

RECEIVED CD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
JAN 09 2020
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 re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.
FERNANDO ARTESIA5. 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 127H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.
30-015-45823-00-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 NENE 442FNL 1179FEL
32.209408 N Lat, 103.829491 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

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☐ Plug and Abandon☐ Plug Back

TYPE OF ACTION

☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other
Change to Original A
PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple 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 recomple 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 BHL from 2440' FNL & 990' FEL in Sec. 36-T24S-R30E to 200' FSL & 990' FEL in Sec. 25-T24S-R30E

Change the casing/cement design per the attached drilling program.

XTO requests to utilize centralizers from KOP to TOC only a minimum of one every other joint.

In addition, XTO requests a variance to be able to batch drill these wells if necessary. In doing so, XTO will set intermediate casing and ensure that the well is cemented properly and the well is dead. With floats holding, no pressure on the intermediate csg annulus, and the installation of a

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #493134 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 11/20/2019 (20PP0474SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 11/20/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JENNIFER SANCHEZ

Title PETROLEUM ENGINEER

Date 12/03/2019

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

Office Carlsbad

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 **

1/28/20

Additional data for EC transaction #493134 that would not fit on the form

32. Additional remarks, continued

TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the surface and intermediate for the remaining wells on the pad. Once surface and intermediate are all completed, XTO will begin drilling the production hole on each of the wells.

Poker Lake Unit 13 DTD 127H - 30-015-45823

Poker Lake Unit 13 DTD 907H - 30-015-45829

Poker Lake Unit 13 DTD 707H - 30-015-45828

Revisions to Operator-Submitted EC Data for Sundry Notice #493134

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM030453	NMNM030453
Agreement:	NMNM71016X	891000303X (NMNM71016X)
Operator:	XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	POKER LAKE UNIT 13 DTD 127H Sec 24 T24S R30E Mer NMP NENE 442FNL 1179FEL	POKER LAKE UNIT 13 DTD 127H Sec 24 T24S R30E NENE 442FNL 1179FEL 32.209408 N Lat, 103.829491 W Lon

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 30-015-45820 3	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 13 DTD	⁶ Well Number 127H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,474'

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
A	24	24 S	30 E		442	NORTH	1,179	EAST	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
P	25	24 S	30 E		200	SOUTH	990	EAST	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.

	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y = 440,281.6 X = 697,167.9 LAT. = 32.209407°N LONG. = 103.829490°W FIRST TAKE POINT NAD 83 NME Y = 440,394.2 X = 697,356.1 LAT. = 32.209714°N LONG. = 103.828879°W CORNER COORDINATES TABLE NAD 83 NME A - Y = 440,723.1 N, X = 697,006.5 E B - Y = 440,727.5 N, X = 698,344.8 E C - Y = 438,084.4 N, X = 697,016.3 E D - Y = 438,089.0 N, X = 698,354.9 E E - Y = 435,442.2 N, X = 697,026.2 E F - Y = 435,446.2 N, X = 698,365.4 E G - Y = 432,801.0 N, X = 697,038.3 E H - Y = 432,803.4 N, X = 698,375.8 E I - Y = 430,159.4 N, X = 697,050.5 E J - Y = 430,161.2 N, X = 698,386.6 E CORNER COORDINATES TABLE NAD 27 NME A - Y = 440,664.3 N, X = 655,822.5 E B - Y = 440,668.7 N, X = 657,160.8 E C - Y = 438,025.7 N, X = 655,832.2 E D - Y = 438,030.3 N, X = 657,170.8 E E - Y = 435,383.5 N, X = 655,842.0 E F - Y = 435,387.5 N, X = 657,181.2 E G - Y = 432,742.4 N, X = 655,854.0 E H - Y = 432,744.8 N, X = 657,191.5 E I - Y = 430,100.8 N, X = 655,866.2 E J - Y = 430,102.6 N, X = 657,202.2 E LAST TAKE POINT NAD 83 NME Y = 430,489.8 X = 697,395.3 LAT. = 32.182488°N LONG. = 103.828903°W BOTTOM HOLE LOCATION NAD 83 NME Y = 430,359.8 X = 697,395.8 LAT. = 32.182131°N LONG. = 103.828903°W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y = 440,222.8 X = 655,983.9 LAT. = 32.209284°N LONG. = 103.829005°W FIRST TAKE POINT NAD 27 NME Y = 440,335.4 X = 656,172.1 LAT. = 32.209591°N LONG. = 103.828395°W BOTTOM HOLE LOCATION NAD 27 NME Y = 430,301.2 X = 656,211.5 LAT. = 32.182007°N LONG. = 103.828420°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 11/15/19 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. 04-29-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR 2018010160		

RWP 1-29-2020

Intent, ☒ As Drilled ☐

API #
30-015-4582 **3**

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 13 DTD	Well Number 127H
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Kick Off Point (KOP)

UL A	Section 24	Township 24S	Range 30E	Lot	Feet 442	From N/S North	Feet 1179	From E/W East	County Eddy
Latitude 32.209407					Longitude -103.829490			NAD NAD83	

First Take Point (FTP)

UL A	Section 24	Township 24S	Range 30E	Lot	Feet 330	From N/S North	Feet 990	From E/W East	County Eddy
Latitude 32.209714					Longitude -103.828879			NAD NAD83	

Last Take Point (LTP)

UL P	Section 25	Township 24S	Range 30E	Lot	Feet 330	From N/S South	Feet 990	From E/W East	County Eddy
Latitude 32.182488					Longitude -103.828903			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 # 30-015-46251	Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 13 DTD	Well Number 206H
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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 127H
Projected TD: 22593' MD / 12510' TVD
SHL: 442' FNL & 1179' FEL , Section 24, T24S, R30E
BHL: 200' FSL & 990' FEL , 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	480'	Water
Top of Salt	930'	Water
Base of Salt	4060'	Water
Delaware	4225'	Water
Bone Spring	8070'	Water/Oil/Gas
1st Bone Spring Ss	9035'	Water/Oil/Gas
2nd Bone Spring Ss	9850'	Water/Oil/Gas
3rd Bone Spring Ss	10975'	Water/Oil/Gas
Wolfcamp Shale	11420'	Water/Oil/Gas
Wolfcamp A Shale	11530'	Water/Oil/Gas
Wolfcamp D Shale	12365'	Water/Oil/Gas
Wolfcamp D Target/Land Curve	12510'	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 18-5/8 inch casing @ 730' (200' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 4135' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 11700' and 9-5/8 inch casing ran and cemented 500' into the 13-3/8 inch casing. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 200' into the 9-5/8 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' - 730'	18-5/8"	87.5	BTC	J-55	New	1.81	1.91	11.80
17-1/2"	0' - 4135'	13-3/8"	68	BTC	HCL-80	New	1.62	2.14	3.39
12-1/4"	0' - 11700'	9-5/8"	40	BTC	HCL-80	New	1.01	1.24	1.96
8-3/4-8-1/2"	0' - 22593'	5-1/2"	20	BTC	P-110	New	1.18	1.31	1.97

XTO requests to utilize centralizers from KOP to TOC only a minimum of one every other joint.

13-3/8" Collapse analyzed using 50% evacuation based on regional experience.

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 2M Annular, Choke & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

WELLHEAD:

Temporary Wellhead

- 18-5/8" SOW x 21-1/4" 2M top flange

Permanent Wellhead - GE RSH Multibowl System

- A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 10M top flange
- 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 8-5/8" casing per Onshore Order 2.
- Wellhead manufacturer representative may not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New J-55, BTC casing to be set at +/- 730'

Lead: 570 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 550 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

Top of Cement: Surface

1st Intermediate Casing: 13-3/8", 68 New HCL-80, BTC casing to be set at +/- 4135'

Lead: 2440 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 850 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

Top of Cement: Surface

2nd Intermediate Casing (Stage 2): 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 11700'

ECP/DV Tool to be set at 4185'

1st Stage

Lead: 1130 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft³/sx, 9.61 gal/sx water)

Tail: 390 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: 2220 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 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:

Top of Cement: 200' inside previous casing shoe

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 22593'

Lead: 40 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 2530 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

Top of Cement: 300' inside previous casing shoe

5. Pressure Control Equipment

The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 1241 psi.

