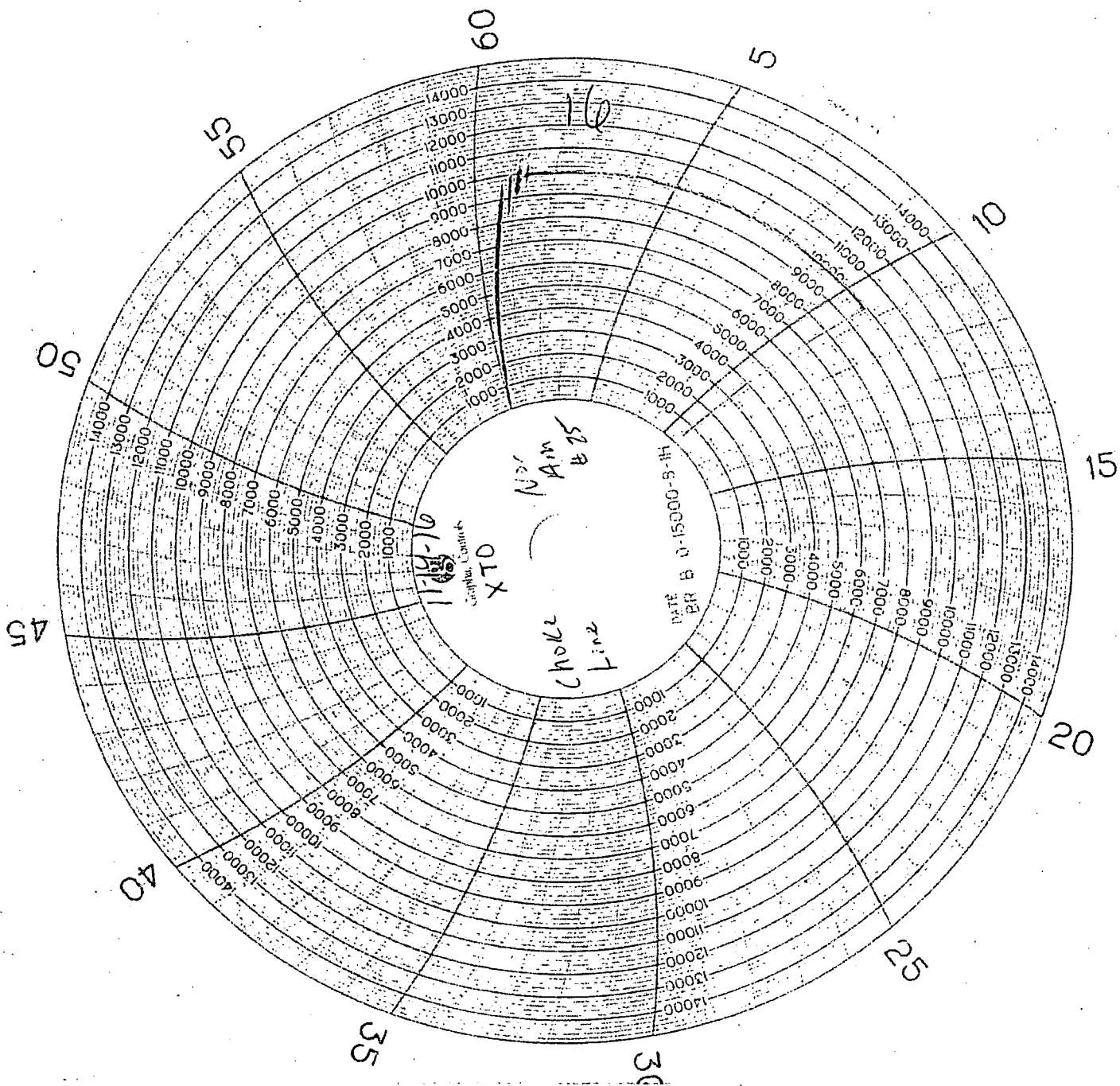
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

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:	FD3.042.0R41/16.5KFLGE/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 :	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:	





XTO Energy

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

Poker Lake Unit 13 DTD

#701H

Wellbore #1

Plan: PERMIT

Standard Planning Report

16 July, 2019

WELLBENDERS
DIRECTIONAL SERVICES





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well#101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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 13 DTD		
Site Position:		Northing:	440,433.60 usft
From:	Map.	Easting:	652,098.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Grid Convergence:	0.262 °

Well	#101H		
Well Position	+N/-S	-0.80 usft	Northing:
	+E/-W	-249.90 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/16/19	6.854	59.980	47,687.54975923

Design	PERMIT				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	179.77	

Plan Survey Tool Program	Date 07/16/19				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,712.74	PERMIT (Wellbore #1)	WBDS_IGRF	
				OWSG MWD + IGRF or WA	



