

Well Name: POKER LAKE UNIT 21 BD	Well Location: T25S / R30E / SEC 21 / SESW / 32.109464 / -103.889351	County or Parish/State: EDDY / NM
Well Number: 903H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0005039A, NMNM05039A	Unit or CA Name: DONOTUSE, POKER LAKE UNIT	Unit or CA Number: NMNM071016Z, NMNM71016X
US Well Number: 3001545703	Operator: XTO PERMIAN OPERATING LLC	

Notice Of Intent

Type of Submission: Notice Of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/18/2019

Disposition: Approved

Disposition Date: 01/14/2020

Remarks: XTO Permian Operation, LLC requests permission to make the following changes to the original APD: Change target formation from Corral Canyon; Bone Spring, South (oil) to Purple Sage; Wolfcamp (Gas). Change the casing/cement program per the attached procedure. XTO requests to utilize centralizers only in the curve after KOP and only a minimum of every other joint. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. Poker Lake Unit 21 BD 703H 30-015-45702 Poker Lake Unit 21 BD 903H 30-015-45703 Poker Lake Unit 21 BD 123H 30-015-45514 Poker Lake Unit 21 BD 124H 30-015-45515 Poker Lake Unit 21 BD 104H 30-015-45512 XTO requests to utilize centralizers only in the curve after KOP and only a minimum of every other joint.

NOI Attachments

Procedure Description

PLU 21 BD 903H ATTACHMENTS.PDF

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 30-015-45703	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 21 BD	
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	
		⁶ Well Number 903H
		⁹ Elevation 3,228'

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
N	21	25 S	30 E		395	SOUTH	1,689	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	33	25 S	30 E		200	SOUTH	1,650	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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.

GEODETTIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y = 403,784.5
X = 637,618.7
LAT. = 32.109340°N
LONG. = 103.888868°W

FIRST TAKE POINT
NAD 27 NME
Y = 403,059.0
X = 637,582.3
LAT. = 32.107346°N
LONG. = 103.888995°W

GEODETTIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y = 403,842.6
X = 678,803.7
LAT. = 32.109464°N
LONG. = 103.889351°W

FIRST TAKE POINT
NAD 83 NME
Y = 403,117.1
X = 678,767.4
LAT. = 32.107470°N
LONG. = 103.889478°W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y = 403,399.1 N, X = 638,605.9 E
B - Y = 403,385.9 N, X = 637,268.1 E
C - Y = 400,734.3 N, X = 638,623.5 E
D - Y = 400,723.6 N, X = 637,286.0 E
E - Y = 398,081.2 N, X = 638,640.8 E
F - Y = 398,066.7 N, X = 637,304.0 E
G - Y = 395,411.5 N, X = 638,625.4 E
H - Y = 395,401.5 N, X = 637,291.8 E
I - Y = 392,749.6 N, X = 638,610.0 E
J - Y = 392,739.7 N, X = 637,279.4 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y = 403,457.2 N, X = 679,791.0 E
B - Y = 403,444.0 N, X = 678,453.1 E
C - Y = 400,792.3 N, X = 679,808.6 E
D - Y = 400,781.6 N, X = 678,471.1 E
E - Y = 398,139.1 N, X = 679,826.0 E
F - Y = 398,124.6 N, X = 678,489.2 E
G - Y = 395,469.4 N, X = 679,810.7 E
H - Y = 395,459.4 N, X = 678,477.1 E
I - Y = 392,807.4 N, X = 679,795.4 E
J - Y = 392,797.5 N, X = 678,464.8 E

LAST TAKE POINT
NAD 27 NME
Y = 393,072.1
X = 637,600.0
LAT. = 32.079892°N
LONG. = 103.889071°W

LAST TAKE POINT
NAD 83 NME
Y = 393,129.9
X = 678,785.4
LAT. = 32.080017°N
LONG. = 103.889552°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y = 392,942.1
X = 637,599.6
LAT. = 32.079535°N
LONG. = 103.889074°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y = 392,999.9
X = 678,785.0
LAT. = 32.079659°N
LONG. = 103.889555°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.

Kelly Kardos
Signature _____ Date _____
Printed Name _____
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.

11-11-2019
Date of Survey _____
Signature and Seal of Professional Surveyor: _____
MARK DILLON HARP 23786
Certificate Number _____ LB/JC 2017071072

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

XTO Energy Inc.
Poker Lake Unit 21 BD 903H
Projected TD: 21746' MD / 11291' TVD
SHL: 395' FSL & 1689' FWL , Section 21, T25S, R30E
BHL: 200' FSL & 1650' FWL , Section 33, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1021'	Water
Top of Salt	1281'	Water
Base of Salt	3561'	Water
Delaware	3786'	Water
Bone Spring	7641'	Water
1st Bone Spring Ss	8561'	Water/Oil/Gas
2nd Bone Spring Ss	9361'	Water/Oil/Gas
3rd Bone Spring Ss	10511'	Water/Oil/Gas
Wolfcamp A	10986'	Water/Oil/Gas
Wolfcamp B	11451'	Water/Oil/Gas
Target/Land Curve	11291'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" inch casing @ 1200' (81' above the salt) and circulating cement back to surface. The 9-5/8" intermediate casing will be set at 10000' and bring TOC back 200' inside the previous shoe. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back 500' into the 9-5/8" 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' – 1200'	13 3/8"	68	STC	J-55	New	1.26	3.59	8.27
12-1/4"	0' – 10000'	9-5/8"	40	BTC	HCL-80	New	1.26	1.39	2.37
8-3/4 - 8-1/2"	0' – 21746'	5-1/2"	20	BTC	P-110	New	1.20	1.58	2.25

- XTO requests to not utilize centralizers in the curve and lateral
- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Permanent Wellhead – GE RSH Multibowl System

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

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13 3/8", 68 New J-55, STC casing to be set at +/- 1200'

Lead: 660 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

TOC @ Surface

Intermediate Casing: 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 10000'

ECP/DV Tool to be set at 4800'

1st Stage

Lead: 1400 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 460 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

2nd Stage

Lead: 980 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.88 ft³/sx, 10.13 gal/sx water)

Tail: 470 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

TOC @ 850'

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 21746'

Tail: 2290 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft³/sx, 8.38 gal/sx water)

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

5. Pressure Control Equipment

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M 3-Ram BOP. MASP should not exceed 4562 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nipping up on the 13 3/8", 5M bradenhead and flange, the BOP test will be limited to 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.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1200'	17-1/2"	FW / Native	8.4-8.8	35-40	NC
1200' - 10000'	12-1/4"	Brine / Cut Brine / WBM	8.8-9.8	30-32	NC
10000' to 21746'	8-3/4"	Cut Brine / WBM / OBM	12.0-13.0	32-36	NC

The necessary mud products for weight addition and fluid loss control will be on location at all times. Spud with fresh water/native mud and set 13 3/8" surface casing, isolating the fresh water aquifer. Drill out from under 13 3/8" surface casing with a brine/oil direct emulsion water-based mud. 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

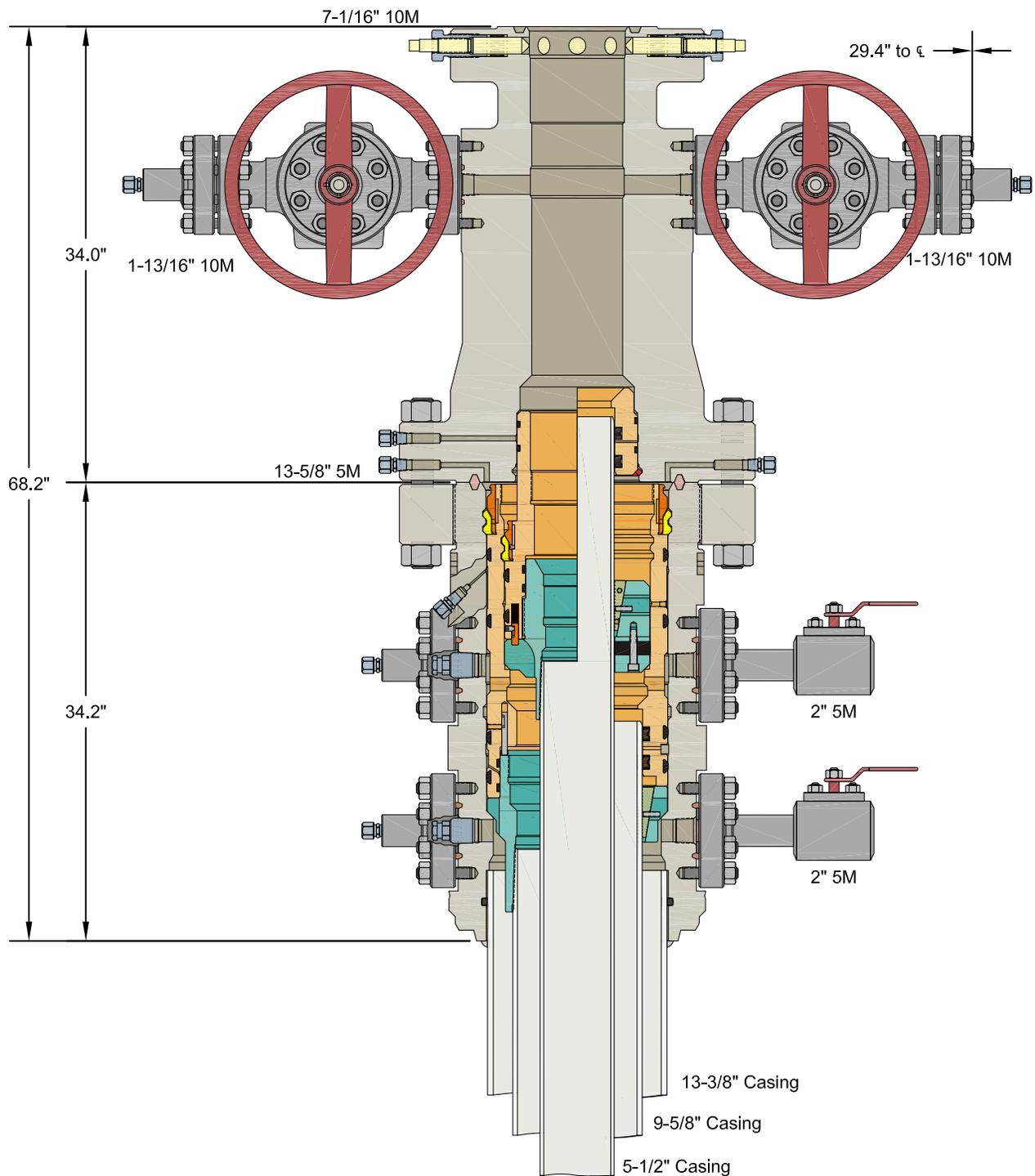
None Anticipated. BHT of 150 to 170 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 7046 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 45 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.



