

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NMOCD

JAN 09 2020

Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM030453

6. If Indian, Allottee or Tribe Name

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
POKER LAKE UNIT 13 DTD 707H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.
30-015-45828-00-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 512FNL 1179FEL
32.209213 N Lat, 103.829491 W Lon11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ 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☐ 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 recompleting 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 recompleting 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 & 1249' FEL in Sec. 25-T24S-R30E

Change target formation from WC Bone Spring (Oil) to Purple Sage; Wolfcamp (Gas)

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,

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #493140 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 (20PP0476SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 11/20/2019

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

DEC 08 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

BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

1/28/20 K5

Additional data for EC transaction #493140 that would not fit on the form

32. Additional remarks, continued

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 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

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 -45828	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 13 DTD	⁶ Well Number 707H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,473'

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		512	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	1,249	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= 440,211.6 X= 697,168.1 LAT.= 32.209215°N LONG.= 103.829490°W FIRST TAKE POINT NAD 83 NME Y= 440,393.4 X= 697,097.1 LAT.= 32.209715°N LONG.= 103.829717°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= 438,030.7 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= 430,489.5 X= 697,136.3 LAT.= 32.182491°N LONG.= 103.829740°W BOTTOM HOLE LOCATION NAD 83 NME Y= 430,359.5 X= 697,136.8 LAT.= 32.182133°N LONG.= 103.829740°W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 440,152.8 X= 655,984.1 LAT.= 32.209091°N LONG.= 103.829005°W FIRST TAKE POINT NAD 27 NME Y= 440,334.6 X= 655,913.1 LAT.= 32.209592°N LONG.= 103.829232°W LAST TAKE POINT NAD 27 NME Y= 430,430.9 X= 655,952.0 LAT.= 32.182367°N LONG.= 103.829256°W BOTTOM HOLE LOCATION NAD 27 NME Y= 430,300.9 X= 655,952.5 LAT.= 32.182010°N LONG.= 103.829257°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 2018010162	

Intent ☒ As Drilled ☐

API #
30-015-45828

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 13 DTD	Well Number 707H
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Kick Off Point (KOP)

UL A	Section 24	Township 24S	Range 30E	Lot	Feet 512	From N/S North	Feet 1179	From E/W East	County Eddy
Latitude 32.209215					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 1249	From E/W East	County Eddy
Latitude 32.209715					Longitude -103.829717			NAD NAD83	

Last Take Point (LTP)

UL P	Section 25	Township 24S	Range 30E	Lot	Feet 330	From N/S South	Feet 1249	From E/W East	County Eddy
Latitude 32.182491					Longitude -103.829740			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 707H
Projected TD: 21821' MD / 11729' TVD
SHL: 512' FNL & 1179' FWL , Section 24, T24S, R30E
BHL: 200' FSL & 1249' FWL , Section 25, T24S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	479'	Water
Top of Salt	929'	Water
Base of Salt	4059'	Water
Delaware	4224'	Water
Bone Spring	8069'	Water/Oil/Gas
1st Bone Spring Ss	9034'	Water/Oil/Gas
2nd Bone Spring Ss	9849'	Water/Oil/Gas
3rd Bone Spring Ss	10974'	Water/Oil/Gas
Wolfcamp Shale	11419'	Water/Oil/Gas
Wolfcamp A Shale	11529'	Water/Oil/Gas
Target/Land Curve	11729'	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 @ 750' (179' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 4110' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 10299' and 9-5/8 inch casing ran and cemented 200' 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 300' 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' - 750'	18-5/8"	87.5	BTC	J-55	New	1.82	1.86	20.83
17-1/2"	0' - 4110'	13-3/8"	68	BTC	HCL-80	New	1.97	2.15	5.53
12-1/4"	0' - 10299'	9-5/8"	40	BTC	HCL-80	New	1.21	1.49	2.22
8-3/4-8-1/2"	0' - 21821'	5-1/2"	20	BTC	P-110	New	1.18	1.58	2.07

XTO requests to utilize centralizers after KOP and 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" 5M top flange

B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M 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 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 +/- 750'

Lead: 600 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 +/- 4110'

Lead: 2420 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 840 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 +/- 10299'
ECP/DV Tool to be set at 4160'

1st Stage

Lead: 1110 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft³/sx, 9.61 gal/sx water)

Tail: 380 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: 1710 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 +/- 21821'

Lead: 110 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 1233 psi.