Once the permanent wellhead is installed the blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 10M Hydril, a 13-5/8" minimum 10M Double Ram and a 10M Single RAM BOP. MASP should not exceed 5705 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" 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When the 13-3/8" and 9-5/8" casing is set, the packoff seals will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M 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 730'	24"	FW/Native	8.4-8.8	35-40	NC
730' to 4135'	17-1/2"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
4135' to 11700'	12-1/4"	FW / Cut Brine	8.8-9.2	29-32	NC - 20
11700' to 22593'	8-3/4-8-1/2"	FW / Cut Brine / Polymer/ OBM	12.7-13.5	32-50	NC - 20

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

Spud with fresh water/native mud. Drill out from under 16" surface casing with brine solution. A 9.8ppg-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 1st intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

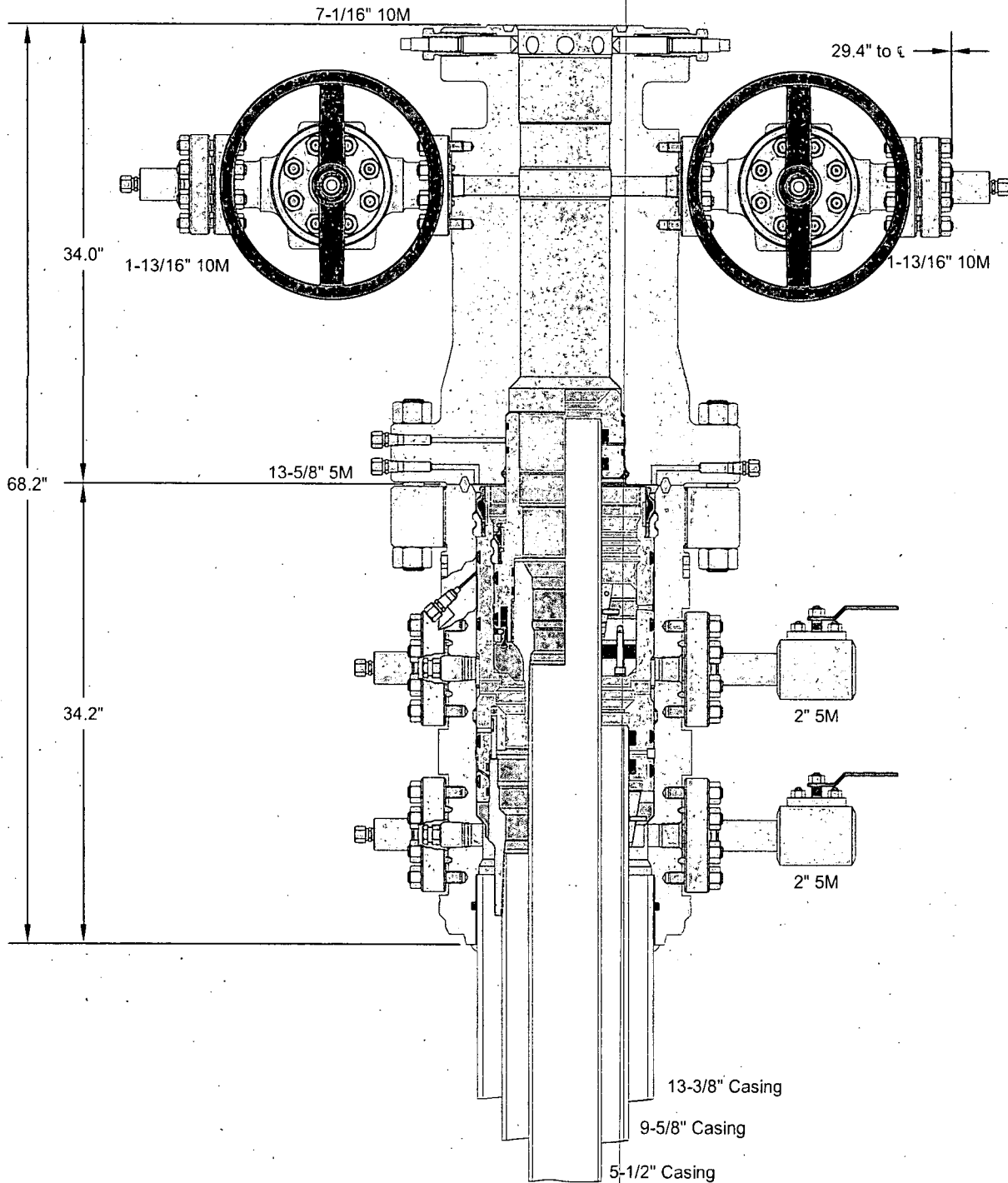
None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 8457 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.



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.

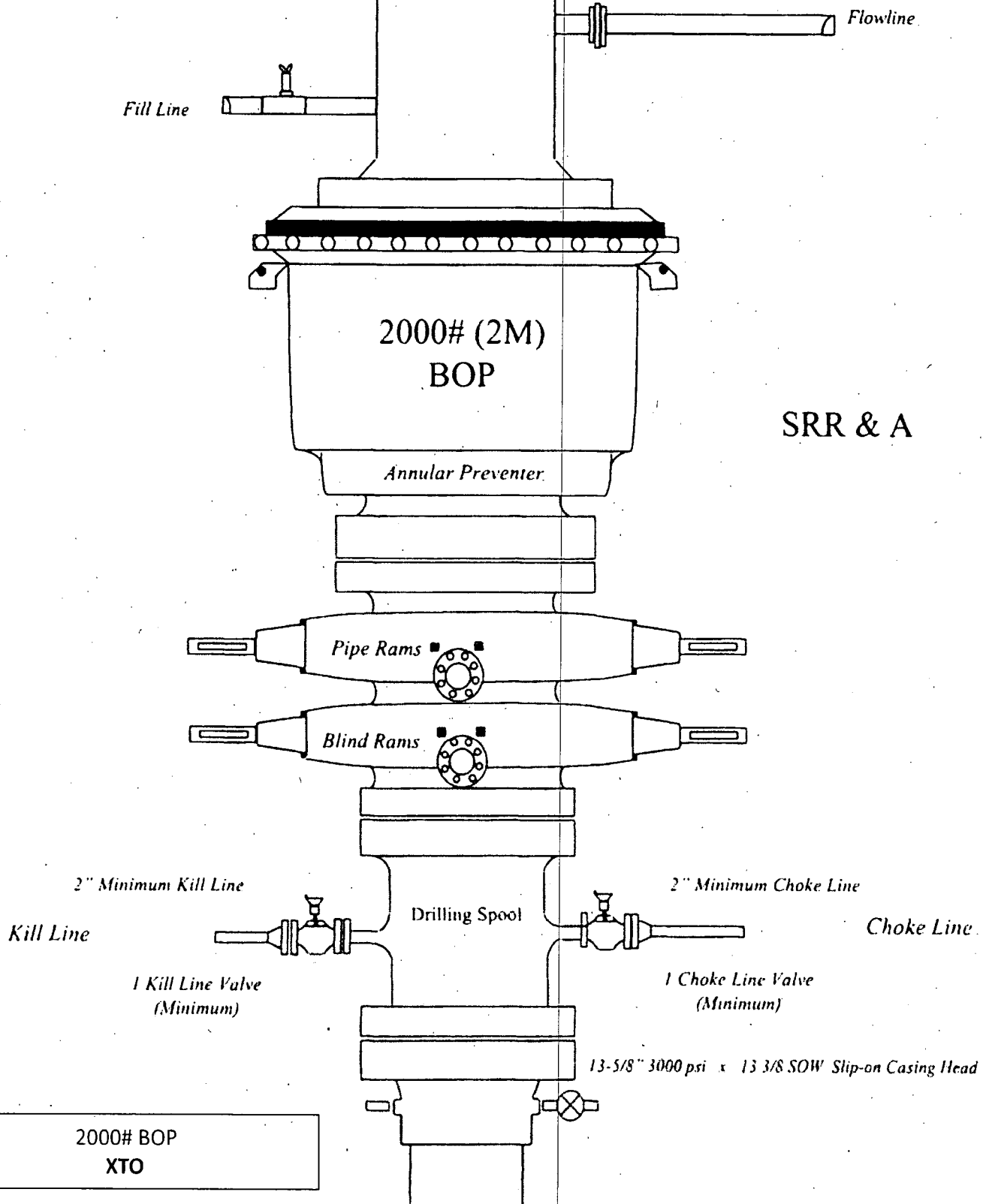
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
Assembly, With T-EBS-F Tubing Head

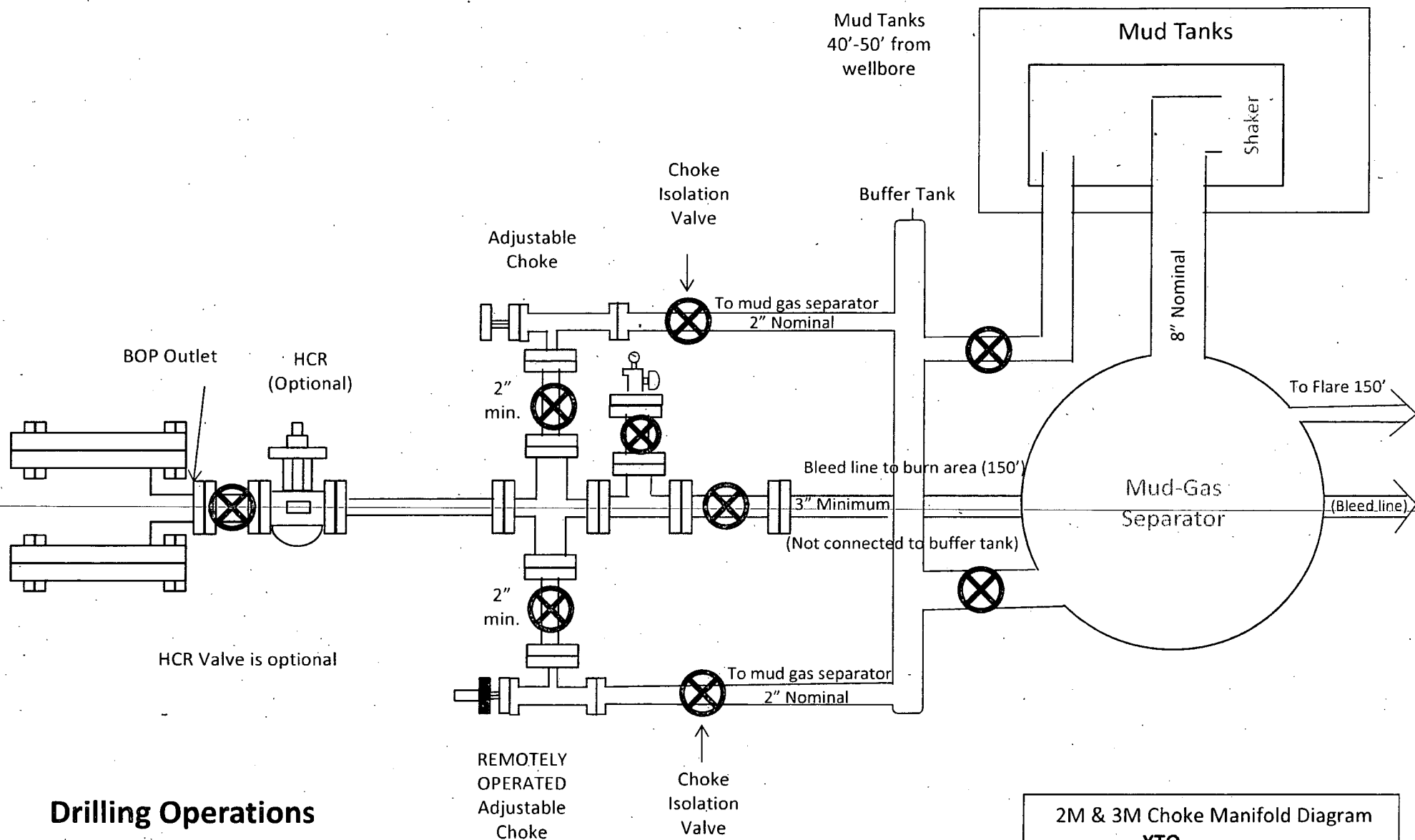
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APPRV KN 16FEB17