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

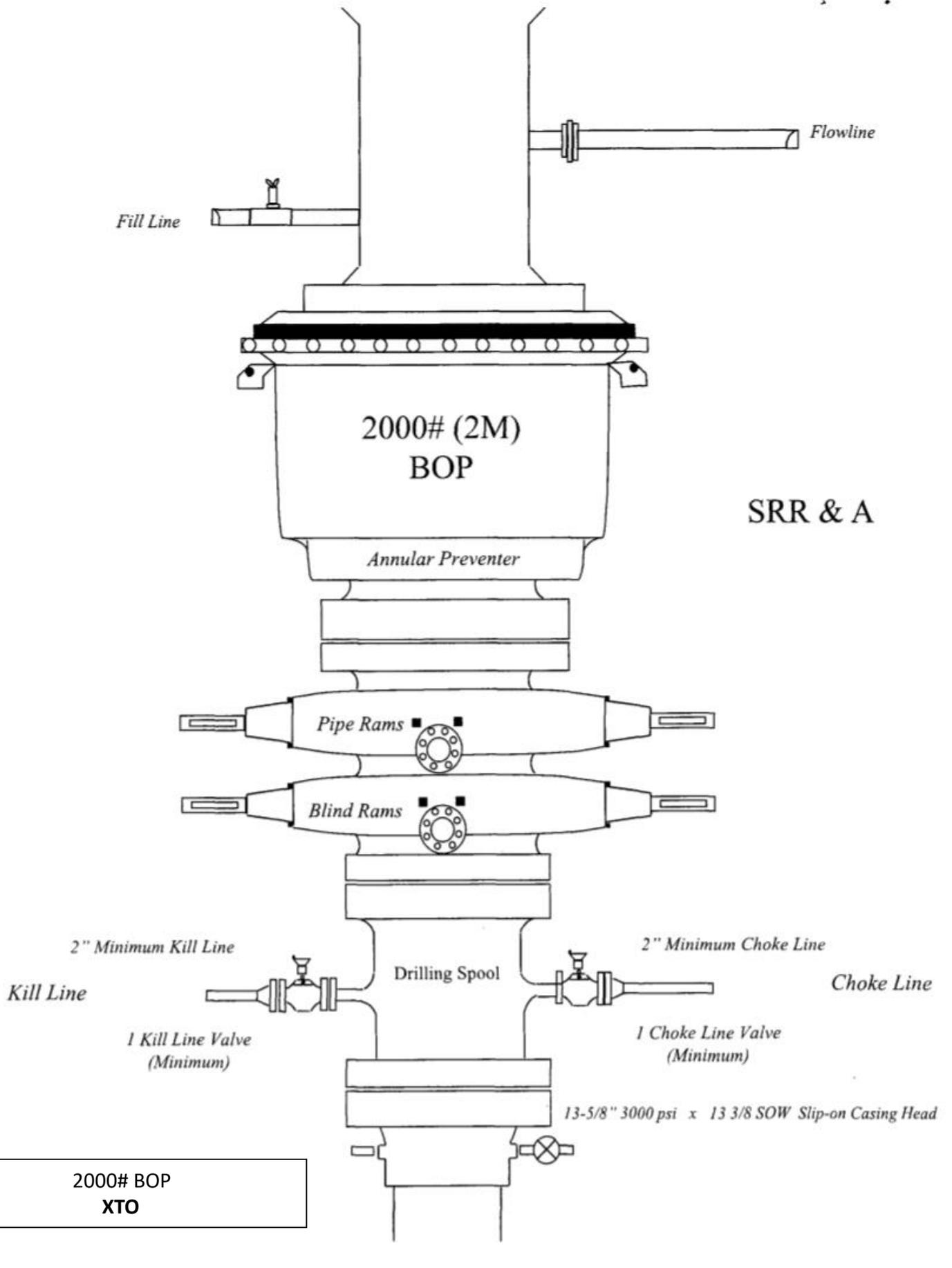
This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

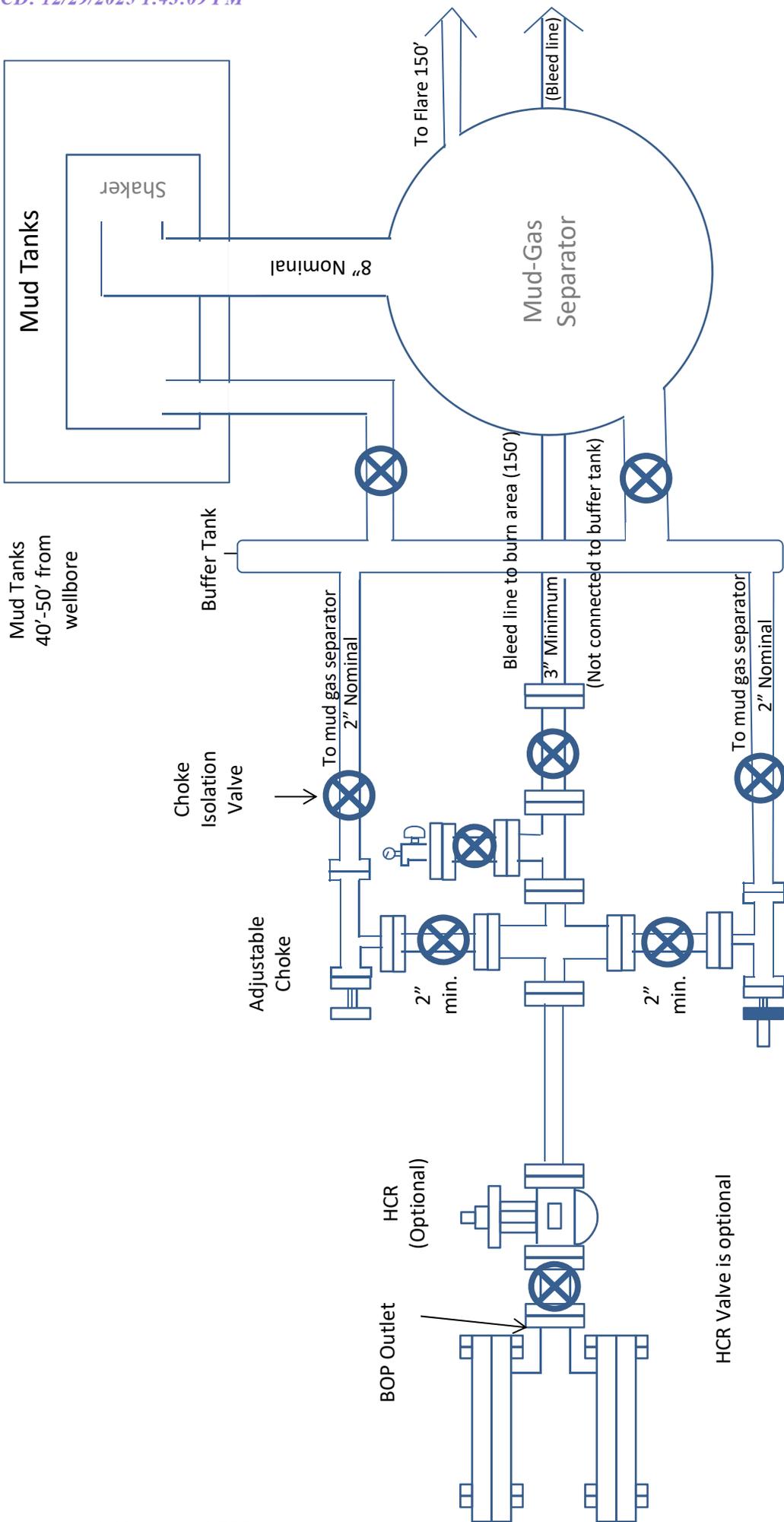
XTO ENERGY, INC.

13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
 Assembly, With T-EBS-F Tubing Head