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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	
2,346.26	5.19	48.39	2,345.79	10.41	11.73	1.50	1.50	0.00	48.390	
10,324.87	5.19	48.39	10,291.63	490.05	551.76	0.00	0.00	0.00	0.000	
10,584.56	0.00	179.77	10,550.97	497.86	560.55	2.00	-2.00	0.00	180.000	
10,684.56	0.00	179.77	10,650.97	497.86	560.55	0.00	0.00	0.00	0.000	
11,184.56	40.00	179.77	11,111.33	330.31	561.23	-8.00	8.00	0.00	0.000	
11,684.56	90.00	179.77	11,316.00	-108.60	563.00	10.00	10.00	0.00	0.000	PLU13DTD #101H:
21,582.67	90.00	179.77	11,316.00	-10,006.63	602.97	0.00	0.00	0.00	0.000	PLU13DTD #101H:
21,712.74	90.00	179.77	11,316.00	-10,136.70	603.50	0.00	0.00	0.00	0.000	PLU13DTD #101H:



Planning Report



Database: WBDS_SQL_2
Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Poker Lake Unit 13 DTD
Well: #101H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well#101H
TVD Reference: Est RKB = 23' @ 3463.00usft
MD Reference: Est RKB = 23' @ 3463.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
448.00	0.00	0.00	448.00	0.00	0.00	0.00	0.00	0.00	0.00
RSLR									
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
838.00	0.00	0.00	838.00	0.00	0.00	0.00	0.00	0.00	0.00
T/SALT									
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	1.50	48.39	2,099.99	0.87	0.98	-0.87	1.50	1.50	0.00
2,200.00	3.00	48.39	2,199.91	3.48	3.91	-3.46	1.50	1.50	0.00
2,300.00	4.50	48.39	2,299.69	7.82	8.80	-7.78	1.50	1.50	0.00
2,346.26	5.19	48.39	2,345.79	10.41	11.73	-10.37	1.50	1.50	0.00
2,400.00	5.19	48.39	2,399.31	13.65	15.36	-13.58	0.00	0.00	0.00
2,500.00	5.19	48.39	2,498.89	19.66	22.13	-19.57	0.00	0.00	0.00
2,600.00	5.19	48.39	2,598.48	25.67	28.90	-25.55	0.00	0.00	0.00
2,700.00	5.19	48.39	2,698.07	31.68	35.67	-31.54	0.00	0.00	0.00
2,800.00	5.19	48.39	2,797.66	37.69	42.44	-37.52	0.00	0.00	0.00
2,900.00	5.19	48.39	2,897.25	43.70	49.21	-43.51	0.00	0.00	0.00
3,000.00	5.19	48.39	2,996.84	49.71	55.97	-49.49	0.00	0.00	0.00
3,100.00	5.19	48.39	3,096.43	55.73	62.74	-55.47	0.00	0.00	0.00
3,200.00	5.19	48.39	3,196.02	61.74	69.51	-61.46	0.00	0.00	0.00
3,300.00	5.19	48.39	3,295.61	67.75	76.28	-67.44	0.00	0.00	0.00
3,400.00	5.19	48.39	3,395.20	73.76	83.05	-73.43	0.00	0.00	0.00
3,500.00	5.19	48.39	3,494.79	79.77	89.82	-79.41	0.00	0.00	0.00
3,600.00	5.19	48.39	3,594.38	85.78	96.59	-85.40	0.00	0.00	0.00
3,700.00	5.19	48.39	3,693.97	91.80	103.35	-91.38	0.00	0.00	0.00
3,800.00	5.19	48.39	3,793.56	97.81	110.12	-97.36	0.00	0.00	0.00
3,894.83	5.19	48.39	3,888.00	103.51	116.54	-103.04	0.00	0.00	0.00
B/SALT									
3,900.00	5.19	48.39	3,893.15	103.82	116.89	-103.35	0.00	0.00	0.00
4,000.00	5.19	48.39	3,992.74	109.83	123.66	-109.33	0.00	0.00	0.00
4,100.00	5.19	48.39	4,092.33	115.84	130.43	-115.32	0.00	0.00	0.00
4,130.80	5.19	48.39	4,123.00	117.69	132.51	-117.16	0.00	0.00	0.00
DLWR									
4,200.00	5.19	48.39	4,191.91	121.85	137.20	-121.30	0.00	0.00	0.00
4,300.00	5.19	48.39	4,291.50	127.86	143.96	-127.29	0.00	0.00	0.00
4,400.00	5.19	48.39	4,391.09	133.88	150.73	-133.27	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well#101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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)
4,500.00	5.19	48.39	4,490.68	139.89	157.50	-139.25	0.00	0.00	0.00
4,600.00	5.19	48.39	4,590.27	145.90	164.27	-145.24	0.00	0.00	0.00
4,700.00	5.19	48.39	4,689.86	151.91	171.04	-151.22	0.00	0.00	0.00
4,800.00	5.19	48.39	4,789.45	157.92	177.81	-157.21	0.00	0.00	0.00
4,900.00	5.19	48.39	4,889.04	163.93	184.58	-163.19	0.00	0.00	0.00
5,000.00	5.19	48.39	4,988.63	169.95	191.34	-169.18	0.00	0.00	0.00
5,100.00	5.19	48.39	5,088.22	175.96	198.11	-175.16	0.00	0.00	0.00
5,200.00	5.19	48.39	5,187.81	181.97	204.88	-181.14	0.00	0.00	0.00
5,300.00	5.19	48.39	5,287.40	187.98	211.65	-187.13	0.00	0.00	0.00
5,400.00	5.19	48.39	5,386.99	193.99	218.42	-193.11	0.00	0.00	0.00
5,500.00	5.19	48.39	5,486.58	200.00	225.19	-199.10	0.00	0.00	0.00
5,600.00	5.19	48.39	5,586.17	206.01	231.95	-205.08	0.00	0.00	0.00
5,700.00	5.19	48.39	5,685.76	212.03	238.72	-211.07	0.00	0.00	0.00
5,800.00	5.19	48.39	5,785.35	218.04	245.49	-217.05	0.00	0.00	0.00
5,900.00	5.19	48.39	5,884.93	224.05	252.26	-223.04	0.00	0.00	0.00
6,000.00	5.19	48.39	5,984.52	230.06	259.03	-229.02	0.00	0.00	0.00
6,100.00	5.19	48.39	6,084.11	236.07	265.80	-235.00	0.00	0.00	0.00
6,200.00	5.19	48.39	6,183.70	242.08	272.57	-240.99	0.00	0.00	0.00
6,300.00	5.19	48.39	6,283.29	248.10	279.33	-246.97	0.00	0.00	0.00
6,400.00	5.19	48.39	6,382.88	254.11	286.10	-252.96	0.00	0.00	0.00
6,500.00	5.19	48.39	6,482.47	260.12	292.87	-258.94	0.00	0.00	0.00
6,600.00	5.19	48.39	6,582.06	266.13	299.64	-264.93	0.00	0.00	0.00
6,631.07	5.19	48.39	6,613.00	268.00	301.74	-266.78	0.00	0.00	0.00
BYCN									
6,700.00	5.19	48.39	6,681.65	272.14	306.41	-270.91	0.00	0.00	0.00
6,800.00	5.19	48.39	6,781.24	278.15	313.18	-276.89	0.00	0.00	0.00
6,900.00	5.19	48.39	6,880.83	284.16	319.94	-282.88	0.00	0.00	0.00
7,000.00	5.19	48.39	6,980.42	290.18	326.71	-288.86	0.00	0.00	0.00