FOR REFERENCE ONLY

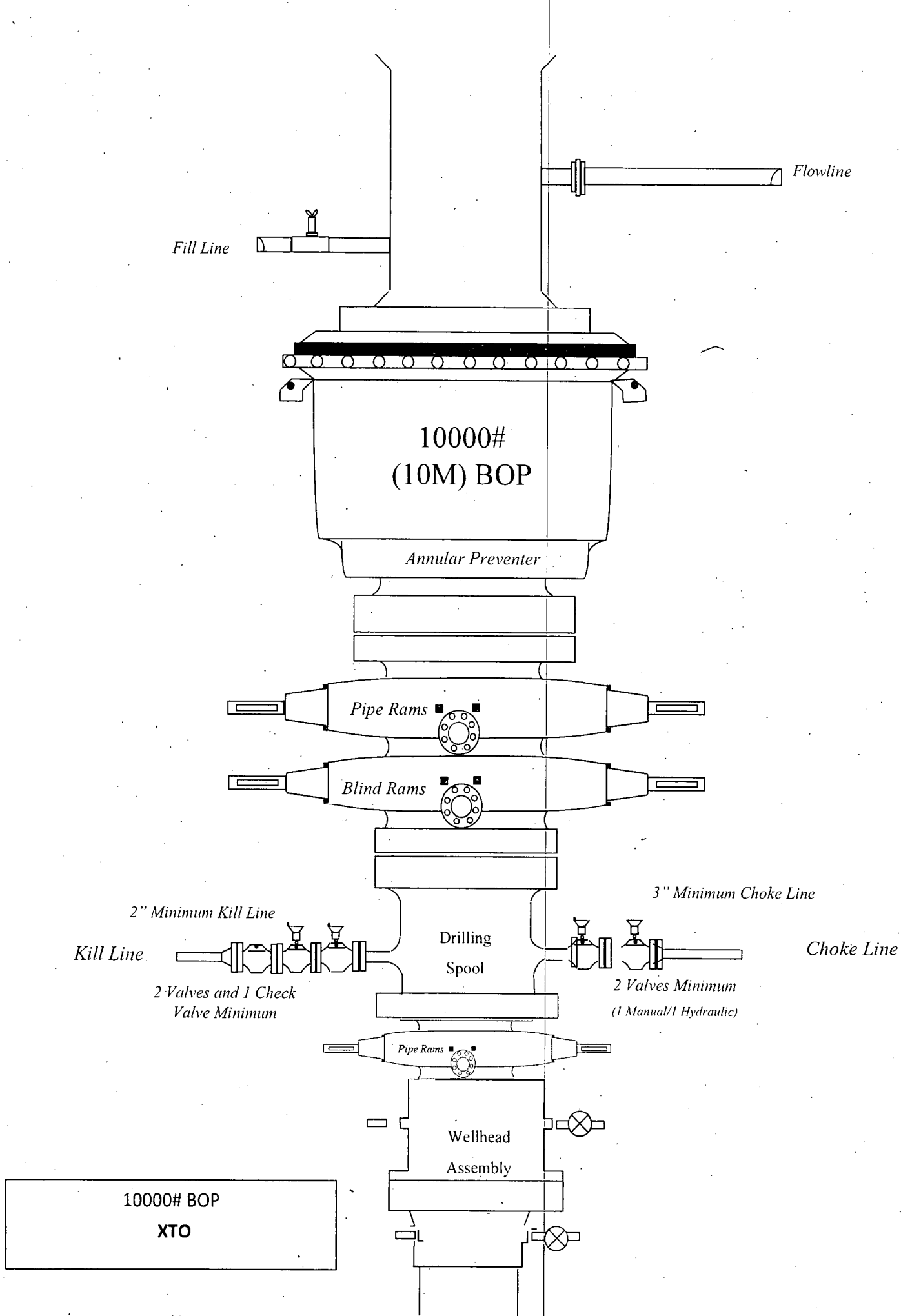
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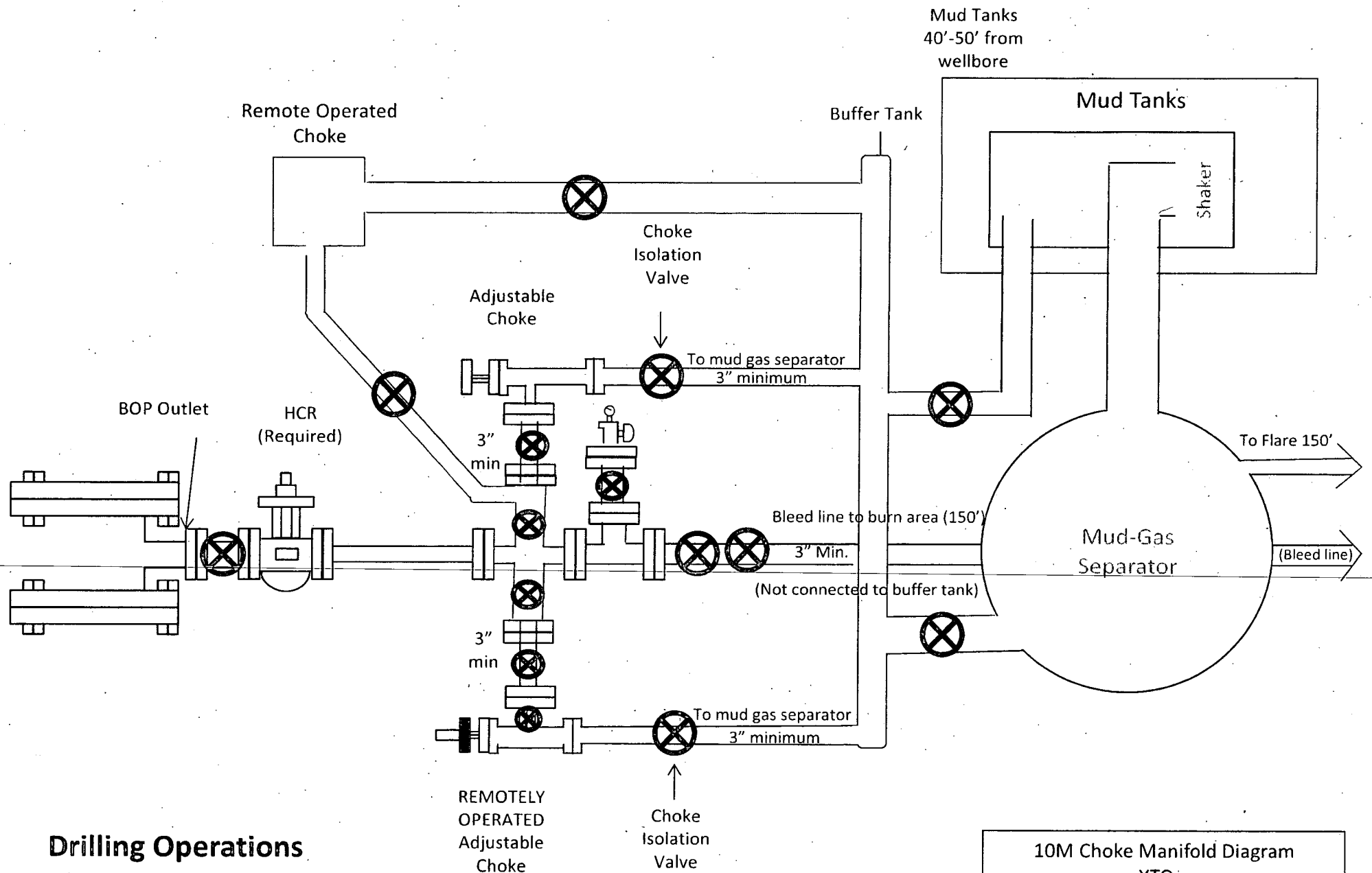