Once the permanent wellhead is installed the blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril, and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4434 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 13-3/8" and 9-5/8" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be

kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 750'	24"	FW/Native	8.4-8.8	35-40	NC
750' to 4110'	17-1/2"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
4110' to 10299'	12-1/4"	FW / Cut Brine	8.8-9.2	29-32	NC - 20
10299' to 21821'	8-3/4-8-1/2"	FW / Cut Brine / Polymer / OBM	11.2-12	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 24" surface casing with brine solution. A 9.8ppg-10.2 ppg 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

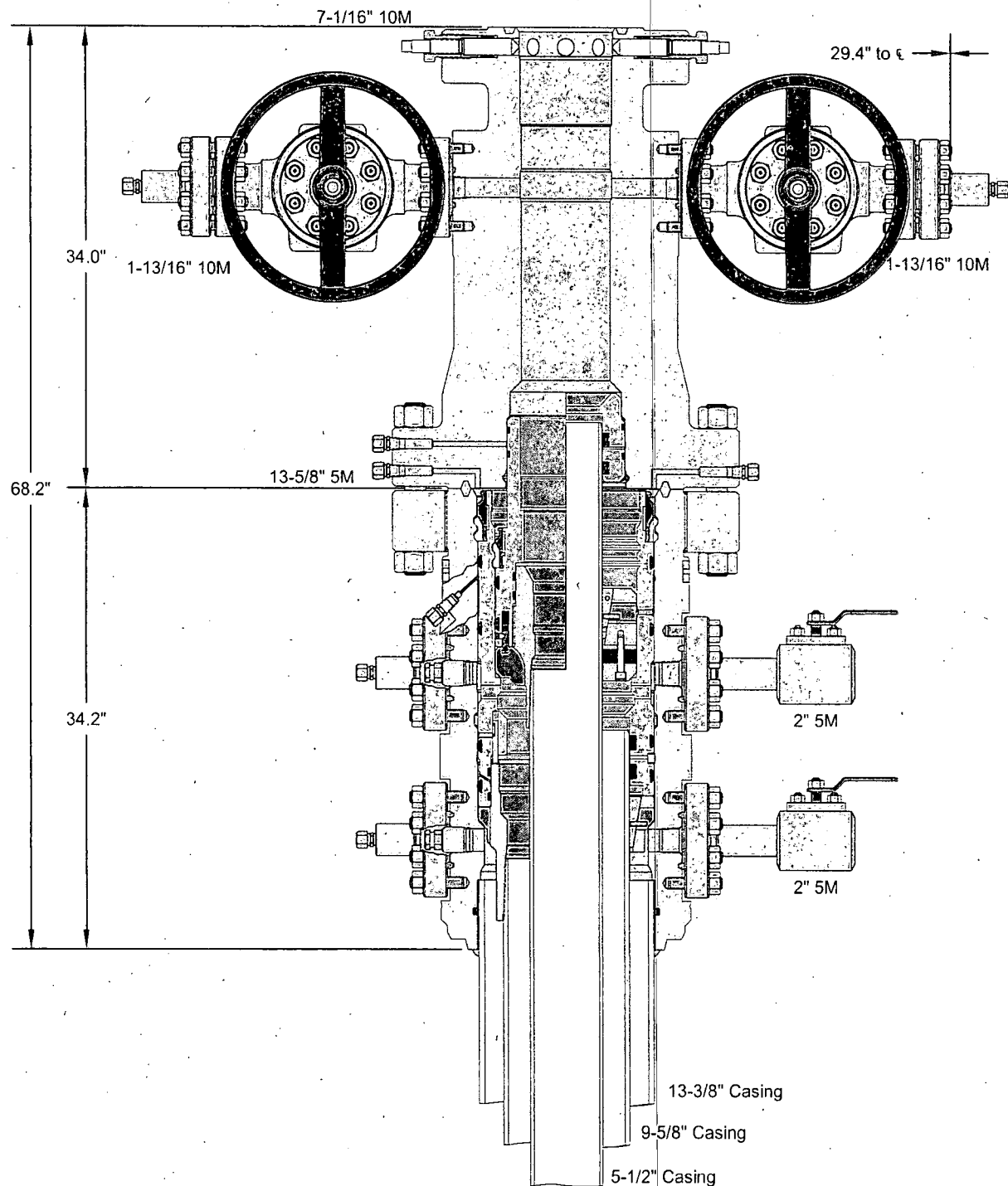
None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 7014 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