DRAWN	VJK	16FEB17
APPRV	KN	16FEB17

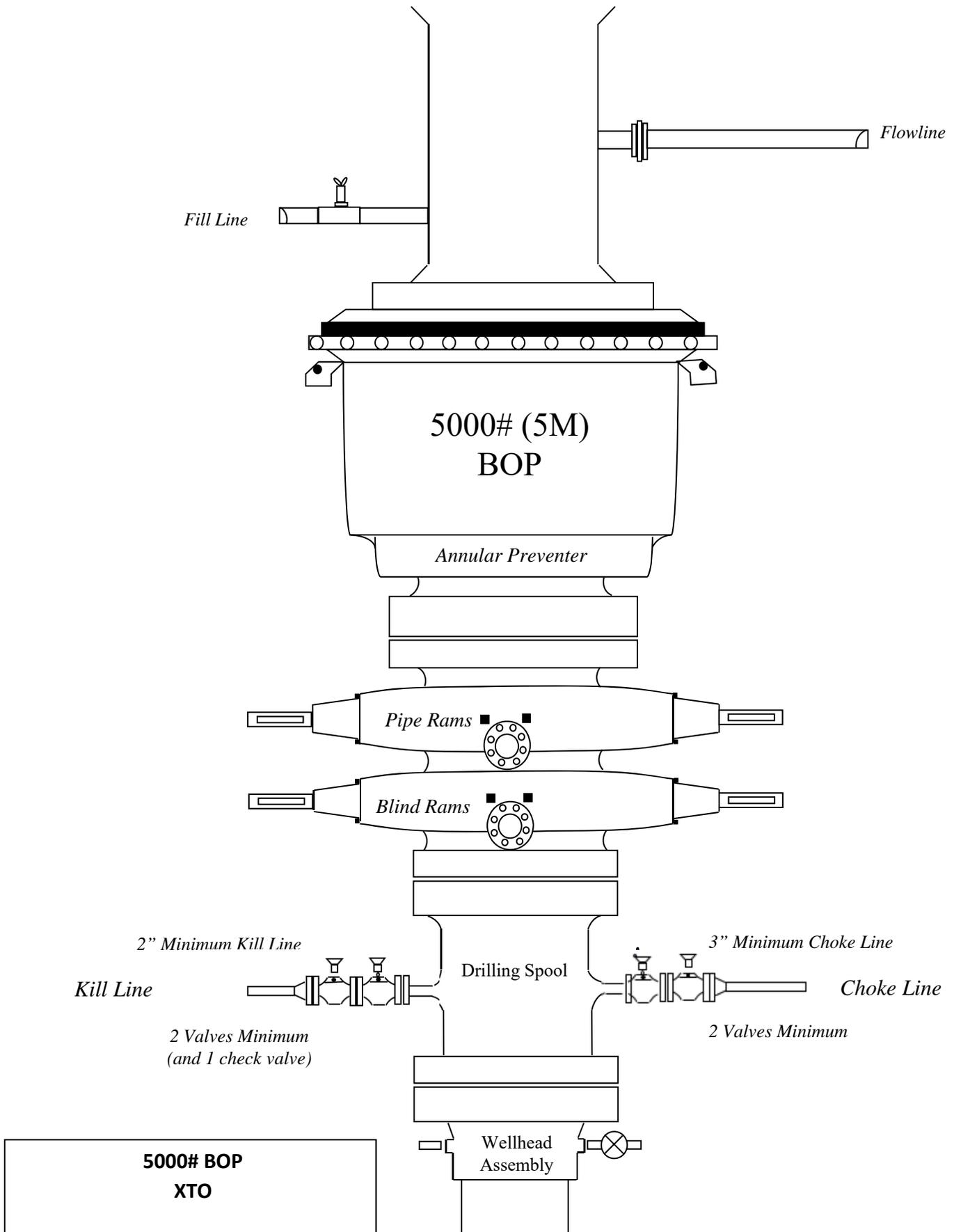
FOR REFERENCE ONLY
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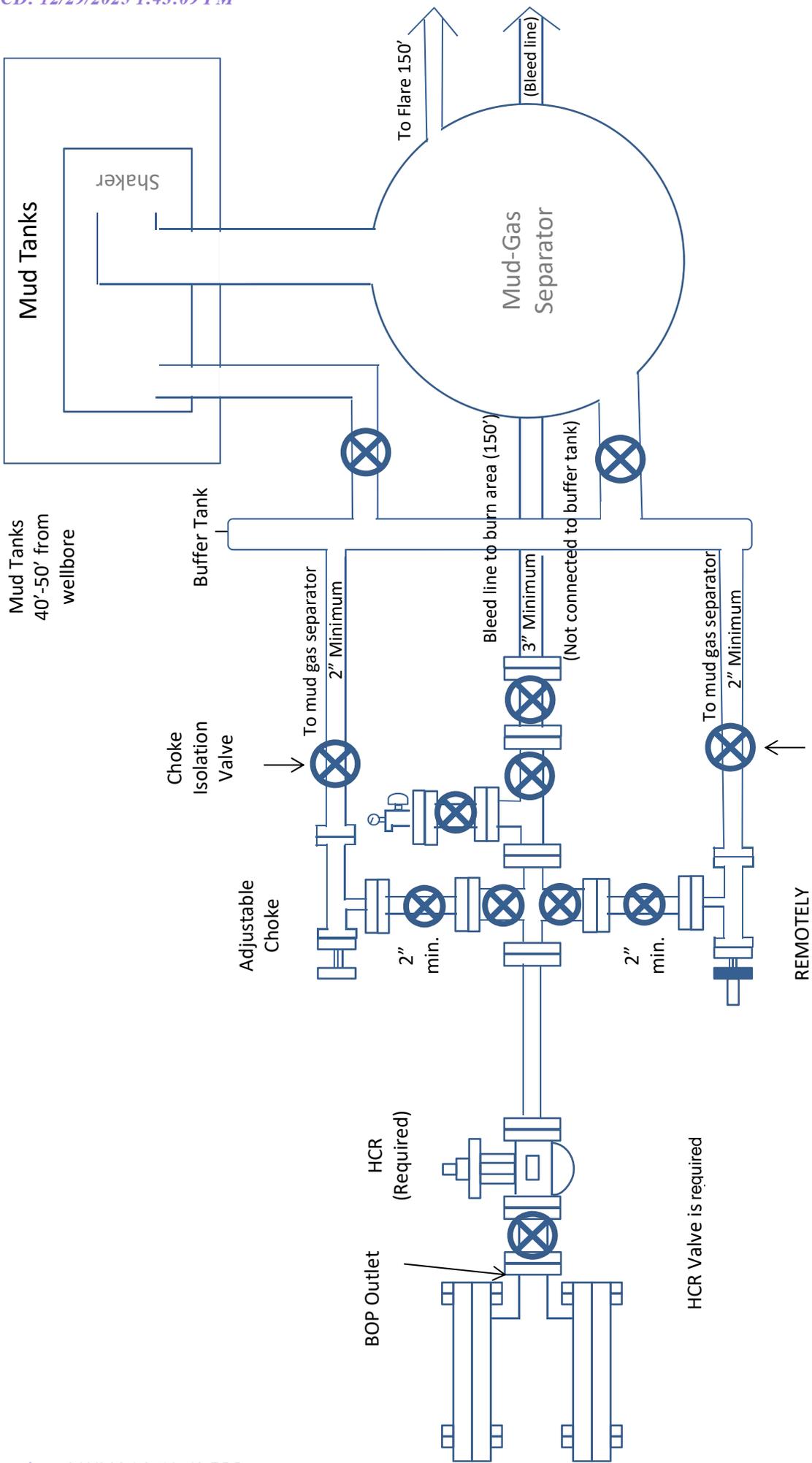




2M & 3M Choke Manifold Diagram
XTO

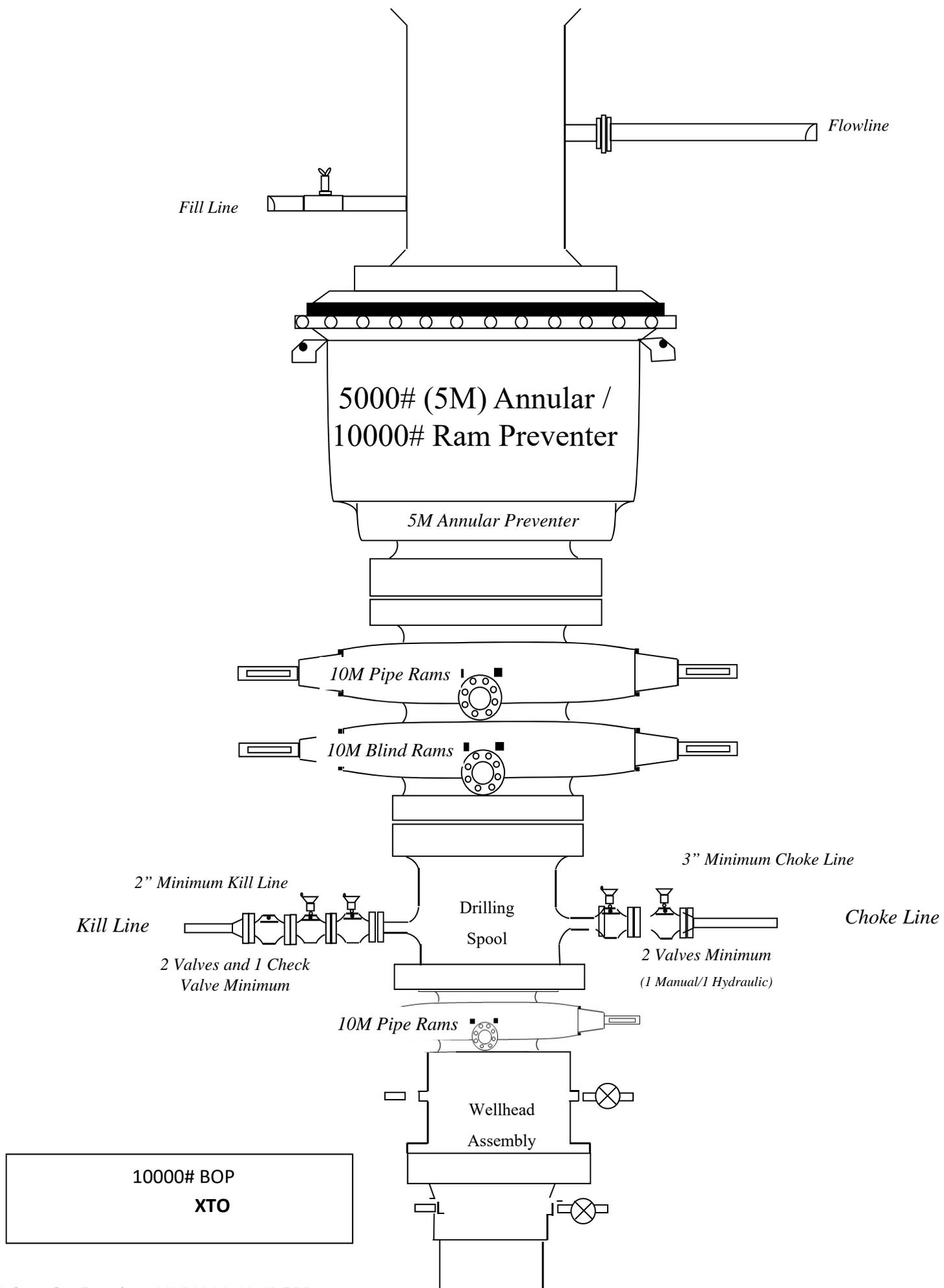
Drilling Operations Choke Manifold 2M & 3M Service