7,100.00	5.19	48.39	7,080.01	296.19	333.48	-294.85	0.00	0.00	0.00
7,200.00	5.19	48.39	7,179.60	302.20	340.25	-300.83	0.00	0.00	0.00
7,300.00	5.19	48.39	7,279.19	308.21	347.02	-306.82	0.00	0.00	0.00
7,400.00	5.19	48.39	7,378.78	314.22	353.79	-312.80	0.00	0.00	0.00
7,500.00	5.19	48.39	7,478.37	320.23	360.56	-318.78	0.00	0.00	0.00
7,600.00	5.19	48.39	7,577.95	326.25	367.32	-324.77	0.00	0.00	0.00
7,700.00	5.19	48.39	7,677.54	332.26	374.09	-330.75	0.00	0.00	0.00
7,800.00	5.19	48.39	7,777.13	338.27	380.86	-336.74	0.00	0.00	0.00
7,900.00	5.19	48.39	7,876.72	344.28	387.63	-342.72	0.00	0.00	0.00
7,951.49	5.19	48.39	7,928.00	347.38	391.11	-345.80	0.00	0.00	0.00
BSPG_LM									
8,000.00	5.19	48.39	7,976.31	350.29	394.40	-348.71	0.00	0.00	0.00
8,100.00	5.19	48.39	8,075.90	356.30	401.17	-354.69	0.00	0.00	0.00
8,200.00	5.19	48.39	8,175.49	362.31	407.94	-360.67	0.00	0.00	0.00
8,300.00	5.19	48.39	8,275.08	368.33	414.70	-366.66	0.00	0.00	0.00
8,400.00	5.19	48.39	8,374.67	374.34	421.47	-372.64	0.00	0.00	0.00
8,500.00	5.19	48.39	8,474.26	380.35	428.24	-378.63	0.00	0.00	0.00
8,600.00	5.19	48.39	8,573.85	386.36	435.01	-384.61	0.00	0.00	0.00
8,700.00	5.19	48.39	8,673.44	392.37	441.78	-390.60	0.00	0.00	0.00
8,800.00	5.19	48.39	8,773.03	398.38	448.55	-396.58	0.00	0.00	0.00
8,900.00	5.19	48.39	8,872.62	404.40	455.31	-402.56	0.00	0.00	0.00
8,955.61	5.19	48.39	8,928.00	407.74	459.08	-405.89	0.00	0.00	0.00
BSPG1									
9,000.00	5.19	48.39	8,972.21	410.41	462.08	-408.55	0.00	0.00	0.00
9,100.00	5.19	48.39	9,071.80	416.42	468.85	-414.53	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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)
9,200.00	5.19	48.39	9,171.38	422.43	475.62	-420.52	0.00	0.00	0.00
9,300.00	5.19	48.39	9,270.97	428.44	482.39	-426.50	0.00	0.00	0.00
9,307.06	5.19	48.39	9,278.00	428.87	482.87	-426.92	0.00	0.00	0.00
BSPG2_LM									
9,400.00	5.19	48.39	9,370.56	434.45	489.16	-432.49	0.00	0.00	0.00
9,500.00	5.19	48.39	9,470.15	440.46	495.93	-438.47	0.00	0.00	0.00
9,600.00	5.19	48.39	9,569.74	446.48	502.69	-444.45	0.00	0.00	0.00
9,700.00	5.19	48.39	9,669.33	452.49	509.46	-450.44	0.00	0.00	0.00
9,723.77	5.19	48.39	9,693.00	453.92	511.07	-451.86	0.00	0.00	0.00
BSPG2									
9,800.00	5.19	48.39	9,768.92	458.50	516.23	-456.42	0.00	0.00	0.00
9,900.00	5.19	48.39	9,868.51	464.51	523.00	-462.41	0.00	0.00	0.00
10,000.00	5.19	48.39	9,968.10	470.52	529.77	-468.39	0.00	0.00	0.00
10,100.00	5.19	48.39	10,067.69	476.53	536.54	-474.38	0.00	0.00	0.00
10,130.44	5.19	48.39	10,098.00	478.36	538.60	-476.20	0.00	0.00	0.00
BSPG3_LM									
10,200.00	5.19	48.39	10,167.28	482.55	543.30	-480.36	0.00	0.00	0.00
10,300.00	5.19	48.39	10,266.87	488.56	550.07	-486.35	0.00	0.00	0.00
10,324.87	5.19	48.39	10,291.63	490.05	551.76	-487.83	0.00	0.00	0.00
10,400.00	3.69	48.39	10,366.54	493.92	556.11	-491.68	2.00	-2.00	0.00
10,500.00	1.69	48.39	10,466.42	497.03	559.62	-494.78	2.00	-2.00	0.00
10,584.56	0.00	179.77	10,550.97	497.86	560.55	-495.61	2.00	-2.00	0.00
10,600.00	0.00	0.00	10,566.41	497.86	560.55	-495.61	0.00	0.00	0.00
10,684.56	0.00	179.77	10,650.97	497.86	560.55	-495.61	0.00	0.00	0.00
10,700.00	1.24	179.77	10,666.41	497.70	560.55	-495.44	8.00	8.00	0.00
10,750.00	5.24	179.77	10,716.32	494.88	560.56	-492.62	8.00	8.00	0.00
10,800.00	9.24	179.77	10,765.91	488.58	560.59	-486.33	8.00	8.00	0.00
10,850.00	13.24	179.77	10,814.94	478.84	560.63	-476.59	8.00	8.00	0.00
10,868.61	14.72	179.77	10,833.00	474.35	560.65	-472.09	8.00	8.00	0.00
BSPG3									
10,900.00	17.24	179.77	10,863.18	465.70	560.68	-463.45	8.00	8.00	0.00
10,950.00	21.24	179.77	10,910.38	449.24	560.75	-446.98	8.00	8.00	0.00
11,000.00	25.24	179.77	10,956.31	429.51	560.83	-427.26	8.00	8.00	0.00
11,050.00	29.24	179.77	11,000.76	406.64	560.92	-404.38	8.00	8.00	0.00
11,100.00	33.24	179.77	11,043.50	380.71	561.02	-378.46	8.00	8.00	0.00
11,150.00	37.24	179.77	11,084.33	351.87	561.14	-349.62	8.00	8.00	0.00
11,184.56	40.00	179.77	11,111.33	330.31	561.23	-328.05	8.00	8.00	0.00
11,200.00	41.54	179.77	11,123.03	320.22	561.27	-317.97	10.00	10.00	0.00
11,250.00	46.54	179.77	11,158.95	285.47	561.41	-283.22	10.00	10.00	0.00
11,300.00	51.54	179.77	11,191.72	247.73	561.56	-245.47	10.00	10.00	0.00
11,350.00	56.54	179.77	11,221.07	207.27	561.72	-205.01	10.00	10.00	0.00
11,400.00	61.54	179.77	11,246.78	164.40	561.90	-162.14	10.00	10.00	0.00
11,436.18	65.16	179.77	11,263.00	132.07	562.03	-129.82	10.00	10.00	0.00
WFMP									
11,450.00	66.54	179.77	11,268.65	119.46	562.08	-117.20	10.00	10.00	0.00
11,489.15	70.46	179.77	11,283.00	83.04	562.23	-80.78	10.00	10.00	0.00
WFMP_X									
11,500.00	71.54	179.77	11,286.53	72.78	562.27	-70.52	10.00	10.00	0.00
11,550.00	76.54	179.77	11,300.27	24.72	562.46	-22.47	10.00	10.00	0.00
11,600.00	81.54	179.77	11,309.77	-24.35	562.66	26.61	10.00	10.00	0.00
11,650.00	86.54	179.77	11,314.96	-74.06	562.86	76.32	10.00	10.00	0.00
11,684.56	90.00	179.77	11,316.00	-108.60	563.00	110.86	10.00	10.00	0.00
LP									