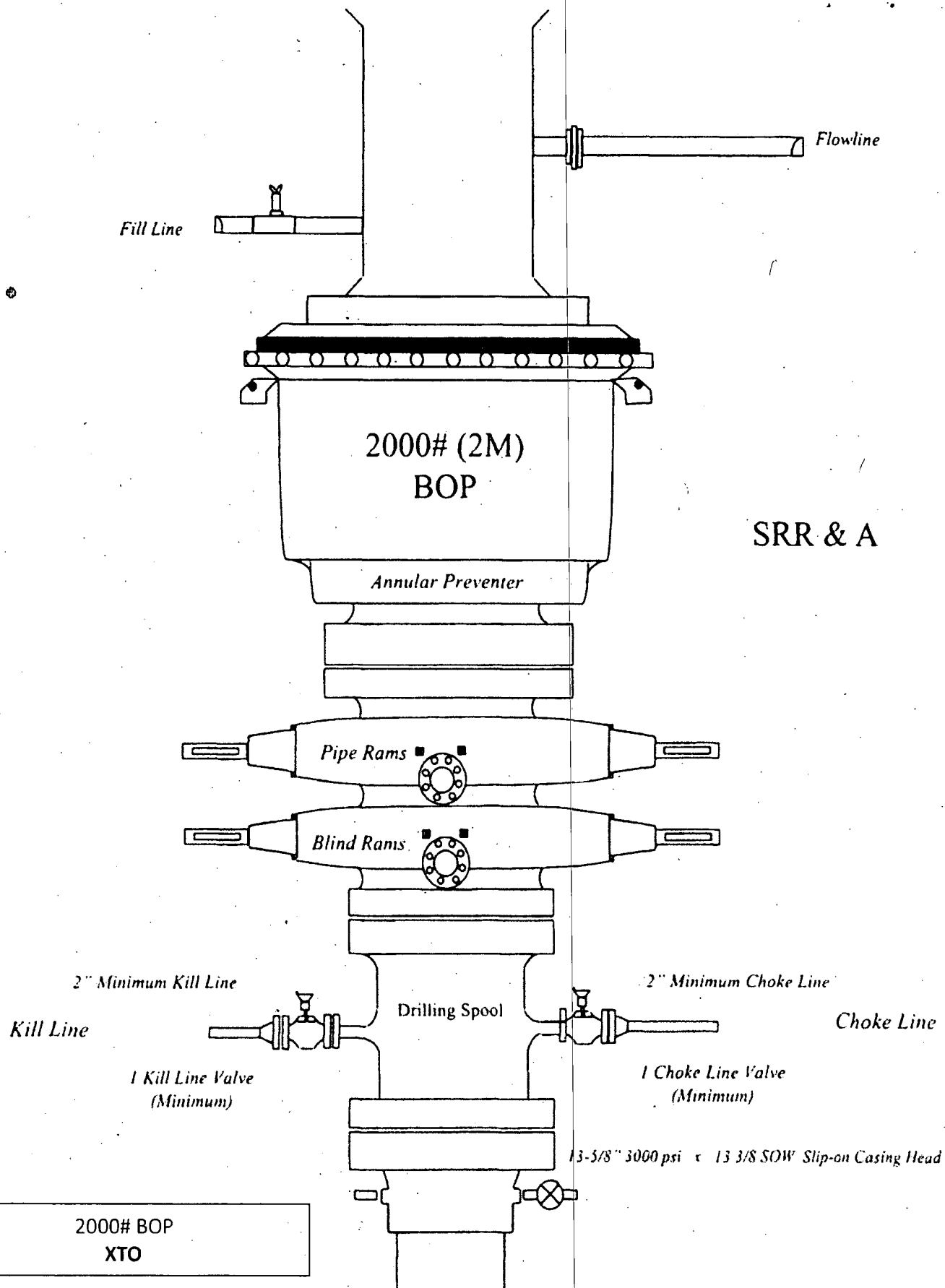
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