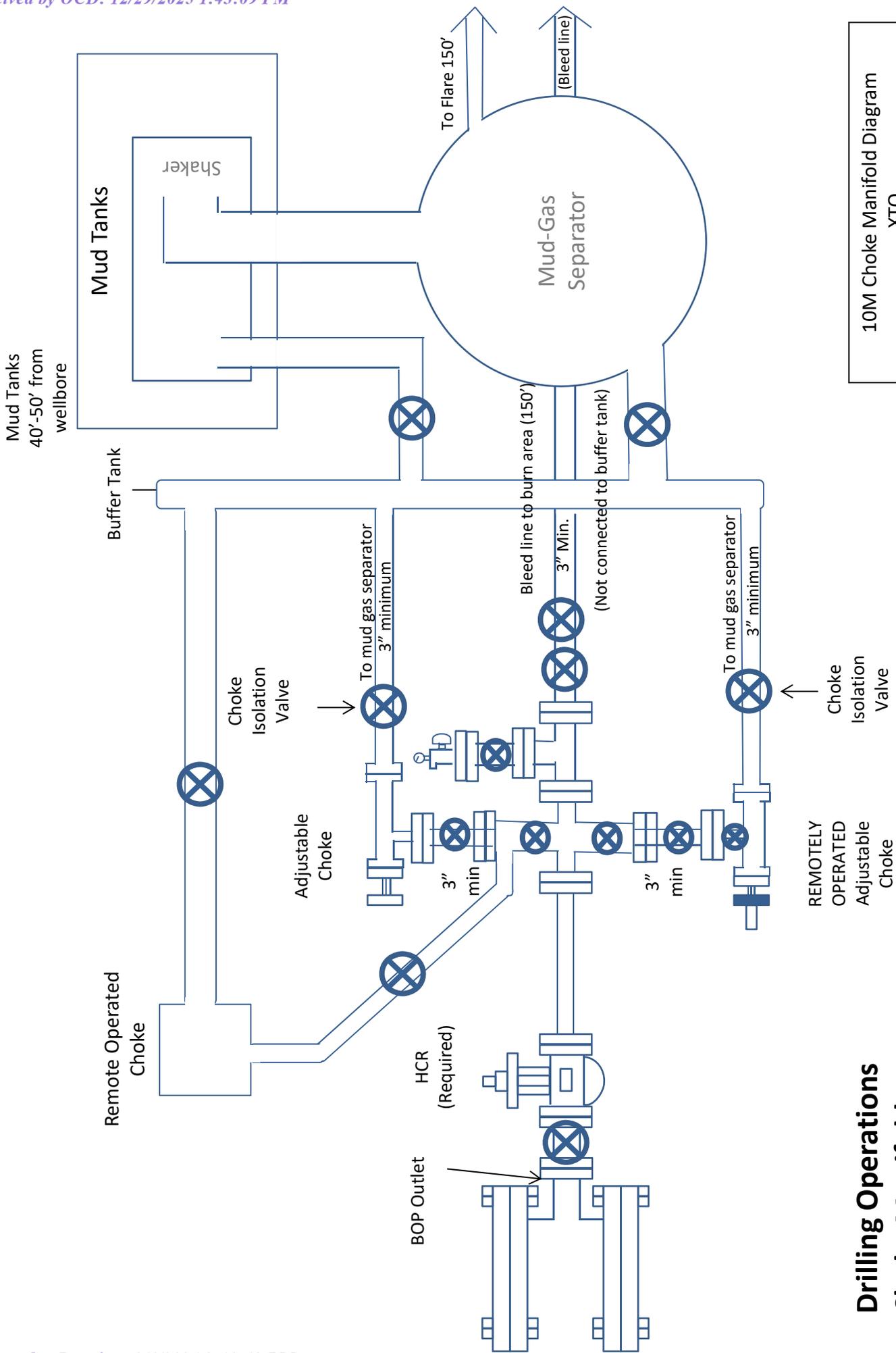




5M Choke Manifold Diagram XTO

Drilling Operations Choke Manifold 5M Service





10M Choke Manifold Diagram XTO

Drilling Operations Choke Manifold 10M Service

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

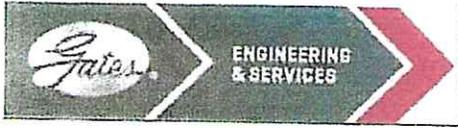
General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

- ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



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

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

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA

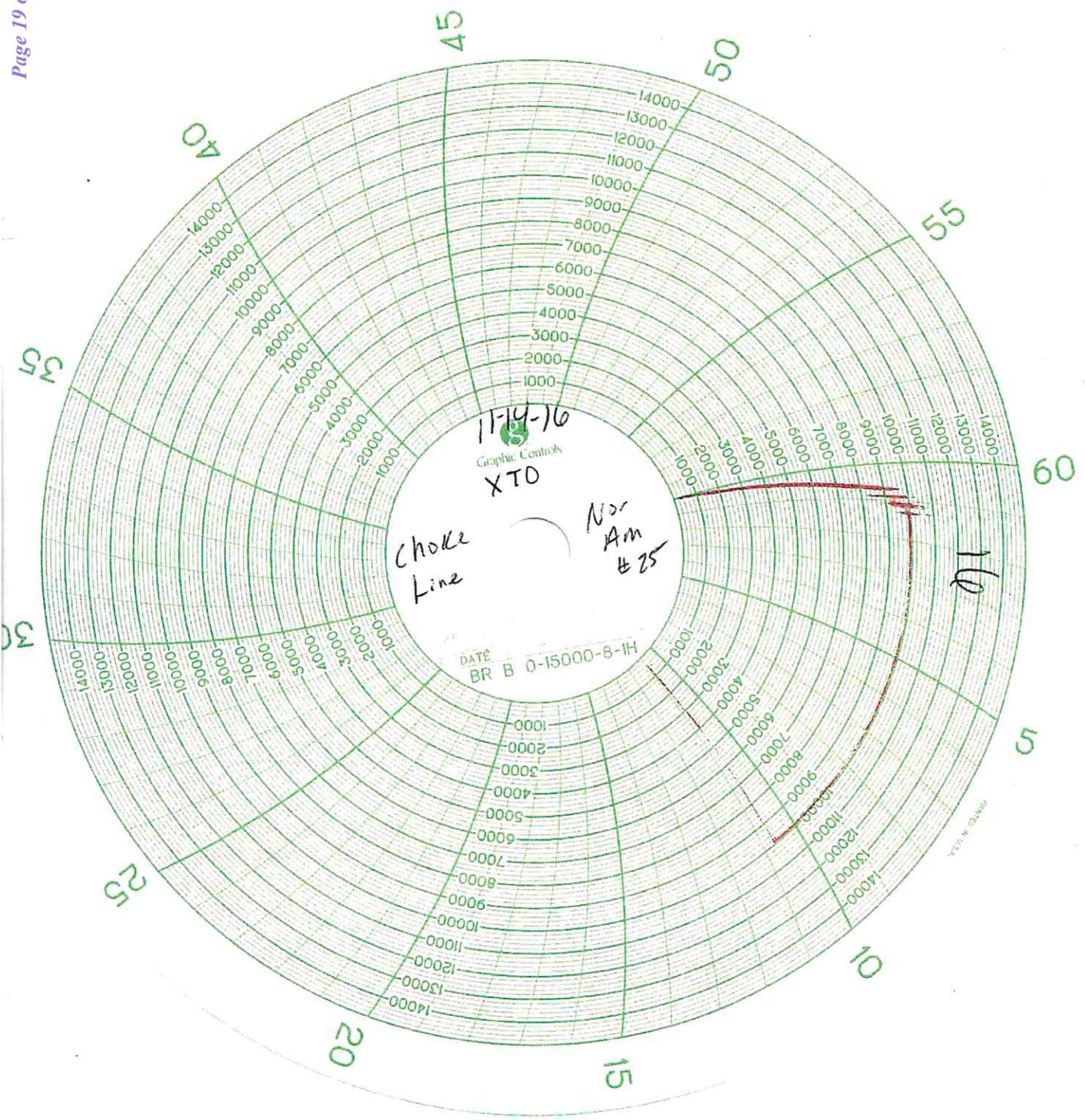
Product Description: FD3.042.0R41/16.5KFLGE/E LE

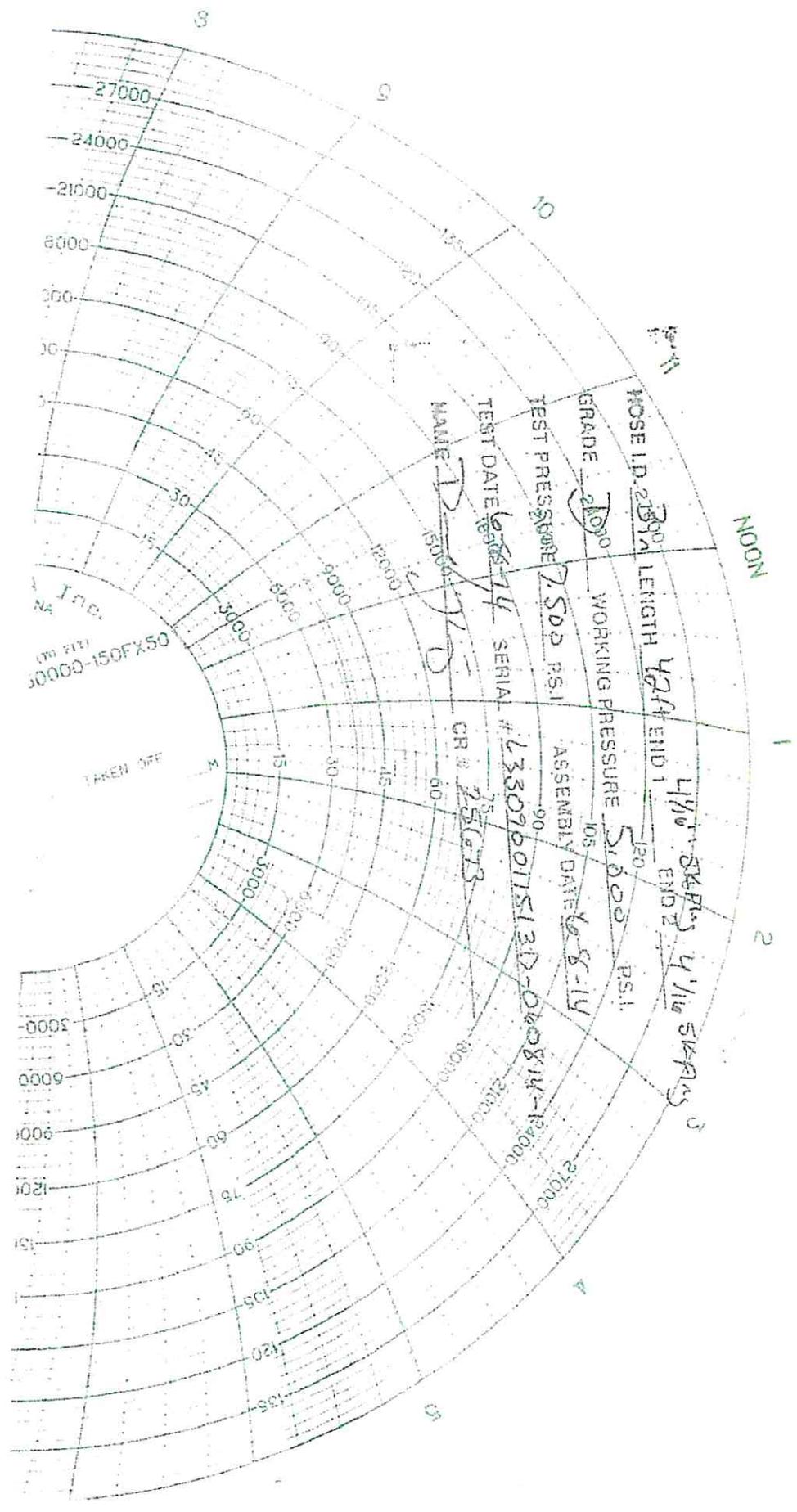
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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 :	<i>[Signature]</i>	Signature :	<i>[Signature]</i>

Form PTC - 01 Rev.0 2





XTO Energy

3228+33 @ 3261.00usft (X34)
NAD 1927 (NADCON CONUS)

Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Poker Lake Unit 21 BD
Well: 21 BD 903H
Wellbore: 903H Lateral
Design: Plan #1