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well#101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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)
11,700.00	90.00	179.77	11,316.00	-124.04	563.06	126.30	0.00	0.00	0.00
11,800.00	90.00	179.77	11,316.00	-224.04	563.47	226.30	0.00	0.00	0.00
11,900.00	90.00	179.77	11,316.00	-324.04	563.87	326.30	0.00	0.00	0.00
12,000.00	90.00	179.77	11,316.00	-424.04	564.27	426.30	0.00	0.00	0.00
12,100.00	90.00	179.77	11,316.00	-524.04	564.68	526.30	0.00	0.00	0.00
12,200.00	90.00	179.77	11,316.00	-624.04	565.08	626.30	0.00	0.00	0.00
12,300.00	90.00	179.77	11,316.00	-724.04	565.49	726.30	0.00	0.00	0.00
12,400.00	90.00	179.77	11,316.00	-824.04	565.89	826.30	0.00	0.00	0.00
12,500.00	90.00	179.77	11,316.00	-924.03	566.29	926.30	0.00	0.00	0.00
12,600.00	90.00	179.77	11,316.00	-1,024.03	566.70	1,026.30	0.00	0.00	0.00
12,700.00	90.00	179.77	11,316.00	-1,124.03	567.10	1,126.30	0.00	0.00	0.00
12,800.00	90.00	179.77	11,316.00	-1,224.03	567.50	1,226.30	0.00	0.00	0.00
12,900.00	90.00	179.77	11,316.00	-1,324.03	567.91	1,326.30	0.00	0.00	0.00
13,000.00	90.00	179.77	11,316.00	-1,424.03	568.31	1,426.30	0.00	0.00	0.00
13,100.00	90.00	179.77	11,316.00	-1,524.03	568.72	1,526.30	0.00	0.00	0.00
13,200.00	90.00	179.77	11,316.00	-1,624.03	569.12	1,626.30	0.00	0.00	0.00
13,300.00	90.00	179.77	11,316.00	-1,724.03	569.52	1,726.30	0.00	0.00	0.00
13,400.00	90.00	179.77	11,316.00	-1,824.03	569.93	1,826.30	0.00	0.00	0.00
13,500.00	90.00	179.77	11,316.00	-1,924.03	570.33	1,926.30	0.00	0.00	0.00
13,600.00	90.00	179.77	11,316.00	-2,024.03	570.74	2,026.30	0.00	0.00	0.00
13,700.00	90.00	179.77	11,316.00	-2,124.03	571.14	2,126.30	0.00	0.00	0.00
13,800.00	90.00	179.77	11,316.00	-2,224.02	571.54	2,226.30	0.00	0.00	0.00
13,900.00	90.00	179.77	11,316.00	-2,324.02	571.95	2,326.30	0.00	0.00	0.00
14,000.00	90.00	179.77	11,316.00	-2,424.02	572.35	2,426.30	0.00	0.00	0.00
14,100.00	90.00	179.77	11,316.00	-2,524.02	572.76	2,526.30	0.00	0.00	0.00
14,200.00	90.00	179.77	11,316.00	-2,624.02	573.16	2,626.30	0.00	0.00	0.00
14,300.00	90.00	179.77	11,316.00	-2,724.02	573.56	2,726.30	0.00	0.00	0.00
14,400.00	90.00	179.77	11,316.00	-2,824.02	573.97	2,826.30	0.00	0.00	0.00
14,500.00	90.00	179.77	11,316.00	-2,924.02	574.37	2,926.30	0.00	0.00	0.00
14,600.00	90.00	179.77	11,316.00	-3,024.02	574.77	3,026.30	0.00	0.00	0.00
14,700.00	90.00	179.77	11,316.00	-3,124.02	575.18	3,126.30	0.00	0.00	0.00
14,800.00	90.00	179.77	11,316.00	-3,224.02	575.58	3,226.30	0.00	0.00	0.00
14,900.00	90.00	179.77	11,316.00	-3,324.02	575.99	3,326.30	0.00	0.00	0.00
15,000.00	90.00	179.77	11,316.00	-3,424.01	576.39	3,426.30	0.00	0.00	0.00
15,100.00	90.00	179.77	11,316.00	-3,524.01	576.79	3,526.30	0.00	0.00	0.00
15,200.00	90.00	179.77	11,316.00	-3,624.01	577.20	3,626.30	0.00	0.00	0.00
15,300.00	90.00	179.77	11,316.00	-3,724.01	577.60	3,726.30	0.00	0.00	0.00
15,400.00	90.00	179.77	11,316.00	-3,824.01	578.01	3,826.30	0.00	0.00	0.00
15,500.00	90.00	179.77	11,316.00	-3,924.01	578.41	3,926.30	0.00	0.00	0.00
15,600.00	90.00	179.77	11,316.00	-4,024.01	578.81	4,026.30	0.00	0.00	0.00
15,700.00	90.00	179.77	11,316.00	-4,124.01	579.22	4,126.30	0.00	0.00	0.00
15,800.00	90.00	179.77	11,316.00	-4,224.01	579.62	4,226.30	0.00	0.00	0.00
15,900.00	90.00	179.77	11,316.00	-4,324.01	580.02	4,326.30	0.00	0.00	0.00
16,000.00	90.00	179.77	11,316.00	-4,424.01	580.43	4,426.30	0.00	0.00	0.00
16,100.00	90.00	179.77	11,316.00	-4,524.01	580.83	4,526.30	0.00	0.00	0.00
16,200.00	90.00	179.77	11,316.00	-4,624.00	581.24	4,626.30	0.00	0.00	0.00
16,300.00	90.00	179.77	11,316.00	-4,724.00	581.64	4,726.30	0.00	0.00	0.00
16,400.00	90.00	179.77	11,316.00	-4,824.00	582.04	4,826.30	0.00	0.00	0.00
16,500.00	90.00	179.77	11,316.00	-4,924.00	582.45	4,926.30	0.00	0.00	0.00
16,600.00	90.00	179.77	11,316.00	-5,024.00	582.85	5,026.30	0.00	0.00	0.00
16,700.00	90.00	179.77	11,316.00	-5,124.00	583.26	5,126.30	0.00	0.00	0.00
16,800.00	90.00	179.77	11,316.00	-5,224.00	583.66	5,226.30	0.00	0.00	0.00