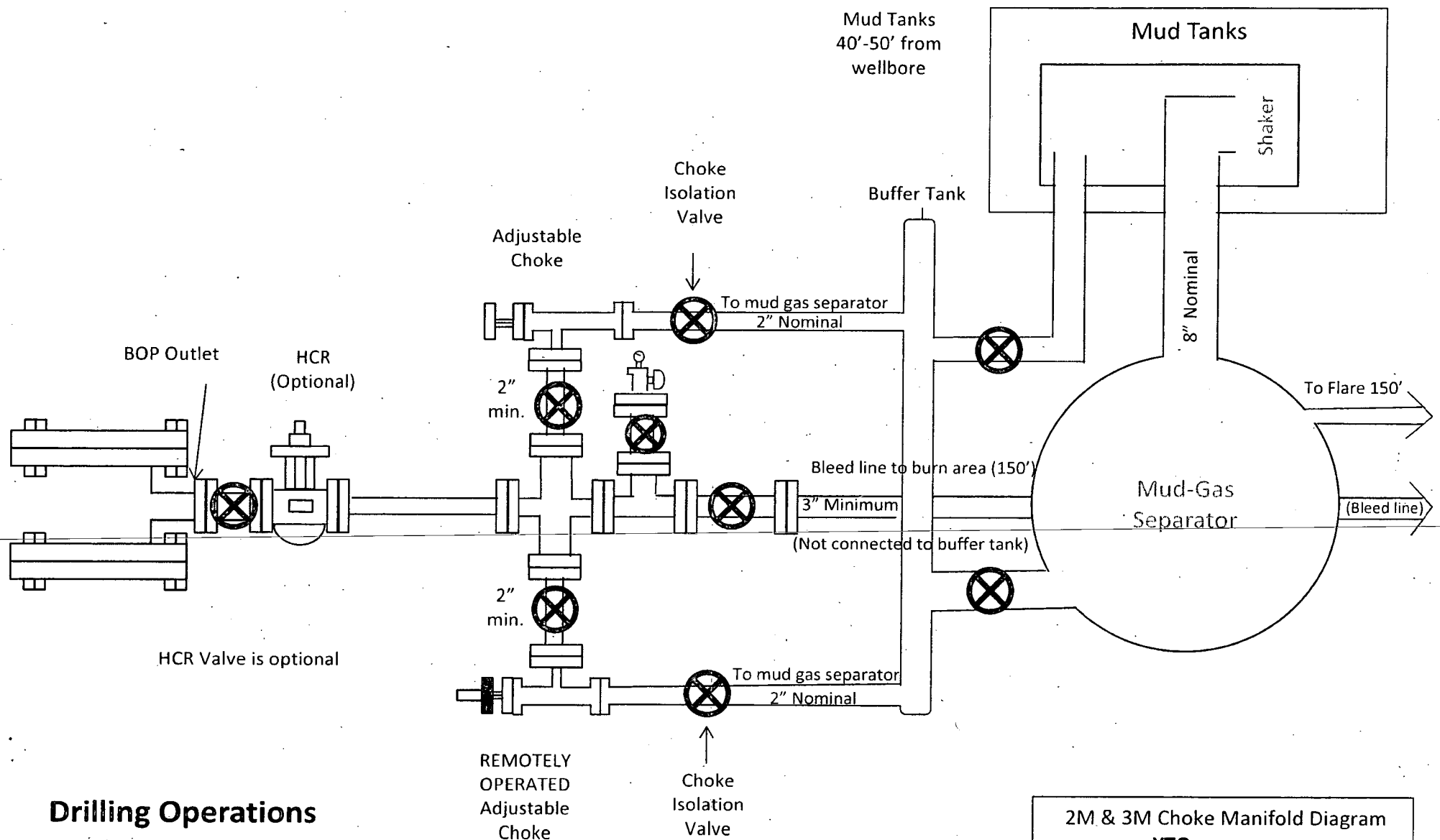
APPRV KN 16FEB17