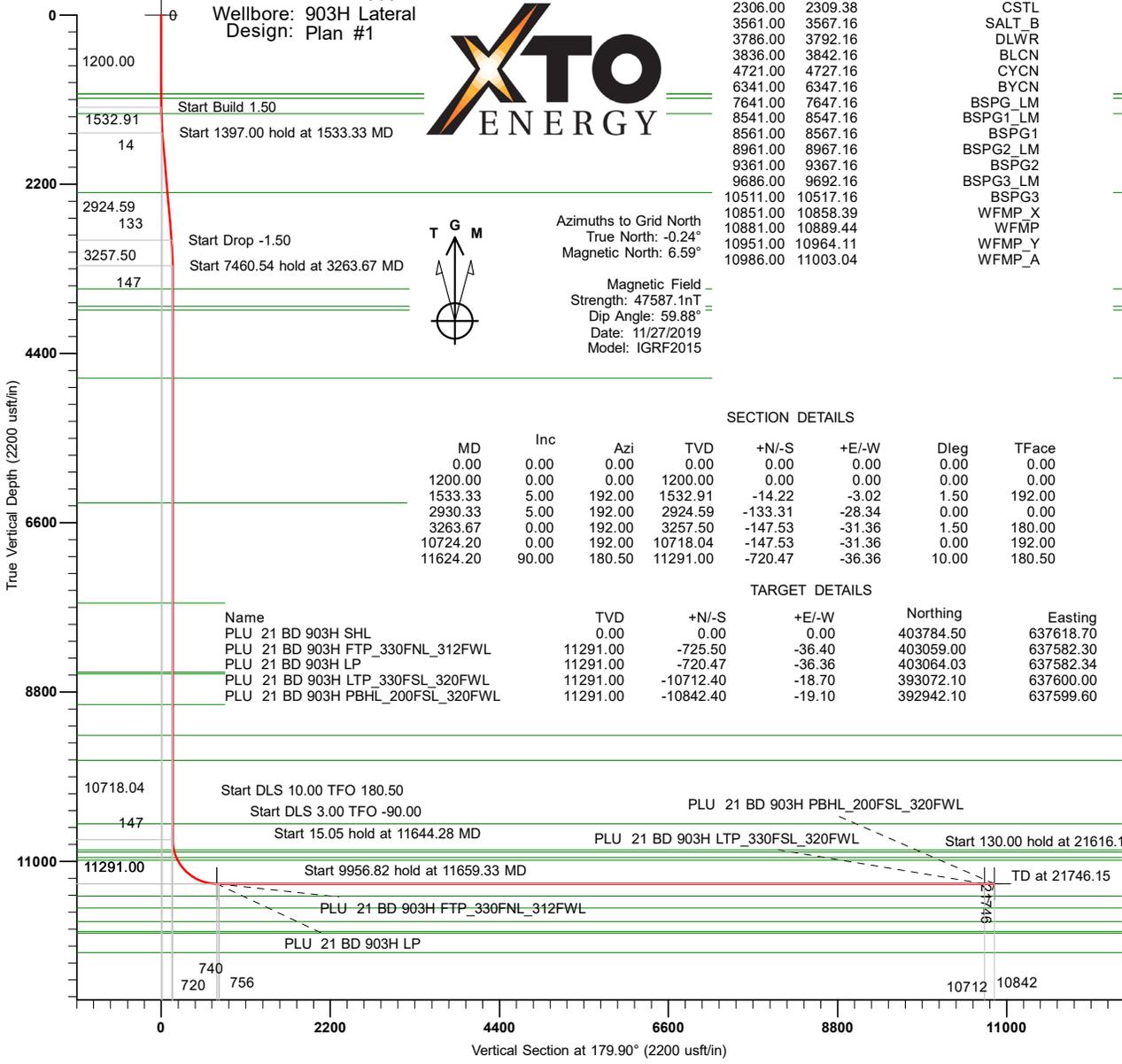
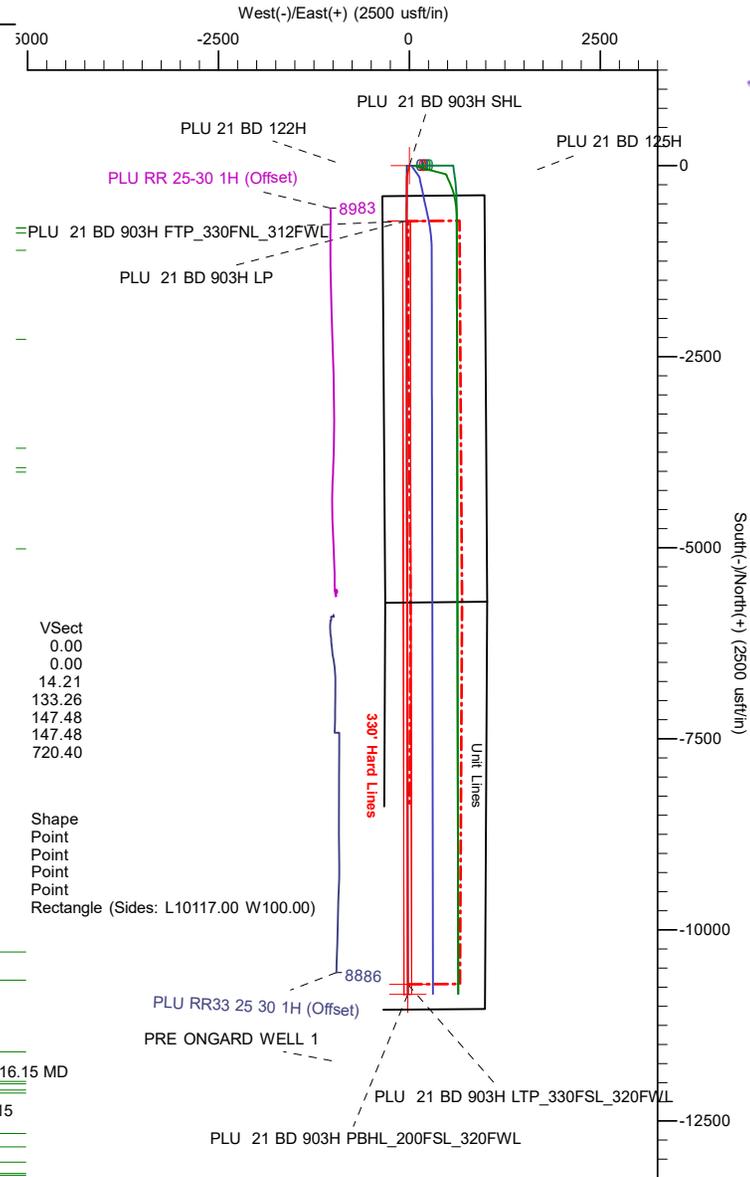


Azimuths to Grid North
True North: -0.24°
Magnetic North: 6.59°

Magnetic Field
Strength: 47587.1nT
Dip Angle: 59.88°
Date: 11/27/2019
Model: IGRF2015

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1021.00	1021.00	RSLR
1026.00	1026.00	T/SALT
1081.00	1081.00	Base RSLR Anhydrite
1281.00	1281.01	Salado
2306.00	2309.38	CSTL
3561.00	3567.16	SALT_B
3786.00	3792.16	DLWR
3836.00	3842.16	BLCN
4721.00	4727.16	CYCN
6341.00	6347.16	BYCN
7641.00	7647.16	BSPG_LM
8541.00	8547.16	BSPG1_LM
8561.00	8567.16	BSPG1
8961.00	8967.16	BSPG2_LM
9361.00	9367.16	BSPG2
9686.00	9692.16	BSPG3_LM
10511.00	10517.16	BSPG3
10851.00	10858.39	WFMP_X
10881.00	10889.44	WFMP
10951.00	10964.11	WFMP_Y
10986.00	11003.04	WFMP_A



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
1533.33	5.00	192.00	1532.91	-14.22	-3.02	1.50	192.00	14.21
2930.33	5.00	192.00	2924.59	-133.31	-28.34	0.00	0.00	133.26
3263.67	0.00	192.00	3257.50	-147.53	-31.36	1.50	180.00	147.48
10724.20	0.00	192.00	10718.04	-147.53	-31.36	0.00	192.00	147.48
11624.20	90.00	180.50	11291.00	-720.47	-36.36	10.00	180.50	720.40

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PLU 21 BD 903H SHL	0.00	0.00	0.00	403784.50	637618.70	Point
PLU 21 BD 903H FTP_330FNL_312FWL	11291.00	-725.50	-36.40	403059.00	637582.30	Point
PLU 21 BD 903H LP	11291.00	-720.47	-36.36	403064.03	637582.34	Point
PLU 21 BD 903H LTP_330FSL_320FWL	11291.00	-10712.40	-18.70	393072.10	637600.00	Point
PLU 21 BD 903H PBHL_200FSL_320FWL	11291.00	-10842.40	-19.10	392942.10	637599.60	Point
						Rectangle (Sides: L10117.00 W100.00)

To convert a Magnetic Direction to a Grid Direction, Add 6.59°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
Magnetic North is 6.59° East of Grid North (Magnetic Convergence)
Magnetic North is 6.83° East of True North (Magnetic Declination)

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Poker Lake Unit 21 BD
 Well: 21 BD 903H
 Wellbore: 903H Lateral
 Design: Plan #1