16,900.00	90.00	179.77	11,316.00	-5,324.00	584.06	5,326.30	0.00	0.00	0.00
17,000.00	90.00	179.77	11,316.00	-5,424.00	584.47	5,426.30	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well#101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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)	
17,100.00	90.00	179.77	11,316.00	-5,524.00	584.87	5,526.30	0.00	0.00	0.00	
17,200.00	90.00	179.77	11,316.00	-5,624.00	585.27	5,626.30	0.00	0.00	0.00	
17,300.00	90.00	179.77	11,316.00	-5,724.00	585.68	5,726.30	0.00	0.00	0.00	
17,400.00	90.00	179.77	11,316.00	-5,824.00	586.08	5,826.30	0.00	0.00	0.00	
17,500.00	90.00	179.77	11,316.00	-5,923.99	586.49	5,926.30	0.00	0.00	0.00	
17,600.00	90.00	179.77	11,316.00	-6,023.99	586.89	6,026.30	0.00	0.00	0.00	
17,700.00	90.00	179.77	11,316.00	-6,123.99	587.29	6,126.30	0.00	0.00	0.00	
17,800.00	90.00	179.77	11,316.00	-6,223.99	587.70	6,226.30	0.00	0.00	0.00	
17,900.00	90.00	179.77	11,316.00	-6,323.99	588.10	6,326.30	0.00	0.00	0.00	
18,000.00	90.00	179.77	11,316.00	-6,423.99	588.51	6,426.30	0.00	0.00	0.00	
18,100.00	90.00	179.77	11,316.00	-6,523.99	588.91	6,526.30	0.00	0.00	0.00	
18,200.00	90.00	179.77	11,316.00	-6,623.99	589.31	6,626.30	0.00	0.00	0.00	
18,300.00	90.00	179.77	11,316.00	-6,723.99	589.72	6,726.30	0.00	0.00	0.00	
18,400.00	90.00	179.77	11,316.00	-6,823.99	590.12	6,826.30	0.00	0.00	0.00	
18,500.00	90.00	179.77	11,316.00	-6,923.99	590.52	6,926.30	0.00	0.00	0.00	
18,600.00	90.00	179.77	11,316.00	-7,023.99	590.93	7,026.30	0.00	0.00	0.00	
18,700.00	90.00	179.77	11,316.00	-7,123.98	591.33	7,126.30	0.00	0.00	0.00	
18,800.00	90.00	179.77	11,316.00	-7,223.98	591.74	7,226.30	0.00	0.00	0.00	
18,900.00	90.00	179.77	11,316.00	-7,323.98	592.14	7,326.30	0.00	0.00	0.00	
19,000.00	90.00	179.77	11,316.00	-7,423.98	592.54	7,426.30	0.00	0.00	0.00	
19,100.00	90.00	179.77	11,316.00	-7,523.98	592.95	7,526.30	0.00	0.00	0.00	
19,200.00	90.00	179.77	11,316.00	-7,623.98	593.35	7,626.30	0.00	0.00	0.00	
19,300.00	90.00	179.77	11,316.00	-7,723.98	593.76	7,726.30	0.00	0.00	0.00	
19,400.00	90.00	179.77	11,316.00	-7,823.98	594.16	7,826.30	0.00	0.00	0.00	
19,500.00	90.00	179.77	11,316.00	-7,923.98	594.56	7,926.30	0.00	0.00	0.00	
19,600.00	90.00	179.77	11,316.00	-8,023.98	594.97	8,026.30	0.00	0.00	0.00	
19,700.00	90.00	179.77	11,316.00	-8,123.98	595.37	8,126.30	0.00	0.00	0.00	
19,800.00	90.00	179.77	11,316.00	-8,223.98	595.78	8,226.30	0.00	0.00	0.00	
19,900.00	90.00	179.77	11,316.00	-8,323.97	596.18	8,326.30	0.00	0.00	0.00	
20,000.00	90.00	179.77	11,316.00	-8,423.97	596.58	8,426.30	0.00	0.00	0.00	
20,100.00	90.00	179.77	11,316.00	-8,523.97	596.99	8,526.30	0.00	0.00	0.00	
20,200.00	90.00	179.77	11,316.00	-8,623.97	597.39	8,626.30	0.00	0.00	0.00	
20,300.00	90.00	179.77	11,316.00	-8,723.97	597.79	8,726.30	0.00	0.00	0.00	
20,400.00	90.00	179.77	11,316.00	-8,823.97	598.20	8,826.30	0.00	0.00	0.00	
20,500.00	90.00	179.77	11,316.00	-8,923.97	598.60	8,926.30	0.00	0.00	0.00	
20,600.00	90.00	179.77	11,316.00	-9,023.97	599.01	9,026.30	0.00	0.00	0.00	
20,700.00	90.00	179.77	11,316.00	-9,123.97	599.41	9,126.30	0.00	0.00	0.00	
20,800.00	90.00	179.77	11,316.00	-9,223.97	599.81	9,226.30	0.00	0.00	0.00	
20,900.00	90.00	179.77	11,316.00	-9,323.97	600.22	9,326.30	0.00	0.00	0.00	
21,000.00	90.00	179.77	11,316.00	-9,423.97	600.62	9,426.30	0.00	0.00	0.00	
21,100.00	90.00	179.77	11,316.00	-9,523.96	601.03	9,526.30	0.00	0.00	0.00	
21,200.00	90.00	179.77	11,316.00	-9,623.96	601.43	9,626.30	0.00	0.00	0.00	
21,300.00	90.00	179.77	11,316.00	-9,723.96	601.83	9,726.30	0.00	0.00	0.00	
21,400.00	90.00	179.77	11,316.00	-9,823.96	602.24	9,826.30	0.00	0.00	0.00	
21,500.00	90.00	179.77	11,316.00	-9,923.96	602.64	9,926.30	0.00	0.00	0.00	
21,582.67	90.00	179.77	11,316.00	-10,006.63	602.97	10,008.97	0.00	0.00	0.00	
21,600.00	90.00	179.77	11,316.00	-10,023.96	603.04	10,026.30	0.00	0.00	0.00	
21,700.00	90.00	179.77	11,316.00	-10,123.96	603.45	10,126.30	0.00	0.00	0.00	
21,712.74	90.00	179.77	11,316.00	-10,136.70	603.50	10,139.04	0.00	0.00	0.00	