FOR REFERENCE ONLY

DRAWING NO.

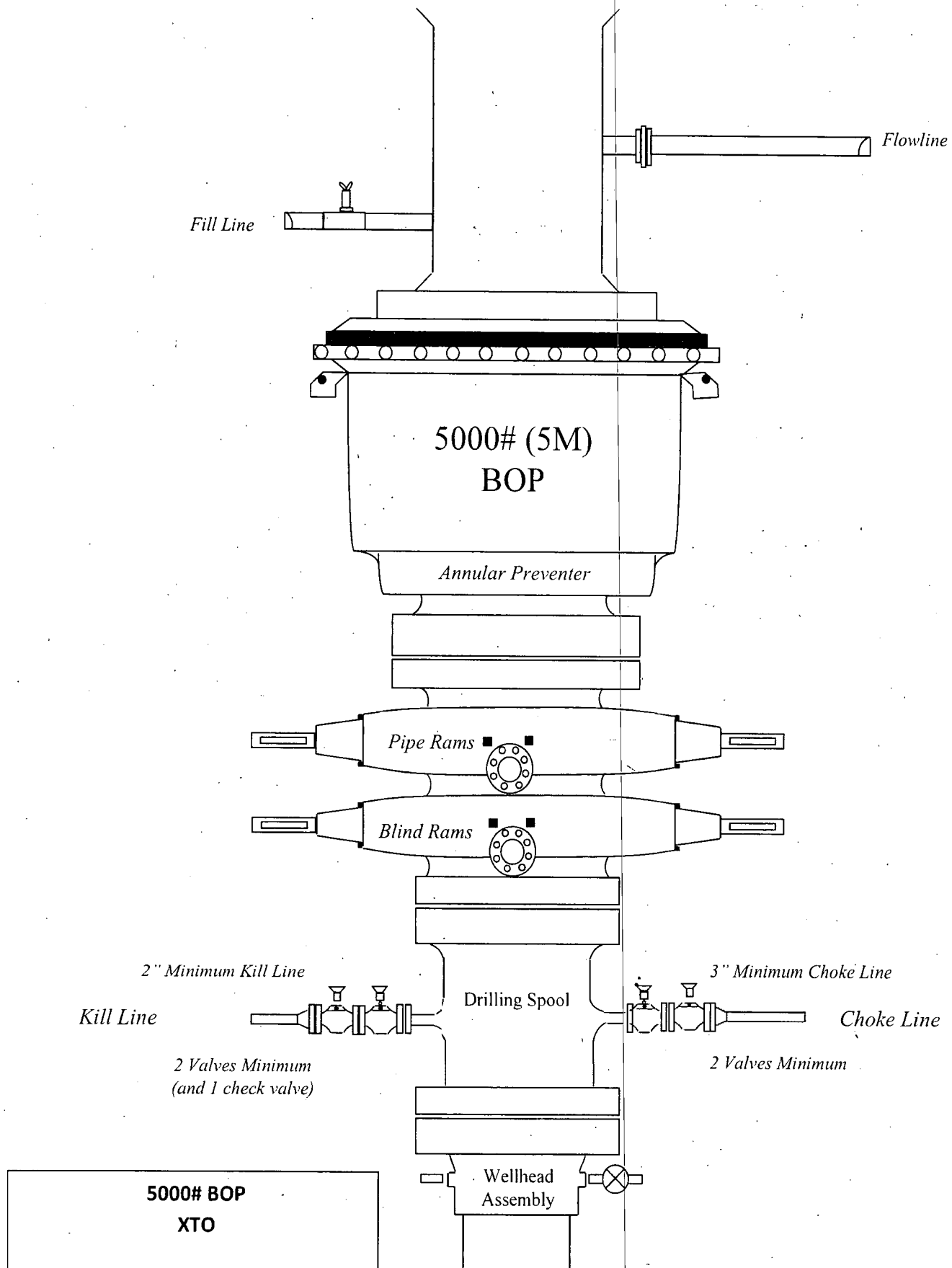