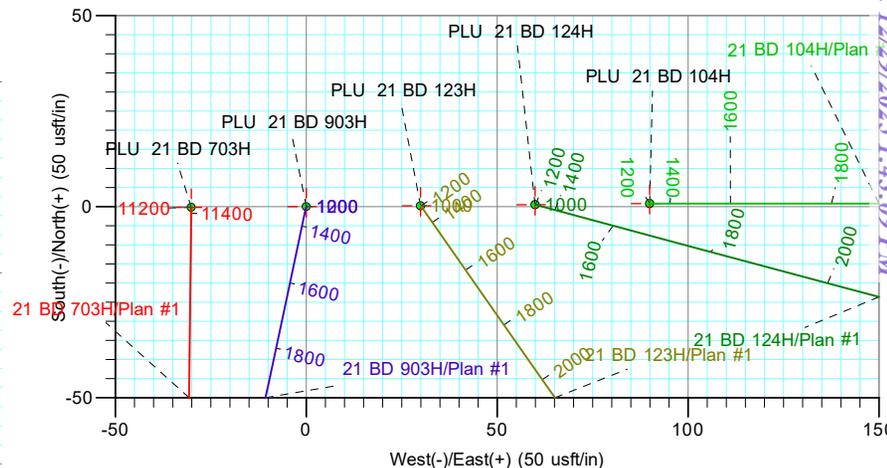
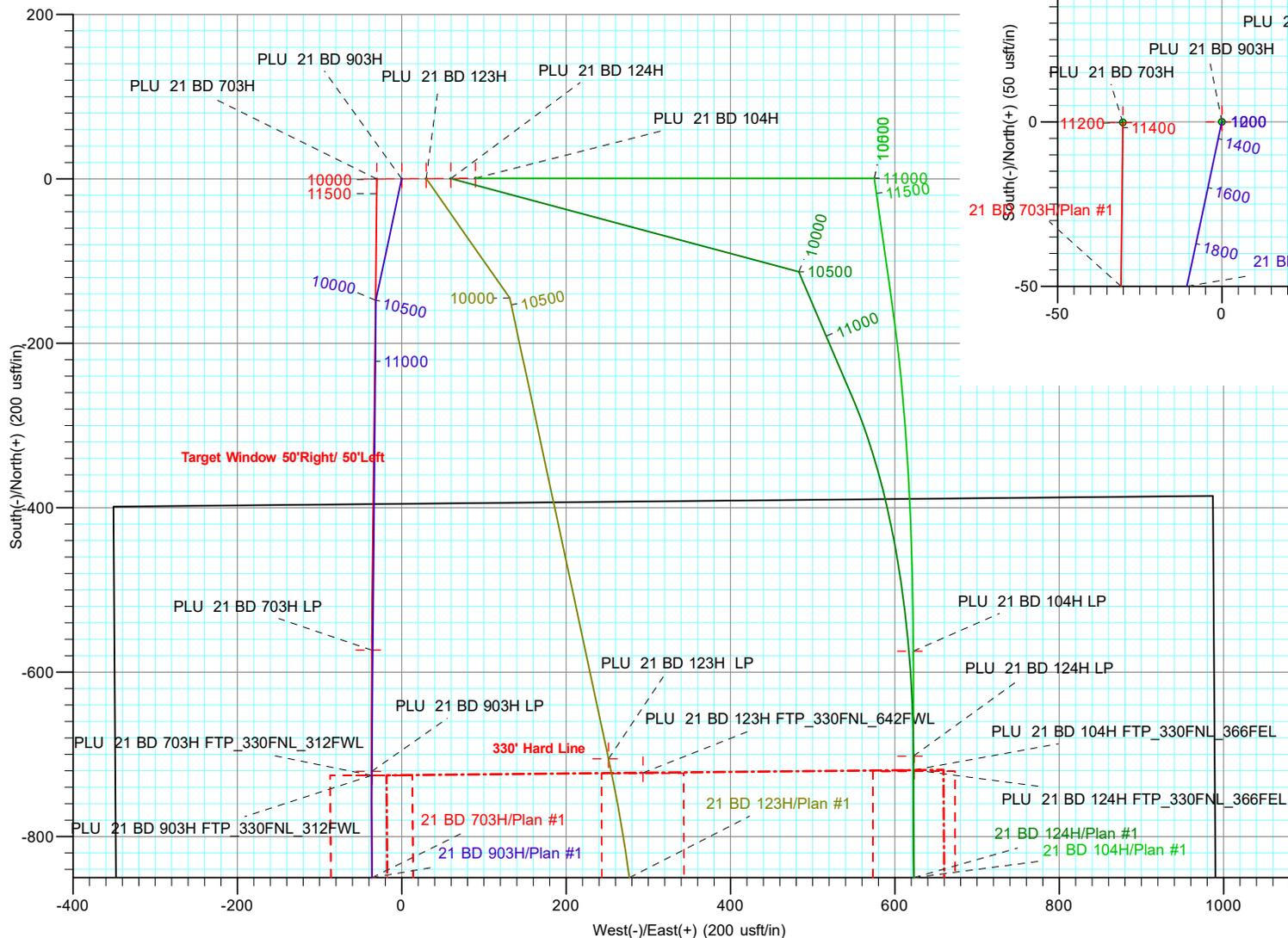


Azimuths to Grid North
 True North: -0.24°
 Magnetic North: 6.59°
 Magnetic Field
 Strength: 47587.1nT
 Dip Angle: 59.88°
 Date: 11/27/2019
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.59°
 Magnetic North is 6.59° East of Grid North (Magnetic Convergence)
 Magnetic North is 6.83° East of True North (Magnetic Declination)



3228+33 @ 3261.00usft (X34)
 NAD 1927 (NADCON CONUS)



Plan: Plan #1 (21 BD 903H/903H Lateral)
 Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 11:22, December 07 2019

PREDATOR DIRECTIONAL
 11323 MONARCHS WAY
 Montgomery, TX 77316



Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

Project	Eddy County, NM (NAD27) NMEZ Grid		
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 21 BD, 703H				
Site Position:	Northing:	403,784.30 usft	Latitude:	32.10933964	
From: Map	Easting:	637,588.60 usft	Longitude:	-103.88896536	
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.24 °

Well	21 BD 903H - Slot PLU 21 BD 903H					
Well Position	+N/-S	0.20 usft	Northing:	403,784.50 usft	Latitude:	32.10933985
	+E/-W	30.10 usft	Easting:	637,618.70 usft	Longitude:	-103.88886814
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,228.00 usft

Wellbore	903H Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/27/19	6.83	59.88	47,587.07833608

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.90

Plan Survey Tool Program	Date	12/07/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,724.48 Plan #1 (903H Lateral)	MWD OWSG MWD - Standard	
2	10,724.48	21,745.91 Plan #1 (903H Lateral)	MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,533.33	5.00	192.00	1,532.91	-14.22	-3.02	1.50	1.50	0.00	192.00	
2,930.33	5.00	192.00	2,924.59	-133.31	-28.34	0.00	0.00	0.00	0.00	
3,263.67	0.00	192.00	3,257.50	-147.53	-31.36	1.50	-1.50	0.00	180.00	
10,724.20	0.00	192.00	10,718.04	-147.53	-31.36	0.00	0.00	0.00	192.00	
11,624.20	90.00	180.50	11,291.00	-720.47	-36.36	10.00	10.00	0.00	180.50	
11,644.28	90.00	179.90	11,291.00	-740.55	-36.43	3.00	0.00	-3.00	-90.00	
11,659.33	90.00	179.90	11,291.00	-755.59	-36.40	0.00	0.00	0.00	0.00	PLU 21 BD 903H FTI
21,616.15	90.00	179.90	11,291.00	-10,712.40	-18.61	0.00	0.00	0.00	0.00	PLU 21 BD 903H LTF
21,746.15	90.00	179.90	11,291.00	-10,842.40	-18.37	0.00	0.00	0.00	0.00	PLU 21 BD 903H PB