Drilling Operations Choke Manifold 2M & 3M Service

2M & 3M Choke Manifold Diagram
XTO





Drilling Operations **Choke Manifold** **10M Service**

10M Choke Manifold Diagram
XTO

10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

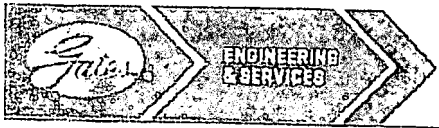
General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

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



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

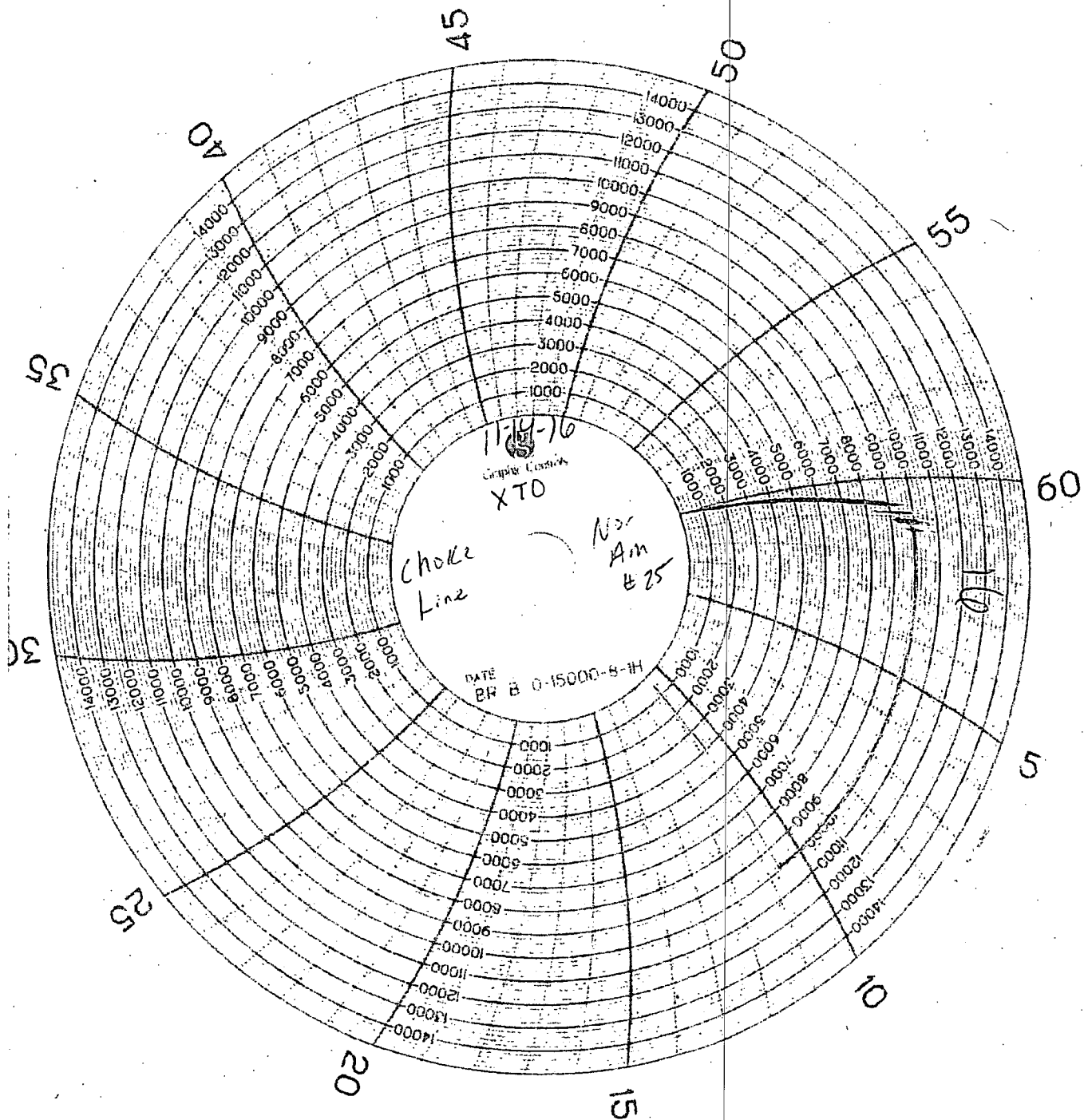
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.0-12.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.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

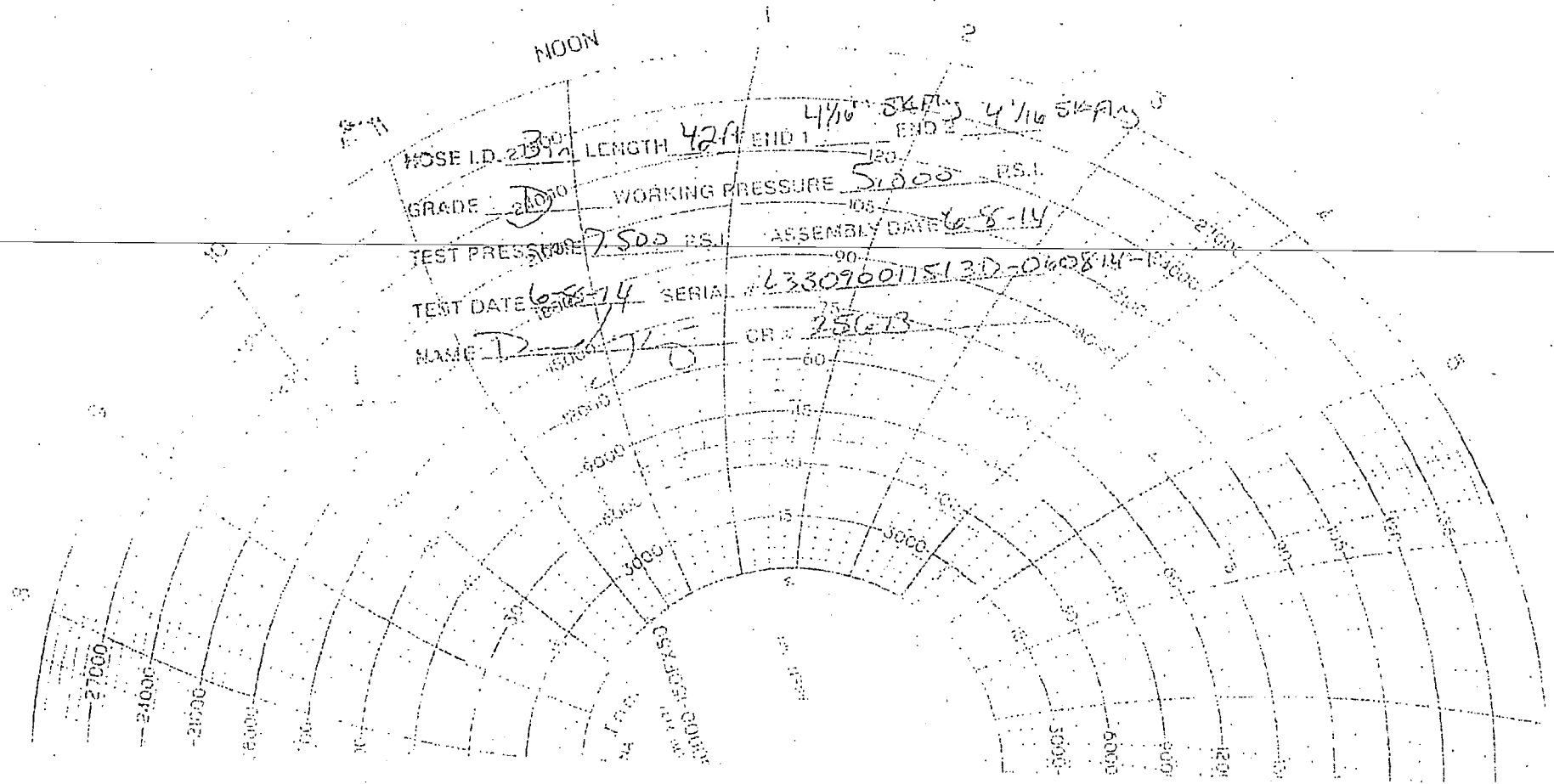
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance 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 :	