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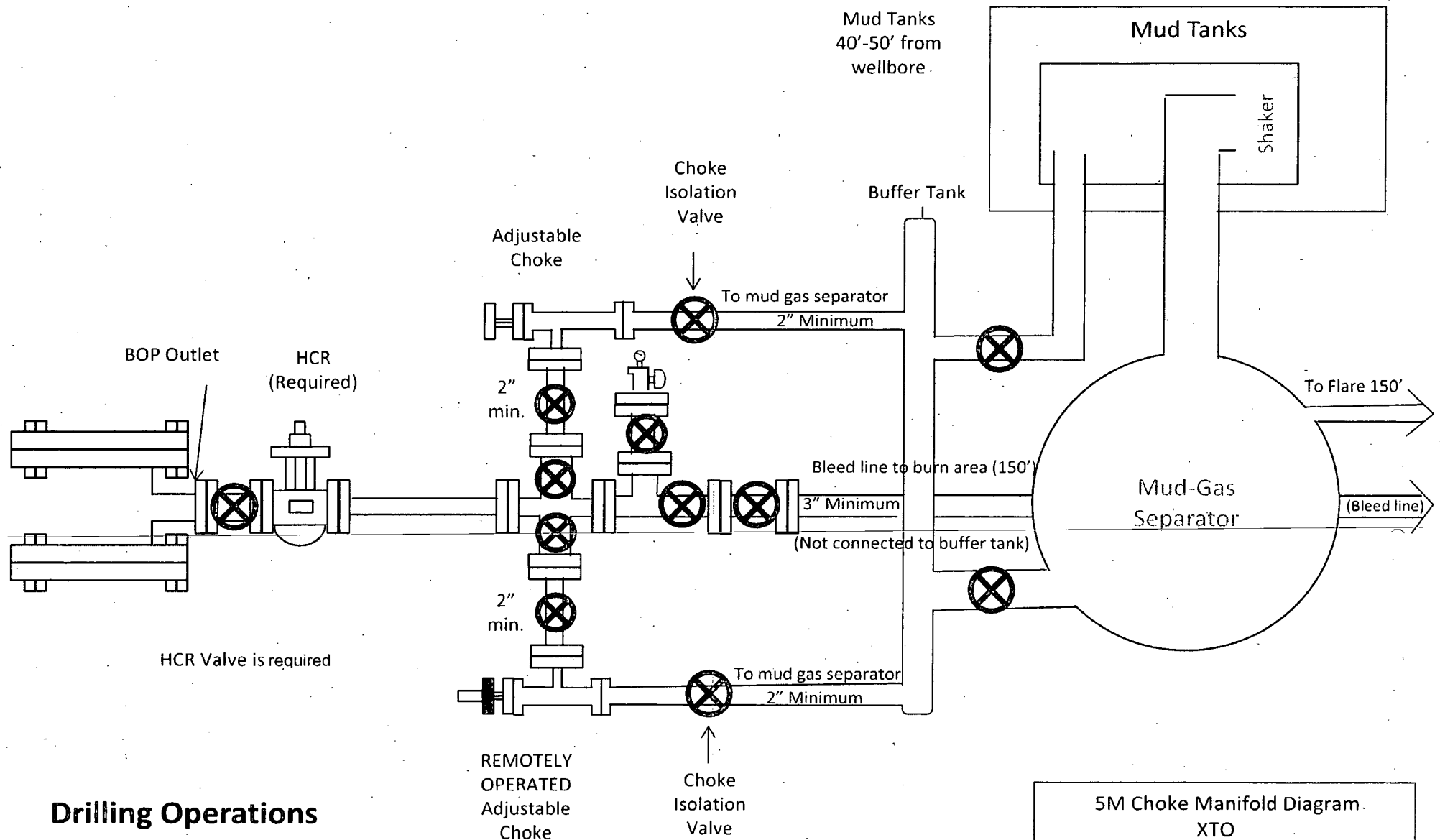