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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	
1,021.00	0.00	0.00	1,021.00	0.00	0.00	0.00	0.00	0.00	0.00	
RSLR										
1,026.00	0.00	0.00	1,026.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/SALT										
1,081.00	0.00	0.00	1,081.00	0.00	0.00	0.00	0.00	0.00	0.00	
Base RSLR Anhydrite										
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	
1,281.01	1.22	192.00	1,281.00	-0.84	-0.18	0.84	1.50	1.50	0.00	
Salado										
1,300.00	1.50	192.00	1,299.99	-1.28	-0.27	1.28	1.50	1.50	0.00	
1,400.00	3.00	192.00	1,399.91	-5.12	-1.09	5.12	1.50	1.50	0.00	
1,500.00	4.50	192.00	1,499.69	-11.52	-2.45	11.51	1.50	1.50	0.00	
1,533.33	5.00	192.00	1,532.91	-14.22	-3.02	14.21	1.50	1.50	0.00	
1,600.00	5.00	192.00	1,599.32	-19.90	-4.23	19.89	0.00	0.00	0.00	
1,700.00	5.00	192.00	1,698.94	-28.43	-6.04	28.42	0.00	0.00	0.00	
1,800.00	5.00	192.00	1,798.56	-36.95	-7.85	36.94	0.00	0.00	0.00	
1,900.00	5.00	192.00	1,898.18	-45.48	-9.67	45.46	0.00	0.00	0.00	
2,000.00	5.00	192.00	1,997.80	-54.00	-11.48	53.98	0.00	0.00	0.00	
2,100.00	5.00	192.00	2,097.42	-62.53	-13.29	62.50	0.00	0.00	0.00	
2,200.00	5.00	192.00	2,197.04	-71.05	-15.10	71.03	0.00	0.00	0.00	
2,300.00	5.00	192.00	2,296.66	-79.58	-16.91	79.55	0.00	0.00	0.00	
2,309.38	5.00	192.00	2,306.00	-80.38	-17.08	80.35	0.00	0.00	0.00	
CSTL										
2,400.00	5.00	192.00	2,396.28	-88.10	-18.73	88.07	0.00	0.00	0.00	
2,500.00	5.00	192.00	2,495.90	-96.63	-20.54	96.59	0.00	0.00	0.00	
2,600.00	5.00	192.00	2,595.52	-105.15	-22.35	105.11	0.00	0.00	0.00	
2,700.00	5.00	192.00	2,695.14	-113.68	-24.16	113.63	0.00	0.00	0.00	
2,800.00	5.00	192.00	2,794.76	-122.20	-25.97	122.16	0.00	0.00	0.00	
2,900.00	5.00	192.00	2,894.38	-130.73	-27.79	130.68	0.00	0.00	0.00	
2,930.33	5.00	192.00	2,924.59	-133.31	-28.34	133.26	0.00	0.00	0.00	
3,000.00	3.95	192.00	2,994.05	-138.63	-29.47	138.58	1.50	-1.50	0.00	
3,100.00	2.45	192.00	3,093.89	-144.10	-30.63	144.05	1.50	-1.50	0.00	
3,200.00	0.95	192.00	3,193.84	-147.01	-31.25	146.96	1.50	-1.50	0.00	
3,263.67	0.00	192.00	3,257.50	-147.53	-31.36	147.48	1.50	-1.50	0.00	
3,300.00	0.00	192.00	3,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
3,400.00	0.00	192.00	3,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
3,500.00	0.00	192.00	3,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
3,567.16	0.00	0.00	3,561.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
SALT_B										
3,600.00	0.00	192.00	3,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
3,700.00	0.00	192.00	3,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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)	
3,792.16	0.00	0.00	3,786.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
DLWR										
3,800.00	0.00	192.00	3,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
3,842.16	0.00	192.00	3,836.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BLCN										
3,900.00	0.00	192.00	3,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,000.00	0.00	192.00	3,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,100.00	0.00	192.00	4,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,200.00	0.00	192.00	4,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,300.00	0.00	192.00	4,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,400.00	0.00	192.00	4,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,500.00	0.00	192.00	4,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,600.00	0.00	192.00	4,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,700.00	0.00	192.00	4,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,727.16	0.00	0.00	4,721.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
CYCN										
4,800.00	0.00	192.00	4,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
4,900.00	0.00	192.00	4,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,000.00	0.00	192.00	4,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,100.00	0.00	192.00	5,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,200.00	0.00	192.00	5,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,300.00	0.00	192.00	5,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,400.00	0.00	192.00	5,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,500.00	0.00	192.00	5,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,600.00	0.00	192.00	5,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,700.00	0.00	192.00	5,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,800.00	0.00	192.00	5,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
5,900.00	0.00	192.00	5,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,000.00	0.00	192.00	5,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,100.00	0.00	192.00	6,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,200.00	0.00	192.00	6,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,300.00	0.00	192.00	6,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,347.16	0.00	192.00	6,341.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BYCN										
6,400.00	0.00	192.00	6,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,500.00	0.00	192.00	6,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,600.00	0.00	192.00	6,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,700.00	0.00	192.00	6,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,800.00	0.00	192.00	6,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
6,900.00	0.00	192.00	6,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,000.00	0.00	192.00	6,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,100.00	0.00	192.00	7,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,200.00	0.00	192.00	7,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,300.00	0.00	192.00	7,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,400.00	0.00	192.00	7,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,500.00	0.00	192.00	7,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,600.00	0.00	192.00	7,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,647.16	0.00	0.00	7,641.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG_LM										
7,700.00	0.00	192.00	7,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,800.00	0.00	192.00	7,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
7,900.00	0.00	192.00	7,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,000.00	0.00	192.00	7,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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)	
8,100.00	0.00	192.00	8,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,200.00	0.00	192.00	8,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,300.00	0.00	192.00	8,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,400.00	0.00	192.00	8,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,500.00	0.00	192.00	8,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,547.16	0.00	0.00	8,541.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG1_LM										
8,567.16	0.00	0.00	8,561.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG1										
8,600.00	0.00	192.00	8,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,700.00	0.00	192.00	8,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,800.00	0.00	192.00	8,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,900.00	0.00	192.00	8,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
8,967.16	0.00	0.00	8,961.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG2_LM										
9,000.00	0.00	192.00	8,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,100.00	0.00	192.00	9,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,200.00	0.00	192.00	9,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,300.00	0.00	192.00	9,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,367.16	0.00	0.00	9,361.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG2										
9,400.00	0.00	192.00	9,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,500.00	0.00	192.00	9,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,600.00	0.00	192.00	9,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,692.16	0.00	0.00	9,686.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG3_LM										
9,700.00	0.00	192.00	9,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,800.00	0.00	192.00	9,793.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
9,900.00	0.00	192.00	9,893.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,000.00	0.00	192.00	9,993.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,100.00	0.00	192.00	10,093.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,200.00	0.00	192.00	10,193.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,300.00	0.00	192.00	10,293.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,400.00	0.00	192.00	10,393.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,500.00	0.00	192.00	10,493.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,517.16	0.00	192.00	10,511.00	-147.53	-31.36	147.48	0.00	0.00	0.00	
BSPG3										
10,600.00	0.00	192.00	10,593.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,700.00	0.00	192.00	10,693.84	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,724.20	0.00	192.00	10,718.04	-147.53	-31.36	147.48	0.00	0.00	0.00	
10,750.00	2.58	180.50	10,743.83	-148.11	-31.36	148.06	10.00	10.00	-44.58	
10,800.00	7.58	180.50	10,793.62	-152.54	-31.40	152.48	10.00	10.00	0.00	
10,850.00	12.58	180.50	10,842.83	-161.29	-31.48	161.23	10.00	10.00	0.00	
10,858.39	13.42	180.50	10,851.00	-163.17	-31.50	163.12	10.00	10.00	0.00	
WFMP_X										
10,889.44	16.52	180.50	10,881.00	-171.19	-31.57	171.14	10.00	10.00	0.00	
WFMP										
10,900.00	17.58	180.50	10,891.09	-174.29	-31.59	174.23	10.00	10.00	0.00	
10,950.00	22.58	180.50	10,938.04	-191.45	-31.74	191.39	10.00	10.00	0.00	
10,964.11	23.99	180.50	10,951.00	-197.03	-31.79	196.97	10.00	10.00	0.00	
WFMP_Y										
11,000.00	27.58	180.50	10,983.31	-212.64	-31.93	212.58	10.00	10.00	0.00	
11,003.04	27.88	180.50	10,986.00	-214.05	-31.94	213.99	10.00	10.00	0.00	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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)
WFMP_A									
11,050.00	32.58	180.50	11,026.56	-237.69	-32.15	237.63	10.00	10.00	0.00
11,100.00	37.58	180.50	11,067.47	-266.41	-32.40	266.36	10.00	10.00	0.00
11,150.00	42.58	180.50	11,105.71	-298.59	-32.68	298.54	10.00	10.00	0.00
11,200.00	47.58	180.50	11,141.01	-333.99	-32.99	333.93	10.00	10.00	0.00
11,250.00	52.58	180.50	11,173.08	-372.32	-33.32	372.26	10.00	10.00	0.00
11,300.00	57.58	180.50	11,201.70	-413.30	-33.68	413.24	10.00	10.00	0.00
11,350.00	62.58	180.50	11,226.63	-456.62	-34.06	456.56	10.00	10.00	0.00
11,400.00	67.58	180.50	11,247.69	-501.95	-34.45	501.89	10.00	10.00	0.00
11,450.00	72.58	180.50	11,264.72	-548.94	-34.86	548.88	10.00	10.00	0.00
11,500.00	77.58	180.50	11,277.59	-597.24	-35.28	597.18	10.00	10.00	0.00
11,550.00	82.58	180.50	11,286.20	-646.48	-35.71	646.41	10.00	10.00	0.00
11,600.00	87.58	180.50	11,290.49	-696.27	-36.15	696.21	10.00	10.00	0.00
11,624.20	90.00	180.50	11,291.00	-720.47	-36.36	720.40	10.00	10.00	0.00
11,644.28	90.00	179.90	11,291.00	-740.55	-36.43	740.48	3.00	0.00	-3.00
11,659.33	90.00	179.90	11,291.00	-755.59	-36.40	755.53	0.00	0.00	0.00
11,700.00	90.00	179.90	11,291.00	-796.27	-36.33	796.20	0.00	0.00	0.00
11,800.00	90.00	179.90	11,291.00	-896.27	-36.15	896.20	0.00	0.00	0.00
11,900.00	90.00	179.90	11,291.00	-996.27	-35.97	996.20	0.00	0.00	0.00
12,000.00	90.00	179.90	11,291.00	-1,096.26	-35.79	1,096.20	0.00	0.00	0.00
12,100.00	90.00	179.90	11,291.00	-1,196.26	-35.61	1,196.20	0.00	0.00	0.00
12,200.00	90.00	179.90	11,291.00	-1,296.26	-35.44	1,296.20	0.00	0.00	0.00
12,300.00	90.00	179.90	11,291.00	-1,396.26	-35.26	1,396.20	0.00	0.00	0.00
12,400.00	90.00	179.90	11,291.00	-1,496.26	-35.08	1,496.20	0.00	0.00	0.00
12,500.00	90.00	179.90	11,291.00	-1,596.26	-34.90	1,596.20	0.00	0.00	0.00
12,600.00	90.00	179.90	11,291.00	-1,696.26	-34.72	1,696.20	0.00	0.00	0.00
12,700.00	90.00	179.90	11,291.00	-1,796.26	-34.54	1,796.20	0.00	0.00	0.00
12,800.00	90.00	179.90	11,291.00	-1,896.26	-34.36	1,896.20	0.00	0.00	0.00
12,900.00	90.00	179.90	11,291.00	-1,996.26	-34.18	1,996.20	0.00	0.00	0.00
13,000.00	90.00	179.90	11,291.00	-2,096.26	-34.01	2,096.20	0.00	0.00	0.00
13,100.00	90.00	179.90	11,291.00	-2,196.26	-33.83	2,196.20	0.00	0.00	0.00
13,200.00	90.00	179.90	11,291.00	-2,296.26	-33.65	2,296.20	0.00	0.00	0.00
13,300.00	90.00	179.90	11,291.00	-2,396.26	-33.47	2,396.20	0.00	0.00	0.00
13,400.00	90.00	179.90	11,291.00	-2,496.26	-33.29	2,496.20	0.00	0.00	0.00
13,500.00	90.00	179.90	11,291.00	-2,596.26	-33.11	2,596.20	0.00	0.00	0.00
13,600.00	90.00	179.90	11,291.00	-2,696.26	-32.93	2,696.20	0.00	0.00	0.00
13,700.00	90.00	179.90	11,291.00	-2,796.26	-32.75	2,796.20	0.00	0.00	0.00
13,800.00	90.00	179.90	11,291.00	-2,896.26	-32.58	2,896.20	0.00	0.00	0.00
13,900.00	90.00	179.90	11,291.00	-2,996.26	-32.40	2,996.20	0.00	0.00	0.00
14,000.00	90.00	179.90	11,291.00	-3,096.26	-32.22	3,096.20	0.00	0.00	0.00
14,100.00	90.00	179.90	11,291.00	-3,196.26	-32.04	3,196.20	0.00	0.00	0.00
14,200.00	90.00	179.90	11,291.00	-3,296.26	-31.86	3,296.20	0.00	0.00	0.00
14,300.00	90.00	179.90	11,291.00	-3,396.26	-31.68	3,396.20	0.00	0.00	0.00
14,400.00	90.00	179.90	11,291.00	-3,496.26	-31.50	3,496.20	0.00	0.00	0.00
14,500.00	90.00	179.90	11,291.00	-3,596.26	-31.32	3,596.20	0.00	0.00	0.00
14,600.00	90.00	179.90	11,291.00	-3,696.26	-31.15	3,696.20	0.00	0.00	0.00
14,700.00	90.00	179.90	11,291.00	-3,796.26	-30.97	3,796.20	0.00	0.00	0.00
14,800.00	90.00	179.90	11,291.00	-3,896.26	-30.79	3,896.20	0.00	0.00	0.00
14,900.00	90.00	179.90	11,291.00	-3,996.26	-30.61	3,996.20	0.00	0.00	0.00
15,000.00	90.00	179.90	11,291.00	-4,096.26	-30.43	4,096.20	0.00	0.00	0.00
15,100.00	90.00	179.90	11,291.00	-4,196.26	-30.25	4,196.20	0.00	0.00	0.00
15,200.00	90.00	179.90	11,291.00	-4,296.26	-30.07	4,296.20	0.00	0.00	0.00
15,300.00	90.00	179.90	11,291.00	-4,396.26	-29.89	4,396.20	0.00	0.00	0.00