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #101H
Company:	XTO Energy	TVD Reference:	Est RKB = 23' @ 3463.00usft
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	Est RKB = 23' @ 3463.00usft
Site:	Poker Lake Unit 13 DTD	North Reference:	Grid
Well:	#101H	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									
PLU13DTD #101H: SI	0.00	0.00	0.00	0.00	0.00	440,432.80	651,848.60	32.209914	-103.842372
- plan hits target center									
- Point									
PLU13DTD #101H: LI	0.00	0.00	11,316.00	-10,006.63	602.50	430,426.16	652,451.10	32.182399	-103.840572
- plan misses target center by 0.47usft at 21582.67usft MD (11316.00 TVD, -10006.63 N, 602.97 E)									
- Point									
PLU13DTD #101H: LI	0.00	0.00	11,316.00	-108.60	563.00	440,324.20	652,411.60	32.209608	-103.840553
- plan hits target center									
- Point									
PLU13DTD #101H: PI	0.00	0.00	11,316.00	-10,136.70	603.50	430,296.10	652,452.10	32.182041	-103.840571
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
448.00	448.00	RSLR			
838.00	838.00	T/SALT			
3,894.83	3,888.00	B/SALT			
4,130.80	4,123.00	DLWR			
6,631.07	6,613.00	BYCN			
7,951.49	7,928.00	BSPG_LM			
8,955.61	8,928.00	BSPG1			
9,307.06	9,278.00	BSPG2_LM			
9,723.77	9,693.00	BSPG2			
10,130.44	10,098.00	BSPG3_LM			
10,868.61	10,833.00	BSPG3			
11,436.18	11,263.00	WFMP			
11,489.15	11,283.00	WFMP_X			
11,684.56	11,316.00	LP			



Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Poker Lake Unit 13 DTD
Well: #101H
Wellbore: Wellbore #1
Rig:
Design: PERMIT / 8:57, July 16 2019

PROJECT DETAILS: Eddy County, NM (Nad-27 / East Zone)
Coordinate System: US State Plane 1377 (East solution)
Datum: NAD 1983 (NAD83) CONUS
Elevation: Clark 1986
Zone: New Mexico East 3001
System: UTM
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.26°
Magnetic North: -0.26°
Magnetic Field
Strength: 47687.54 nT
Dip Angle: 59.98°
Date: 07/16/2019
Model: IGRF2015

WELL DETAILS: #101H

Est RKB = 23' @ 3483.00usft

	N/S	E/W	North	East	Latitude	Longitude
	0.00	0.00	440432.80	651848.00	32.208814	-103.842372

SECTION DETAILS

Sec	MD	Inc	Act	TVD	+N/-S	+E/-W	Dip	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	2348.28	5.18	48.39	2345.70	10.41	11.73	1.50	-19.37
4	10324.87	5.18	48.39	10281.63	480.05	551.78	0.00	-487.83
5	10584.56	0.00	179.77	10550.97	487.88	589.55	2.00	-485.61
6	10684.56	0.00	179.77	10650.97	487.88	589.55	0.00	-485.61
7	11184.56	40.00	179.77	11111.33	320.31	581.23	8.00	-323.05
8	11684.56	80.00	179.77	11318.00	-108.80	583.00	10.00	-110.88
9	21582.87	80.00	179.77	11318.00	-10008.83	602.87	0.00	10008.87
10	21712.74	80.00	179.77	11318.00	-10136.70	603.50	0.00	10136.04