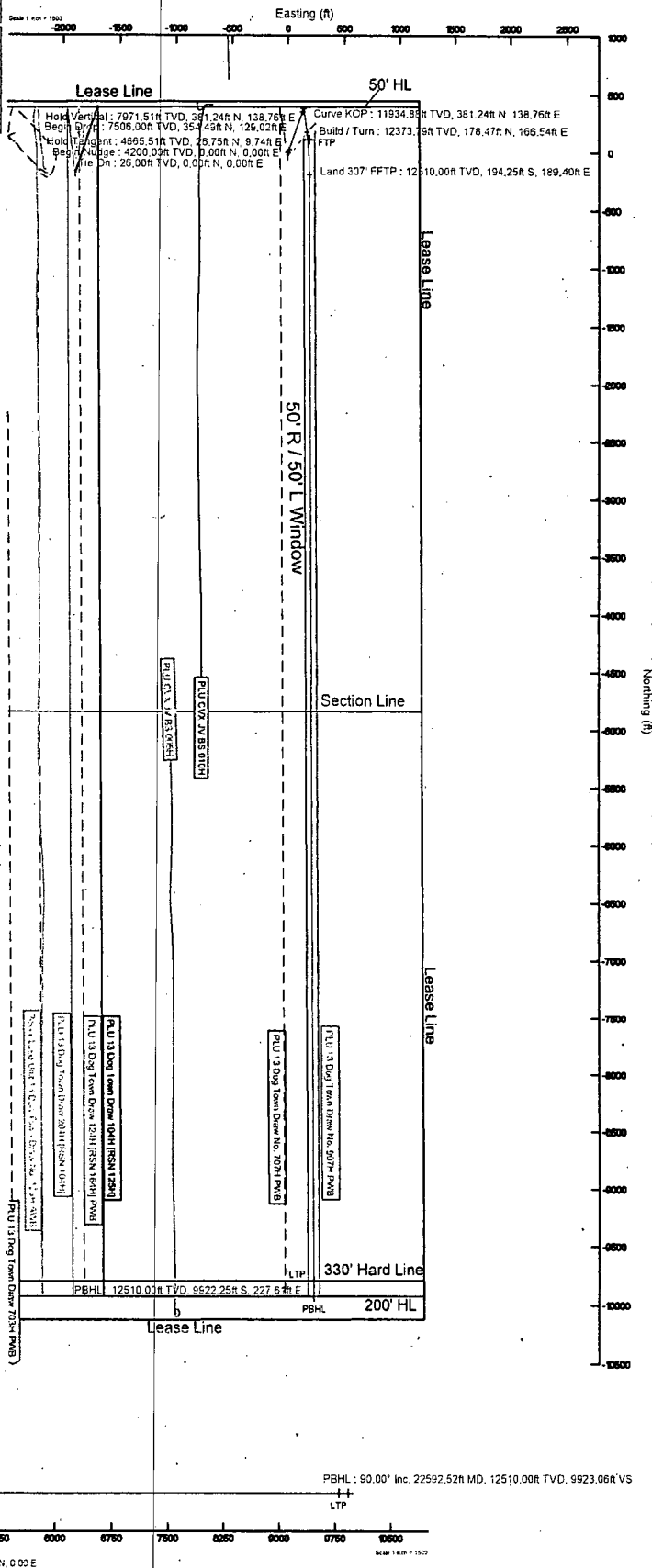
NOON

HOSE I.D. 3 1/2 LENGTH 42 ft END 1 4 1/16" S&P END 2 4 1/16" S&P
GRADE D WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14 SERIAL # L33090011513D-060814-14000
NAME D-75 CR # 25613



[illegible][illegible]

Well Profile Data									
Design Comments	MC (ft)	MD (ft)	22 1/2 (ft)	20 (ft)	12 1/2 (ft)	12 1/2 (ft)	12 1/2 (ft)	CLAY (ft)	VS (ft)
Surface	70.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00
4" to 6"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
6" to 8"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
8" to 10"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
10" to 12"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
12" to 14"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
14" to 16"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
16" to 18"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
18" to 20"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
20" to 22"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
22" to 24"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
24" to 26"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
26" to 28"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
28" to 30"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
30" to 32"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
32" to 34"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
34" to 36"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
36" to 38"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
38" to 40"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
40" to 42"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
42" to 44"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
44" to 46"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
46" to 48"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
48" to 50"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
50" to 52"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
52" to 54"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
54" to 56"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
56" to 58"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
58" to 60"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
60" to 62"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
62" to 64"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
64" to 66"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
66" to 68"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
68" to 70"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00
70" to 72"	470.00	0.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00

[illegible]



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Okimlucg
Scale	0.999937	Report Generated	19/Nov/2019 at 08:09
Convergence at slot	0.27° East	Database	WA_HOU_Midland_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W
Facility Reference Pt			655983.90	440222.80	32°12'33.421"N	103°49'44.417"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Ensign 121 (KB) to Facility Vertical Datum	3500.00ft
Horizontal Reference Pt	Slot	Ensign 121 (KB) to Mean Sea Level	3500.00ft
Vertical Reference Pt	Ensign 121 (KB)	Ensign 121 (KB) to Ground Level at Slot (PLU 13 Dog Town Draw No. 127H)	26.00ft
MD Reference Pt	Ensign 121 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.78°



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	20.000	0.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
26.00	0.000	20.000	26.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	Tie On
126.00†	0.000	20.000	126.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
226.00†	0.000	20.000	226.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
326.00†	0.000	20.000	326.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
426.00†	0.000	20.000	426.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
526.00†	0.000	20.000	526.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
626.00†	0.000	20.000	626.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
726.00†	0.000	20.000	726.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
826.00†	0.000	20.000	826.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
926.00†	0.000	20.000	926.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1026.00†	0.000	20.000	1026.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1126.00†	0.000	20.000	1126.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1226.00†	0.000	20.000	1226.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1326.00†	0.000	20.000	1326.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1426.00†	0.000	20.000	1426.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1526.00†	0.000	20.000	1526.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1626.00†	0.000	20.000	1626.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1726.00†	0.000	20.000	1726.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1826.00†	0.000	20.000	1826.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
1926.00†	0.000	20.000	1926.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2026.00†	0.000	20.000	2026.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2126.00†	0.000	20.000	2126.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2226.00†	0.000	20.000	2226.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2326.00†	0.000	20.000	2326.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2426.00†	0.000	20.000	2426.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2526.00†	0.000	20.000	2526.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2626.00†	0.000	20.000	2626.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2726.00†	0.000	20.000	2726.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
2826.00†	0.000	20.000	2826.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2926.00†	0.000	20.000	2926.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3026.00†	0.000	20.000	3026.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3126.00†	0.000	20.000	3126.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3226.00†	0.000	20.000	3226.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3326.00†	0.000	20.000	3326.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3426.00†	0.000	20.000	3426.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3526.00†	0.000	20.000	3526.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3626.00†	0.000	20.000	3626.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3726.00†	0.000	20.000	3726.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3826.00†	0.000	20.000	3826.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
3926.00†	0.000	20.000	3926.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
4026.00†	0.000	20.000	4026.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
4126.00†	0.000	20.000	4126.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	
4200.00	0.000	20.000	4200.00	0.00	0.00	0.00	655983.90	440222.80	32°12'33.421"N	103°49'44.417"W	0.00	0.00	0.00	Begin Nudge
4226.00†	0.390	20.000	4226.00	-0.08	0.08	0.03	655983.93	440222.88	32°12'33.422"N	103°49'44.417"W	1.50	1.50	76.92	
4326.00†	1.890	20.000	4325.98	-1.95	1.95	0.71	655984.61	440224.75	32°12'33.440"N	103°49'44.409"W	1.50	1.50	0.00	
4426.00†	3.390	20.000	4425.87	-6.27	6.28	2.29	655986.19	440229.08	32°12'33.483"N	103°49'44.390"W	1.50	1.50	0.00	
4526.00†	4.890	20.000	4525.60	-13.05	13.06	4.76	655988.65	440235.86	32°12'33.550"N	103°49'44.361"W	1.50	1.50	0.00	
4626.00†	6.390	20.000	4625.12	-22.27	22.30	8.12	655992.02	440245.10	32°12'33.641"N	103°49'44.322"W	1.50	1.50	0.00	
4666.67	7.000	20.000	4665.51	-26.72	26.75	9.74	655993.64	440249.55	32°12'33.685"N	103°49'44.302"W	1.50	1.50	0.00	Hold Tangent
4726.00†	7.000	20.000	4724.40	-33.50	33.55	12.21	655996.11	440256.35	32°12'33.753"N	103°49'44.273"W	0.00	0.00	0.00	
4826.00†	7.000	20.000	4823.65	-44.94	45.00	16.38	656000.28	440267.80	32°12'33.866"N	103°49'44.224"W	0.00	0.00	0.00	
4926.00†	7.000	20.000	4922.91	-56.37	56.45	20.55	656004.45	440279.25	32°12'33.979"N	103°49'44.175"W	0.00	0.00	0.00	
5026.00†	7.000	20.000	5022.16	-67.81	67.91	24.72	656008.61	440290.70	32°12'34.092"N	103°49'44.126"W	0.00	0.00	0.00	
5126.00†	7.000	20.000	5121.42	-79.24	79.36	28.88	656012.78	440302.15	32°12'34.205"N	103°49'44.077"W	0.00	0.00	0.00	
5226.00†	7.000	20.000	5220.67	-90.68	90.81	33.05	656016.95	440313.60	32°12'34.318"N	103°49'44.028"W	0.00	0.00	0.00	
5326.00†	7.000	20.000	5319.93	-102.11	102.26	37.22	656021.12	440325.05	32°12'34.431"N	103°49'43.978"W	0.00	0.00	0.00	
5426.00†	7.000	20.000	5419.18	-113.55	113.71	41.39	656025.29	440336.51	32°12'34.544"N	103°49'43.929"W	0.00	0.00	0.00	
5526.00†	7.000	20.000	5518.43	-124.99	125.17	45.56	656029.45	440347.96	32°12'34.658"N	103°49'43.880"W	0.00	0.00	0.00	
5626.00†	7.000	20.000	5617.69	-136.42	136.62	49.72	656033.62	440359.41	32°12'34.771"N	103°49'43.831"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim

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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5726.00†	7.000	20.000	5716.94	-147.86	148.07	53.89	656037.79	440370.86	32°12'34.884"N	103°49'43.782"W	0.00	0.00	0.00	
5826.00†	7.000	20.000	5816.20	-159.29	159.52	58.06	656041.96	440382.31	32°12'34.997"N	103°49'43.733"W	0.00	0.00	0.00	
5926.00†	7.000	20.000	5915.45	-170.73	170.97	62.23	656046.13	440393.76	32°12'35.110"N	103°49'43.684"W	0.00	0.00	0.00	
6026.00†	7.000	20.000	6014.71	-182.16	182.43	66.40	656050.29	440405.21	32°12'35.223"N	103°49'43.635"W	0.00	0.00	0.00	
6126.00†	7.000	20.000	6113.96	-193.60	193.88	70.57	656054.46	440416.66	32°12'35.336"N	103°49'43.585"W	0.00	0.00	0.00	
6226.00†	7.000	20.000	6213.22	-205.03	205.33	74.73	656058.63	440428.12	32°12'35.450"N	103°49'43.536"W	0.00	0.00	0.00	
6326.00†	7.000	20.000	6312.47	-216.47	216.78	78.90	656062.80	440439.57	32°12'35.563"N	103°49'43.487"W	0.00	0.00	0.00	
6426.00†	7.000	20.000	6411.73	-227.90	228.23	83.07	656066.96	440451.02	32°12'35.676"N	103°49'43.438"W	0.00	0.00	0.00	
6526.00†	7.000	20.000	6510.98	-239.34	239.68	87.24	656071.13	440462.47	32°12'35.789"N	103°49'43.389"W	0.00	0.00	0.00	
6626.00†	7.000	20.000	6610.24	-250.78	251.14	91.41	656075.30	440473.92	32°12'35.902"N	103°49'43.340"W	0.00	0.00	0.00	
6726.00†	7.000	20.000	6709.49	-262.21	262.59	95.57	656079.47	440485.37	32°12'36.015"N	103°49'43.291"W	0.00	0.00	0.00	
6826.00†	7.000	20.000	6808.74	-273.65	274.04	99.74	656083.64	440496.82	32°12'36.128"N	103°49'43.241"W	0.00	0.00	0.00	
6926.00†	7.000	20.000	6908.00	-285.08	285.49	103.91	656087.80	440508.27	32°12'36.241"N	103°49'43.192"W	0.00	0.00	0.00	
7026.00†	7.000	20.000	7007.25	-296.52	296.94	108.08	656091.97	440519.73	32°12'36.355"N	103°49'43.143"W	0.00	0.00	0.00	
7126.00†	7.000	20.000	7106.51	-307.95	308.40	112.25	656096.14	440531.18	32°12'36.468"N	103°49'43.094"W	0.00	0.00	0.00	
7226.00†	7.000	20.000	7205.76	-319.39	319.85	116.42	656100.31	440542.63	32°12'36.581"N	103°49'43.045"W	0.00	0.00	0.00	
7326.00†	7.000	20.000	7305.02	-330.82	331.30	120.58	656104.48	440554.08	32°12'36.694"N	103°49'42.996"W	0.00	0.00	0.00	
7426.00†	7.000	20.000	7404.27	-342.26	342.75	124.75	656108.64	440565.53	32°12'36.807"N	103°49'42.947"W	0.00	0.00	0.00	
7526.00†	7.000	20.000	7503.53	-353.70	354.20	128.92	656112.81	440576.98	32°12'36.920"N	103°49'42.897"W	0.00	0.00	0.00	
7528.49	7.000	20.000	7506.00	-353.98	354.49	129.02	656112.92	440577.27	32°12'36.923"N	103°49'42.896"W	0.00	0.00	0.00	Begin Drop
7626.00†	5.537	20.000	7602.92	-363.97	364.49	132.67	656116.56	440587.27	32°12'37.022"N	103°49'42.853"W	1.50	-1.50	0.00	
7726.00†	4.037	20.000	7702.57	-371.80	372.34	135.52	656119.41	440595.11	32°12'37.099"N	103°49'42.820"W	1.50	-1.50	0.00	
7826.00†	2.537	20.000	7802.40	-377.18	377.73	137.48	656121.37	440600.50	32°12'37.153"N	103°49'42.797"W	1.50	-1.50	0.00	
7926.00†	1.037	20.000	7902.35	-380.11	380.66	138.55	656122.44	440603.43	32°12'37.181"N	103°49'42.784"W	1.50	-1.50	0.00	
7995.16	0.000	172.200	7971.51	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	1.50	-1.50	-28.92	Hold Vertical
8026.00†	0.000	172.200	8002.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8126.00†	0.000	172.200	8102.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8226.00†	0.000	172.200	8202.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8326.00†	0.000	172.200	8302.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8426.00†	0.000	172.200	8402.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8526.00†	0.000	172.200	8502.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8626.00†	0.000	172.200	8602.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8726.00†	0.000	172.200	8702.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8826.00†	0.000	172.200	8802.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
8926.00†	0.000	172.200	8902.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9026.00†	0.000	172.200	9002.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9126.00†	0.000	172.200	9102.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9226.00†	0.000	172.200	9202.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9326.00†	0.000	172.200	9302.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9426.00†	0.000	172.200	9402.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9526.00†	0.000	172.200	9502.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9626.00†	0.000	172.200	9602.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9726.00†	0.000	172.200	9702.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9826.00†	0.000	172.200	9802.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
9926.00†	0.000	172.200	9902.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10026.00†	0.000	172.200	10002.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10126.00†	0.000	172.200	10102.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10226.00†	0.000	172.200	10202.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10326.00†	0.000	172.200	10302.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10426.00†	0.000	172.200	10402.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10526.00†	0.000	172.200	10502.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10626.00†	0.000	172.200	10602.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10726.00†	0.000	172.200	10702.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10826.00†	0.000	172.200	10802.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
10926.00†	0.000	172.200	10902.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11026.00†	0.000	172.200	11002.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11126.00†	0.000	172.200	11102.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11226.00†	0.000	172.200	11202.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11326.00†	0.000	172.200	11302.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11426.00†	0.000	172.200	11402.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11526.00†	0.000	172.200	11502.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11626.00†	0.000	172.200	11602.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11726.00†	0.000	172.200	11702.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11826.00†	0.000	172.200	11802.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11926.00†	0.000	172.200	11902.35	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	
11958.53	0.000	172.200	11934.88	-380.70	381.24	138.76	656122.65	440604.02	32°12'37.187"N	103°49'42.781"W	0.00	0.00	0.00	Curve KOP
12026.00†	6.747	172.200	12002.19	-376.76	377.31	139.30	656123.19	440600.09	32°12'37.148"N	103°49'42.775"W	10.00	10.00	255.23	
12126.00†	16.747	172.200	12099.97	-356.61	357.17	142.06	656125.95	440579.95	32°12'36.949"N	103°49'42.744"W	10.00	10.00	0.00	
12226.00†	26.747	172.200	12192.74	-319.93	320.51	147.08	656130.97	440543.29	32°12'36.586"N	103°49'42.688"W	10.00	10.00	0.00	
12326.00†	36.747	172.200	12277.67	-267.84	268.44	154.21	656138.10	440491.23	32°12'36.070"N	103°49'42.608"W	10.00	10.00	0.00	
12426.00†	46.747	172.200	12352.18	-201.92	202.56	163.24	656147.13	440425.35	32°12'35.418"N	103°49'42.506"W	10.00	10.00	0.00	
12458.53	50.000	172.200	12373.79	-177.82	178.47	166.54	656150.43	440401.26	32°12'35.179"N	103°49'42.469"W	10.00	10.00	0.00	Build / Turn
12526.00†	56.619	173.833	12414.08	-124.12	124.80	173.08	656156.97	440347.59	32°12'34.648"N	103°49'42.396"W	10.00	9.81	2.42	