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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)	
15,400.00	90.00	179.90	11,291.00	-4,496.26	-29.72	4,496.20	0.00	0.00	0.00	
15,500.00	90.00	179.90	11,291.00	-4,596.26	-29.54	4,596.20	0.00	0.00	0.00	
15,600.00	90.00	179.90	11,291.00	-4,696.26	-29.36	4,696.20	0.00	0.00	0.00	
15,700.00	90.00	179.90	11,291.00	-4,796.26	-29.18	4,796.20	0.00	0.00	0.00	
15,800.00	90.00	179.90	11,291.00	-4,896.26	-29.00	4,896.20	0.00	0.00	0.00	
15,900.00	90.00	179.90	11,291.00	-4,996.26	-28.82	4,996.20	0.00	0.00	0.00	
16,000.00	90.00	179.90	11,291.00	-5,096.26	-28.64	5,096.20	0.00	0.00	0.00	
16,100.00	90.00	179.90	11,291.00	-5,196.26	-28.46	5,196.20	0.00	0.00	0.00	
16,200.00	90.00	179.90	11,291.00	-5,296.26	-28.29	5,296.20	0.00	0.00	0.00	
16,300.00	90.00	179.90	11,291.00	-5,396.26	-28.11	5,396.20	0.00	0.00	0.00	
16,400.00	90.00	179.90	11,291.00	-5,496.26	-27.93	5,496.20	0.00	0.00	0.00	
16,500.00	90.00	179.90	11,291.00	-5,596.26	-27.75	5,596.20	0.00	0.00	0.00	
16,600.00	90.00	179.90	11,291.00	-5,696.26	-27.57	5,696.20	0.00	0.00	0.00	
16,700.00	90.00	179.90	11,291.00	-5,796.26	-27.39	5,796.20	0.00	0.00	0.00	
16,800.00	90.00	179.90	11,291.00	-5,896.26	-27.21	5,896.20	0.00	0.00	0.00	
16,900.00	90.00	179.90	11,291.00	-5,996.26	-27.04	5,996.20	0.00	0.00	0.00	
17,000.00	90.00	179.90	11,291.00	-6,096.26	-26.86	6,096.20	0.00	0.00	0.00	
17,100.00	90.00	179.90	11,291.00	-6,196.26	-26.68	6,196.20	0.00	0.00	0.00	
17,200.00	90.00	179.90	11,291.00	-6,296.26	-26.50	6,296.20	0.00	0.00	0.00	
17,300.00	90.00	179.90	11,291.00	-6,396.26	-26.32	6,396.20	0.00	0.00	0.00	
17,400.00	90.00	179.90	11,291.00	-6,496.26	-26.14	6,496.20	0.00	0.00	0.00	
17,500.00	90.00	179.90	11,291.00	-6,596.26	-25.96	6,596.20	0.00	0.00	0.00	
17,600.00	90.00	179.90	11,291.00	-6,696.26	-25.78	6,696.20	0.00	0.00	0.00	
17,700.00	90.00	179.90	11,291.00	-6,796.26	-25.61	6,796.20	0.00	0.00	0.00	
17,800.00	90.00	179.90	11,291.00	-6,896.26	-25.43	6,896.20	0.00	0.00	0.00	
17,900.00	90.00	179.90	11,291.00	-6,996.26	-25.25	6,996.20	0.00	0.00	0.00	
18,000.00	90.00	179.90	11,291.00	-7,096.26	-25.07	7,096.20	0.00	0.00	0.00	
18,100.00	90.00	179.90	11,291.00	-7,196.26	-24.89	7,196.20	0.00	0.00	0.00	
18,200.00	90.00	179.90	11,291.00	-7,296.26	-24.71	7,296.20	0.00	0.00	0.00	
18,300.00	90.00	179.90	11,291.00	-7,396.26	-24.53	7,396.20	0.00	0.00	0.00	
18,400.00	90.00	179.90	11,291.00	-7,496.25	-24.35	7,496.20	0.00	0.00	0.00	
18,500.00	90.00	179.90	11,291.00	-7,596.25	-24.18	7,596.20	0.00	0.00	0.00	
18,600.00	90.00	179.90	11,291.00	-7,696.25	-24.00	7,696.20	0.00	0.00	0.00	
18,700.00	90.00	179.90	11,291.00	-7,796.25	-23.82	7,796.20	0.00	0.00	0.00	
18,800.00	90.00	179.90	11,291.00	-7,896.25	-23.64	7,896.20	0.00	0.00	0.00	
18,900.00	90.00	179.90	11,291.00	-7,996.25	-23.46	7,996.20	0.00	0.00	0.00	
19,000.00	90.00	179.90	11,291.00	-8,096.25	-23.28	8,096.20	0.00	0.00	0.00	
19,100.00	90.00	179.90	11,291.00	-8,196.25	-23.10	8,196.20	0.00	0.00	0.00	
19,200.00	90.00	179.90	11,291.00	-8,296.25	-22.92	8,296.20	0.00	0.00	0.00	
19,300.00	90.00	179.90	11,291.00	-8,396.25	-22.75	8,396.20	0.00	0.00	0.00	
19,400.00	90.00	179.90	11,291.00	-8,496.25	-22.57	8,496.20	0.00	0.00	0.00	
19,500.00	90.00	179.90	11,291.00	-8,596.25	-22.39	8,596.20	0.00	0.00	0.00	
19,600.00	90.00	179.90	11,291.00	-8,696.25	-22.21	8,696.20	0.00	0.00	0.00	
19,700.00	90.00	179.90	11,291.00	-8,796.25	-22.03	8,796.20	0.00	0.00	0.00	
19,800.00	90.00	179.90	11,291.00	-8,896.25	-21.85	8,896.20	0.00	0.00	0.00	
19,900.00	90.00	179.90	11,291.00	-8,996.25	-21.67	8,996.20	0.00	0.00	0.00	
20,000.00	90.00	179.90	11,291.00	-9,096.25	-21.49	9,096.20	0.00	0.00	0.00	
20,100.00	90.00	179.90	11,291.00	-9,196.25	-21.32	9,196.20	0.00	0.00	0.00	
20,200.00	90.00	179.90	11,291.00	-9,296.25	-21.14	9,296.20	0.00	0.00	0.00	
20,300.00	90.00	179.90	11,291.00	-9,396.25	-20.96	9,396.20	0.00	0.00	0.00	
20,400.00	90.00	179.90	11,291.00	-9,496.25	-20.78	9,496.20	0.00	0.00	0.00	
20,500.00	90.00	179.90	11,291.00	-9,596.25	-20.60	9,596.20	0.00	0.00	0.00	
20,600.00	90.00	179.90	11,291.00	-9,696.25	-20.42	9,696.20	0.00	0.00	0.00	
20,700.00	90.00	179.90	11,291.00	-9,796.25	-20.24	9,796.20	0.00	0.00	0.00	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

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)	
20,800.00	90.00	179.90	11,291.00	-9,896.25	-20.07	9,896.20	0.00	0.00	0.00	
20,900.00	90.00	179.90	11,291.00	-9,996.25	-19.89	9,996.20	0.00	0.00	0.00	
21,000.00	90.00	179.90	11,291.00	-10,096.25	-19.71	10,096.20	0.00	0.00	0.00	
21,100.00	90.00	179.90	11,291.00	-10,196.25	-19.53	10,196.20	0.00	0.00	0.00	
21,200.00	90.00	179.90	11,291.00	-10,296.25	-19.35	10,296.20	0.00	0.00	0.00	
21,300.00	90.00	179.90	11,291.00	-10,396.25	-19.17	10,396.20	0.00	0.00	0.00	
21,400.00	90.00	179.90	11,291.00	-10,496.25	-18.99	10,496.20	0.00	0.00	0.00	
21,500.00	90.00	179.90	11,291.00	-10,596.25	-18.81	10,596.20	0.00	0.00	0.00	
21,600.00	90.00	179.90	11,291.00	-10,696.25	-18.64	10,696.20	0.00	0.00	0.00	
21,616.15	90.00	179.90	11,291.00	-10,712.40	-18.61	10,712.35	0.00	0.00	0.00	
21,700.00	90.00	179.90	11,291.00	-10,796.25	-18.46	10,796.20	0.00	0.00	0.00	
21,746.15	90.00	179.90	11,291.00	-10,842.40	-18.37	10,842.35	0.00	0.00	0.00	

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PLU 21 BD 903H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	403,784.50	637,618.70	32.10933985	-103.88886814	
PLU 21 BD 903H LTP_ - plan misses target center by 0.09usft at 21616.15usft MD (11291.00 TVD, -10712.40 N, -18.61 E) - Point	0.00	0.00	11,291.00	-10,712.40	-18.70	393,072.10	637,600.00	32.07989201	-103.88907107	
PLU 21 BD 903H PBHL - plan misses target center by 0.73usft at 21746.15usft MD (11291.00 TVD, -10842.40 N, -18.37 E) - Rectangle (sides W100.00 H10,117.00 D0.00)	0.00	0.00	11,291.00	-10,842.40	-19.10	392,942.10	637,599.60	32.07953465	-103.88907409	
PLU 21 BD 903H LP - plan hits target center - Point	0.00	0.00	11,291.00	-720.47	-36.36	403,064.03	637,582.34	32.10735971	-103.88899516	
PLU 21 BD 903H FTP_ - plan misses target center by 0.01usft at 11629.23usft MD (11291.00 TVD, -725.50 N, -36.40 E) - Point	0.00	0.00	11,291.00	-725.50	-36.40	403,059.00	637,582.30	32.10734589	-103.88899536	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 903H - Slot PLU 21 BD 903H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 903H	Survey Calculation Method:	Minimum Curvature
Wellbore:	903H Lateral		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,021.00	1,021.00	RSLR				
1,026.00	1,026.00	T/SALT				
1,081.00	1,081.00	Base RSLR Anhydrite				
1,281.01	1,281.00	Salado				
2,309.38	2,306.00	CSTL				
3,567.16	3,561.00	SALT_B				
3,792.16	3,786.00	DLWR				
3,842.16	3,836.00	BLCN				
4,727.16	4,721.00	CYCN				
6,347.16	6,341.00	BYCN				
7,647.16	7,641.00	BSPG_LM				
8,547.16	8,541.00	BSPG1_LM				
8,567.16	8,561.00	BSPG1				
8,967.16	8,961.00	BSPG2_LM				
9,367.16	9,361.00	BSPG2				
9,692.16	9,686.00	BSPG3_LM				
10,517.16	10,511.00	BSPG3				
10,858.39	10,851.00	WFMP_X				
10,889.44	10,881.00	WFMP				
10,964.11	10,951.00	WFMP_Y				
11,003.04	10,986.00	WFMP_A				

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General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 538450

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 3617 Big Spring St. MIDLAND, TX 79705	OGRID: 373075
	Action Number: 538450
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	2/4/2026