DESIGN TARGET DETAILS

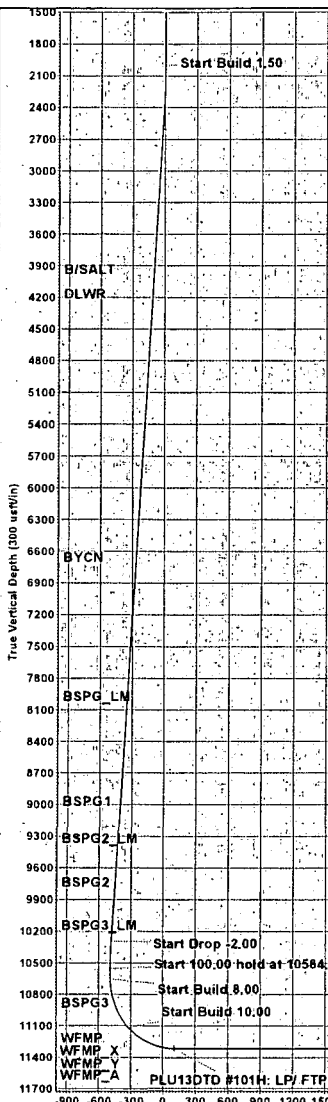
Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
PLU130TD #101H: SHL (220' FSL & 35' FWL)	0.00	0.00	0.00	440432.80	651848.00	32.208814	-103.842372
PLU130TD #101H: LP/FTP	11318.00	-108.80	583.00	440324.20	652411.80	32.208800	-103.840553
PLU130TD #101H: LTP	11318.00	-10008.83	602.50	430428.17	652451.10	32.182389	-103.840572
PLU130TD #101H: PBHL (200' FSL & 598' FWL)	11318.00	-10136.70	603.50	430298.16	652452.10	32.182041	-103.840571

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.592°
To convert a True Direction to a Grid Direction, Subtract 0.262°
To convert a Magnetic Direction to a True Direction, Add 6.554° East
Magnetic Declination: 6.554°
Grid Convergence: 0.262° West
Magnetic Dip Angle: 59.98°
Magnetic Field Strength: 47687.54 nT

FORMATION TOP DETAILS

TVD (ft)	Formation
448.00	RSLR
536.00	TSALT
3688.00	B/SALT
4123.00	DLWR
6613.00	BYCN
7928.00	BSPG LM
8928.00	BSPG1
9278.00	BSPG2 LM
9883.00	BSPG2
10098.00	BSPG3 LM
10833.00	BSPG3
11283.00	WFMP
11283.00	WFMP_X
11318.00	LP

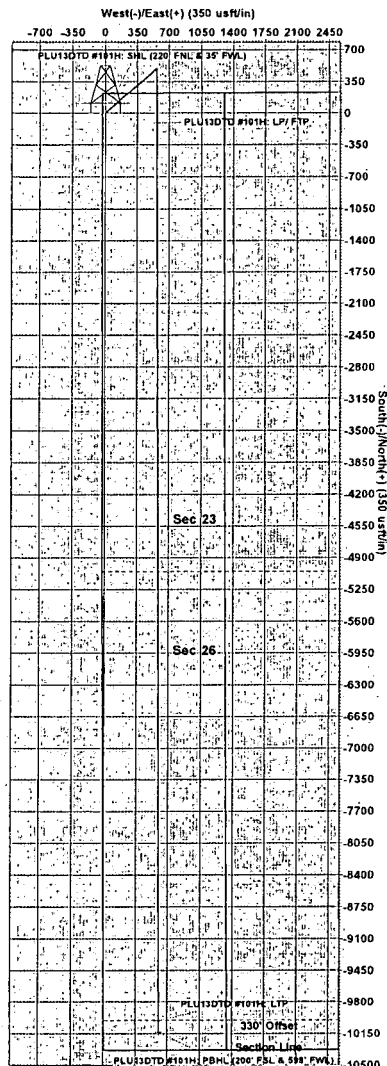


Vertical Section at 179.77° (300 usft/in)

PLU130TD #101H: PBHL (200' FSL & 598' FWL)

PLU130TD #101H: LTP

Disclaimer:
All Plan Details, boundary
lines and offset well
logs, and survey data is
provided by customer and
subject to customer
approval.



Plan: PERMIT (#101H/Wellbore #1)

Created By: Matthew May Date: 8:57, July 16 2019

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMNM-0030453
WELL NAME & NO.:	Poker Lake Unit 13 DTD 701H
SURFACE HOLE FOOTAGE:	0220' FNL & 0035' FWL
BOTTOM HOLE FOOTAGE	0200' FSL & 03598' FWL Sec. 25, T. 24 S., R 30 E.
LOCATION:	Section 24, T. 24 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.**