12626.00†	66.461	175.851	12461.68	-36.64	37.35	180.90	656164.79	440260.15	32°12'33.782"N	103°49'42.310"W	10.00	9.84	2.02	
12726.00†	76.326	177.584	12493.55	-57.88	-57.15	186.28	656170.17	440165.65	32°12'32.847"N	103°49'42.252"W	10.00	9.86	1.73	
12826.00†	86.201	179.177	12508.72	156.57	-155.83	189.05	656172.94	440066.98	32°12'31.870"N	103°49'42.226"W	10.00	9.88	1.59	
12864.45	90.000	179.775	12510.00	194.99	-194.25	189.40	656173.29	440028.56	32°12'31.490"N	103°49'42.224"W	10.00	9.88	1.55	Land 307' FFTP
12926.00†	90.000	179.775	12510.00	256.54	-255.80	189.64	656173.53	439967.02	32°12'30.881"N	103°49'42.224"W	0.00	0.00	0.00	
13026.00†	90.000	179.775	12510.00	356.54	-355.79	190.04	656173.92	439867.03	32°12'29.892"N	103°49'42.225"W	0.00	0.00	0.00	
13126.00†	90.000	179.775	12510.00	456.54	-455.79	190.43	656174.32	439767.04	32°12'28.902"N	103°49'42.226"W	0.00	0.00	0.00	
13226.00†	90.000	179.775	12510.00	556.54	-555.79	190.82	656174.71	439667.04	32°12'27.913"N	103°49'42.227"W	0.00	0.00	0.00	
13326.00†	90.000	179.775	12510.00	656.54	-655.79	191.21	656175.10	439567.05	32°12'26.923"N	103°49'42.228"W	0.00	0.00	0.00	
13426.00†	90.000	179.775	12510.00	756.54	-755.79	191.61	656175.49	439467.06	32°12'25.933"N	103°49'42.229"W	0.00	0.00	0.00	
13526.00†	90.000	179.775	12510.00	856.54	-855.79	192.00	656175.89	439367.07	32°12'24.944"N	103°49'42.229"W	0.00	0.00	0.00	
13626.00†	90.000	179.775	12510.00	956.54	-955.79	192.39	656176.28	439267.07	32°12'23.954"N	103°49'42.230"W	0.00	0.00	0.00	
13726.00†	90.000	179.775	12510.00	1056.54	-1055.79	192.78	656176.67	439167.08	32°12'22.965"N	103°49'42.231"W	0.00	0.00	0.00	
13826.00†	90.000	179.775	12510.00	1156.54	-1155.79	193.18	656177.07	439067.09	32°12'21.975"N	103°49'42.232"W	0.00	0.00	0.00	
13926.00†	90.000	179.775	12510.00	1256.54	-1255.79	193.57	656177.46	438967.09	32°12'20.986"N	103°49'42.233"W	0.00	0.00	0.00	
14026.00†	90.000	179.775	12510.00	1356.54	-1355.79	193.96	656177.85	438867.10	32°12'19.996"N	103°49'42.234"W	0.00	0.00	0.00	
14126.00†	90.000	179.775	12510.00	1456.54	-1455.79	194.36	656178.24	438767.11	32°12'19.007"N	103°49'42.235"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
14226.00†	90.000	179.775	12510.00	1556.54	-1555.79	194.75	656178.64	438667.12	32°12'18.017"N	103°49'42.236"W	0.00	0.00	0.00	
14326.00†	90.000	179.775	12510.00	1656.54	-1655.78	195.14	656179.03	438567.12	32°12'17.027"N	103°49'42.237"W	0.00	0.00	0.00	
14426.00†	90.000	179.775	12510.00	1756.54	-1755.78	195.53	656179.42	438467.13	32°12'16.038"N	103°49'42.238"W	0.00	0.00	0.00	
14526.00†	90.000	179.775	12510.00	1856.54	-1855.78	195.93	656179.81	438367.14	32°12'15.048"N	103°49'42.238"W	0.00	0.00	0.00	
14626.00†	90.000	179.775	12510.00	1956.54	-1955.78	196.32	656180.21	438267.15	32°12'14.059"N	103°49'42.239"W	0.00	0.00	0.00	
14726.00†	90.000	179.775	12510.00	2056.54	-2055.78	196.71	656180.60	438167.15	32°12'13.069"N	103°49'42.240"W	0.00	0.00	0.00	
14826.00†	90.000	179.775	12510.00	2156.54	-2155.78	197.11	656180.99	438067.16	32°12'12.080"N	103°49'42.241"W	0.00	0.00	0.00	
14926.00†	90.000	179.775	12510.00	2256.54	-2255.78	197.50	656181.39	437967.17	32°12'11.090"N	103°49'42.242"W	0.00	0.00	0.00	
15026.00†	90.000	179.775	12510.00	2356.54	-2355.78	197.89	656181.78	437867.17	32°12'10.101"N	103°49'42.243"W	0.00	0.00	0.00	
15126.00†	90.000	179.775	12510.00	2456.54	-2455.78	198.28	656182.17	437767.18	32°12'09.111"N	103°49'42.244"W	0.00	0.00	0.00	
15226.00†	90.000	179.775	12510.00	2556.54	-2555.78	198.68	656182.56	437667.19	32°12'08.122"N	103°49'42.245"W	0.00	0.00	0.00	
15326.00†	90.000	179.775	12510.00	2656.54	-2655.78	199.07	656182.96	437567.20	32°12'07.132"N	103°49'42.246"W	0.00	0.00	0.00	
15426.00†	90.000	179.775	12510.00	2756.54	-2755.78	199.46	656183.35	437467.20	32°12'06.142"N	103°49'42.246"W	0.00	0.00	0.00	
15526.00†	90.000	179.775	12510.00	2856.54	-2855.78	199.86	656183.74	437367.21	32°12'05.153"N	103°49'42.247"W	0.00	0.00	0.00	
15626.00†	90.000	179.775	12510.00	2956.54	-2955.77	200.25	656184.14	437267.22	32°12'04.163"N	103°49'42.248"W	0.00	0.00	0.00	
15726.00†	90.000	179.775	12510.00	3056.54	-3055.77	200.64	656184.53	437167.23	32°12'03.174"N	103°49'42.249"W	0.00	0.00	0.00	
15826.00†	90.000	179.775	12510.00	3156.54	-3155.77	201.03	656184.92	437067.23	32°12'02.184"N	103°49'42.250"W	0.00	0.00	0.00	
15926.00†	90.000	179.775	12510.00	3256.54	-3255.77	201.43	656185.31	436967.24	32°12'01.195"N	103°49'42.251"W	0.00	0.00	0.00	
16026.00†	90.000	179.775	12510.00	3356.54	-3355.77	201.82	656185.71	436867.25	32°12'00.205"N	103°49'42.252"W	0.00	0.00	0.00	
16126.00†	90.000	179.775	12510.00	3456.54	-3455.77	202.21	656186.10	436767.25	32°11'59.216"N	103°49'42.253"W	0.00	0.00	0.00	
16226.00†	90.000	179.775	12510.00	3556.54	-3555.77	202.61	656186.49	436667.26	32°11'58.226"N	103°49'42.254"W	0.00	0.00	0.00	
16326.00†	90.000	179.775	12510.00	3656.54	-3655.77	203.00	656186.89	436567.27	32°11'57.237"N	103°49'42.255"W	0.00	0.00	0.00	
16426.00†	90.000	179.775	12510.00	3756.54	-3755.77	203.39	656187.28	436467.28	32°11'56.247"N	103°49'42.255"W	0.00	0.00	0.00	
16526.00†	90.000	179.775	12510.00	3856.54	-3855.77	203.78	656187.67	436367.28	32°11'55.257"N	103°49'42.256"W	0.00	0.00	0.00	
16626.00†	90.000	179.775	12510.00	3956.54	-3955.77	204.18	656188.06	436267.29	32°11'54.268"N	103°49'42.257"W	0.00	0.00	0.00	
16726.00†	90.000	179.775	12510.00	4056.54	-4055.77	204.57	656188.46	436167.30	32°11'53.278"N	103°49'42.258"W	0.00	0.00	0.00	
16826.00†	90.000	179.775	12510.00	4156.54	-4155.77	204.96	656188.85	436067.31	32°11'52.289"N	103°49'42.259"W	0.00	0.00	0.00	
16926.00†	90.000	179.775	12510.00	4256.54	-4255.76	205.36	656189.24	435967.31	32°11'51.299"N	103°49'42.260"W	0.00	0.00	0.00	
17026.00†	90.000	179.775	12510.00	4356.54	-4355.76	205.75	656189.63	435867.32	32°11'50.310"N	103°49'42.261"W	0.00	0.00	0.00	
17126.00†	90.000	179.775	12510.00	4456.54	-4455.76	206.14	656190.03	435767.33	32°11'49.320"N	103°49'42.262"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
17226.00†	90.000	179.775	12510.00	4556.54	-4555.76	206.53	656190.42	435667.33	32°11'48.331"N	103°49'42.263"W	0.00	0.00	0.00	
17326.00†	90.000	179.775	12510.00	4656.54	-4655.76	206.93	656190.81	435567.34	32°11'47.341"N	103°49'42.263"W	0.00	0.00	0.00	
17426.00†	90.000	179.775	12510.00	4756.54	-4755.76	207.32	656191.21	435467.35	32°11'46.351"N	103°49'42.264"W	0.00	0.00	0.00	
17526.00†	90.000	179.775	12510.00	4856.54	-4855.76	207.71	656191.60	435367.36	32°11'45.362"N	103°49'42.265"W	0.00	0.00	0.00	
17626.00†	90.000	179.775	12510.00	4956.54	-4955.76	208.11	656191.99	435267.36	32°11'44.372"N	103°49'42.266"W	0.00	0.00	0.00	
17726.00†	90.000	179.775	12510.00	5056.54	-5055.76	208.50	656192.38	435167.37	32°11'43.383"N	103°49'42.267"W	0.00	0.00	0.00	
17826.00†	90.000	179.775	12510.00	5156.54	-5155.76	208.89	656192.78	435067.38	32°11'42.393"N	103°49'42.268"W	0.00	0.00	0.00	
17926.00†	90.000	179.775	12510.00	5256.54	-5255.76	209.28	656193.17	434967.39	32°11'41.404"N	103°49'42.269"W	0.00	0.00	0.00	
18026.00†	90.000	179.775	12510.00	5356.54	-5355.76	209.68	656193.56	434867.39	32°11'40.414"N	103°49'42.270"W	0.00	0.00	0.00	
18126.00†	90.000	179.775	12510.00	5456.54	-5455.76	210.07	656193.96	434767.40	32°11'39.425"N	103°49'42.271"W	0.00	0.00	0.00	
18226.00†	90.000	179.775	12510.00	5556.54	-5555.75	210.46	656194.35	434667.41	32°11'38.435"N	103°49'42.271"W	0.00	0.00	0.00	