Drilling Operations Choke Manifold 2M & 3M Service

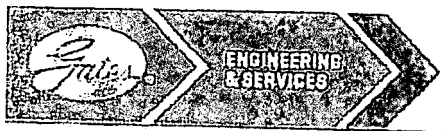
2M & 3M Choke Manifold Diagram
XTO





Drilling Operations **Choke Manifold** **5M Service**

5M Choke Manifold Diagram.
 XTO



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

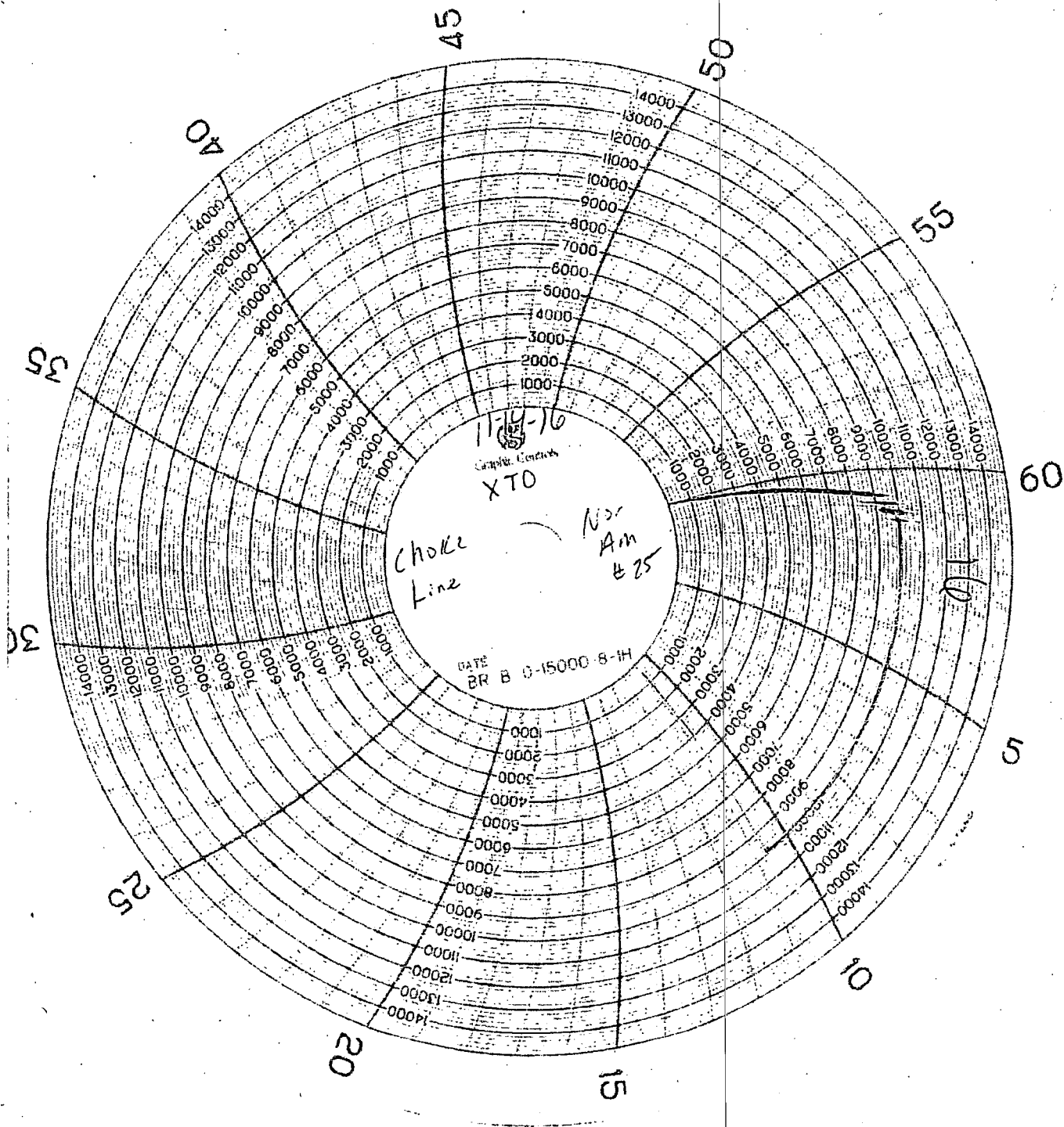
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in. SK FLG	End Fitting 2 :	4 1/16 in. SK FLG
Gates Part No. :	4774-5001	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. 2 1/2"