18326.00†	90.000	179.775	12510.00	5656.54	-5655.75	210.85	656194.74	434567.41	32°11'37.445"N	103°49'42.272"W	0.00	0.00	0.00	
18426.00†	90.000	179.775	12510.00	5756.54	-5755.75	211.25	656195.13	434467.42	32°11'36.456"N	103°49'42.273"W	0.00	0.00	0.00	
18526.00†	90.000	179.775	12510.00	5856.54	-5855.75	211.64	656195.53	434367.43	32°11'35.466"N	103°49'42.274"W	0.00	0.00	0.00	
18626.00†	90.000	179.775	12510.00	5956.54	-5955.75	212.03	656195.92	434267.44	32°11'34.477"N	103°49'42.275"W	0.00	0.00	0.00	
18726.00†	90.000	179.775	12510.00	6056.54	-6055.75	212.43	656196.31	434167.44	32°11'33.487"N	103°49'42.276"W	0.00	0.00	0.00	
18826.00†	90.000	179.775	12510.00	6156.54	-6155.75	212.82	656196.71	434067.45	32°11'32.498"N	103°49'42.277"W	0.00	0.00	0.00	
18926.00†	90.000	179.775	12510.00	6256.54	-6255.75	213.21	656197.10	433967.46	32°11'31.508"N	103°49'42.278"W	0.00	0.00	0.00	
19026.00†	90.000	179.775	12510.00	6356.54	-6355.75	213.60	656197.49	433867.47	32°11'30.519"N	103°49'42.279"W	0.00	0.00	0.00	
19126.00†	90.000	179.775	12510.00	6456.54	-6455.75	214.00	656197.88	433767.47	32°11'29.529"N	103°49'42.280"W	0.00	0.00	0.00	
19226.00†	90.000	179.775	12510.00	6556.54	-6555.75	214.39	656198.28	433667.48	32°11'28.540"N	103°49'42.280"W	0.00	0.00	0.00	
19326.00†	90.000	179.775	12510.00	6656.54	-6655.75	214.78	656198.67	433567.49	32°11'27.550"N	103°49'42.281"W	0.00	0.00	0.00	
19426.00†	90.000	179.775	12510.00	6756.54	-6755.75	215.18	656199.06	433467.49	32°11'26.560"N	103°49'42.282"W	0.00	0.00	0.00	
19526.00†	90.000	179.775	12510.00	6856.54	-6855.74	215.57	656199.45	433367.50	32°11'25.571"N	103°49'42.283"W	0.00	0.00	0.00	
19626.00†	90.000	179.775	12510.00	6956.54	-6955.74	215.96	656199.85	433267.51	32°11'24.581"N	103°49'42.284"W	0.00	0.00	0.00	
19726.00†	90.000	179.775	12510.00	7056.54	-7055.74	216.35	656200.24	433167.52	32°11'23.592"N	103°49'42.285"W	0.00	0.00	0.00	
19826.00†	90.000	179.775	12510.00	7156.54	-7155.74	216.75	656200.63	433067.52	32°11'22.602"N	103°49'42.286"W	0.00	0.00	0.00	
19926.00†	90.000	179.775	12510.00	7256.54	-7255.74	217.14	656201.03	432967.53	32°11'21.613"N	103°49'42.287"W	0.00	0.00	0.00	
20026.00†	90.000	179.775	12510.00	7356.54	-7355.74	217.53	656201.42	432867.54	32°11'20.623"N	103°49'42.288"W	0.00	0.00	0.00	
20126.00†	90.000	179.775	12510.00	7456.54	-7455.74	217.93	656201.81	432767.55	32°11'19.634"N	103°49'42.288"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 127H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 127H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 127H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 127H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (235 stations) † = interpolated/extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
20226.00†	90.000	179.775	12510.00	7556.54	-7555.74	218.32	656202.20	432667.55	32°11'18.644"N	103°49'42.289"W	0.00	0.00	0.00	
20326.00†	90.000	179.775	12510.00	7656.54	-7655.74	218.71	656202.60	432567.56	32°11'17.654"N	103°49'42.290"W	0.00	0.00	0.00	
20426.00†	90.000	179.775	12510.00	7756.54	-7755.74	219.10	656202.99	432467.57	32°11'16.665"N	103°49'42.291"W	0.00	0.00	0.00	
20526.00†	90.000	179.775	12510.00	7856.54	-7855.74	219.50	656203.38	432367.57	32°11'15.675"N	103°49'42.292"W	0.00	0.00	0.00	
20626.00†	90.000	179.775	12510.00	7956.54	-7955.74	219.89	656203.78	432267.58	32°11'14.686"N	103°49'42.293"W	0.00	0.00	0.00	
20726.00†	90.000	179.775	12510.00	8056.54	-8055.73	220.28	656204.17	432167.59	32°11'13.696"N	103°49'42.294"W	0.00	0.00	0.00	
20826.00†	90.000	179.775	12510.00	8156.54	-8155.73	220.68	656204.56	432067.60	32°11'12.707"N	103°49'42.295"W	0.00	0.00	0.00	
20926.00†	90.000	179.775	12510.00	8256.54	-8255.73	221.07	656204.95	431967.60	32°11'11.717"N	103°49'42.296"W	0.00	0.00	0.00	
21026.00†	90.000	179.775	12510.00	8356.54	-8355.73	221.46	656205.35	431867.61	32°11'10.728"N	103°49'42.296"W	0.00	0.00	0.00	
21126.00†	90.000	179.775	12510.00	8456.54	-8455.73	221.85	656205.74	431767.62	32°11'09.738"N	103°49'42.297"W	0.00	0.00	0.00	
21226.00†	90.000	179.775	12510.00	8556.54	-8555.73	222.25	656206.13	431667.63	32°11'08.749"N	103°49'42.298"W	0.00	0.00	0.00	
21326.00†	90.000	179.775	12510.00	8656.54	-8655.73	222.64	656206.53	431567.63	32°11'07.759"N	103°49'42.299"W	0.00	0.00	0.00	
21426.00†	90.000	179.775	12510.00	8756.54	-8755.73	223.03	656206.92	431467.64	32°11'06.769"N	103°49'42.300"W	0.00	0.00	0.00	
21526.00†	90.000	179.775	12510.00	8856.54	-8855.73	223.43	656207.31	431367.65	32°11'05.780"N	103°49'42.301"W	0.00	0.00	0.00	
21626.00†	90.000	179.775	12510.00	8956.54	-8955.73	223.82	656207.70	431267.65	32°11'04.790"N	103°49'42.302"W	0.00	0.00	0.00	
21726.00†	90.000	179.775	12510.00	9056.54	-9055.73	224.21	656208.10	431167.66	32°11'03.801"N	103°49'42.303"W	0.00	0.00	0.00	
21826.00†	90.000	179.775	12510.00	9156.54	-9155.73	224.60	656208.49	431067.67	32°11'02.811"N	103°49'42.304"W	0.00	0.00	0.00	
21926.00†	90.000	179.775	12510.00	9256.54	-9255.73	225.00	656208.88	430967.68	32°11'01.822"N	103°49'42.304"W	0.00	0.00	0.00	
22026.00†	90.000	179.775	12510.00	9356.54	-9355.72	225.39	656209.27	430867.68	32°11'00.832"N	103°49'42.305"W	0.00	0.00	0.00	
22126.00†	90.000	179.775	12510.00	9456.54	-9455.72	225.78	656209.67	430767.69	32°10'59.843"N	103°49'42.306"W	0.00	0.00	0.00	
22226.00†	90.000	179.775	12510.00	9556.54	-9555.72	226.18	656210.06	430667.70	32°10'58.853"N	103°49'42.307"W	0.00	0.00	0.00	
22326.00†	90.000	179.775	12510.00	9656.54	-9655.72	226.57	656210.45	430567.71	32°10'57.863"N	103°49'42.308"W	0.00	0.00	0.00	
22426.00†	90.000	179.775	12510.00	9756.54	-9755.72	226.96	656210.85	430467.71	32°10'56.874"N	103°49'42.309"W	0.00	0.00	0.00	
22526.00†	90.000	179.775	12510.00	9856.54	-9855.72	227.35	656211.24	430367.72	32°10'55.884"N	103°49'42.310"W	0.00	0.00	0.00	
22592.52	90.000	179.775	12510.00	9923.06	-9922.25	227.61	656211.50	430301.20	32°10'55.226"N	103°49'42.310"W	0.00	0.00	0.00	PBHL

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 127H
SURFACE HOLE FOOTAGE:	0442' FNL & 1179' FEL
BOTTOM HOLE FOOTAGE:	0200' FSL & 0990' FEL 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.**

3. The operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well.
4. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
5. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

1. The **18-5/8 inch** surface casing shall be set at approximately **730 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt)** and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **13-3/8 inch 1st intermediate casing** is:

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

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

9-5/8" 2nd Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing is:

Operator has proposed DV tool at depth of 4185', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage. **Excess calculates to 11% - Additional cement may be required.**

b. Second stage above DV tool:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

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

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi.**
4. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8" 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1st intermediate casing shoe shall be 10,000 (10M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the 9-5/8 intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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