LENGTH 42 ft

END 1

4 1/16" SKEW

END 2

4 1/16" SKEW

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

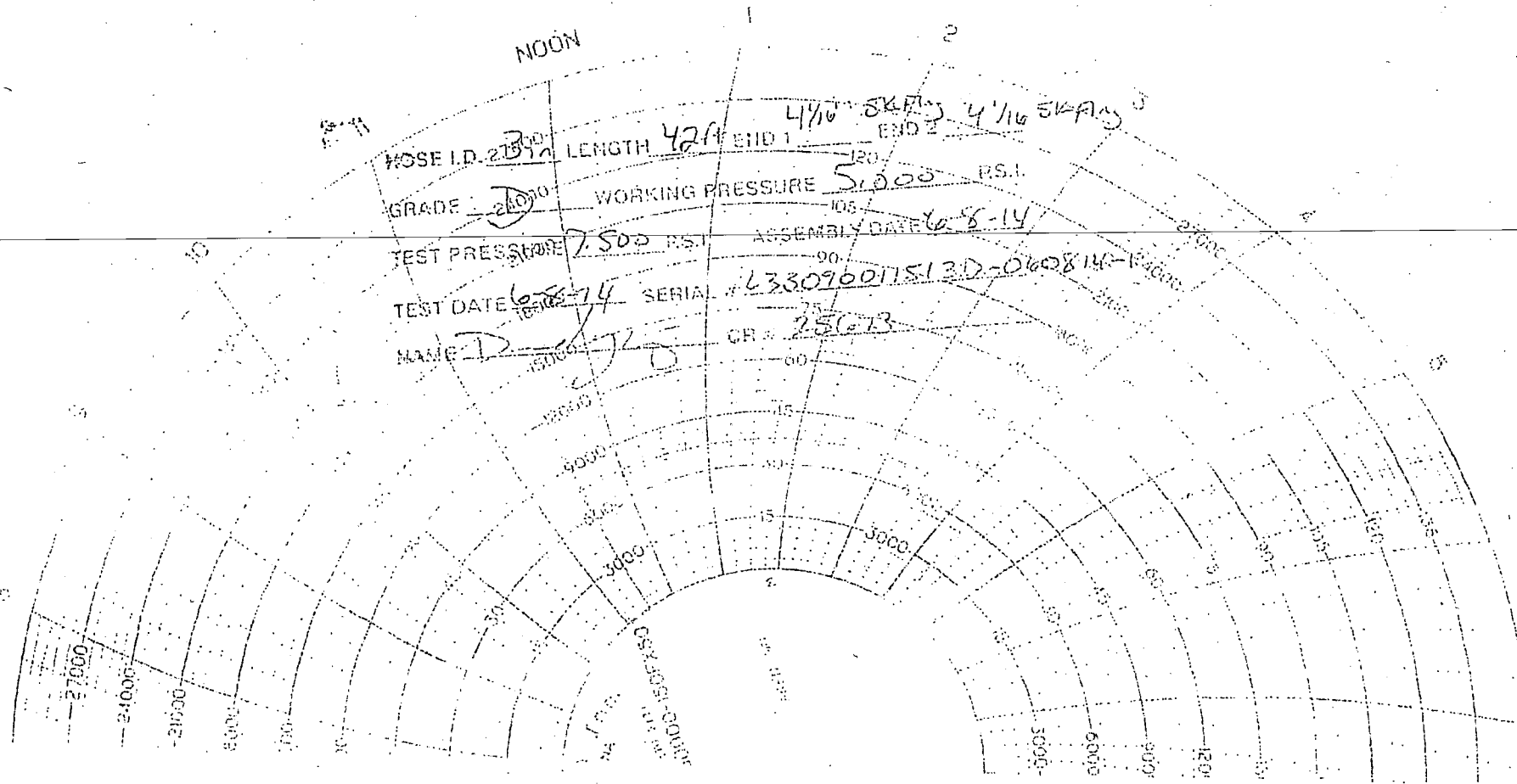
TESTER

SERIAL

633090071513D-060814-14000

NAME D-725

CR 25013





XTO Energy Inc.

Location: Eddy County, NM
Field: Wolfcamp (Eddy Co., NM)
Facility: Poker Lake Unit 13 QTD Pad 3

Slot: PLU 13 Dog Town Draw No. 707H
Well: PLU 13 Dog Town Draw No. 707H
Wellbore: PLU 13 Dog Town Draw No. 707H PV/B

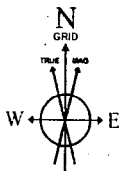


Well Name: PLU 13 Dog Town Draw No. 707H	Wellbore: PLU 13 Dog Town Draw No. 707H PV/B
Well Type: Horizontal	Well Status: Active
Well Depth: 11,156.04 ft	Well Completion: 11,156.04 ft
Well Completion Date: 11/15/2019	Well Completion By: Baker Hughes

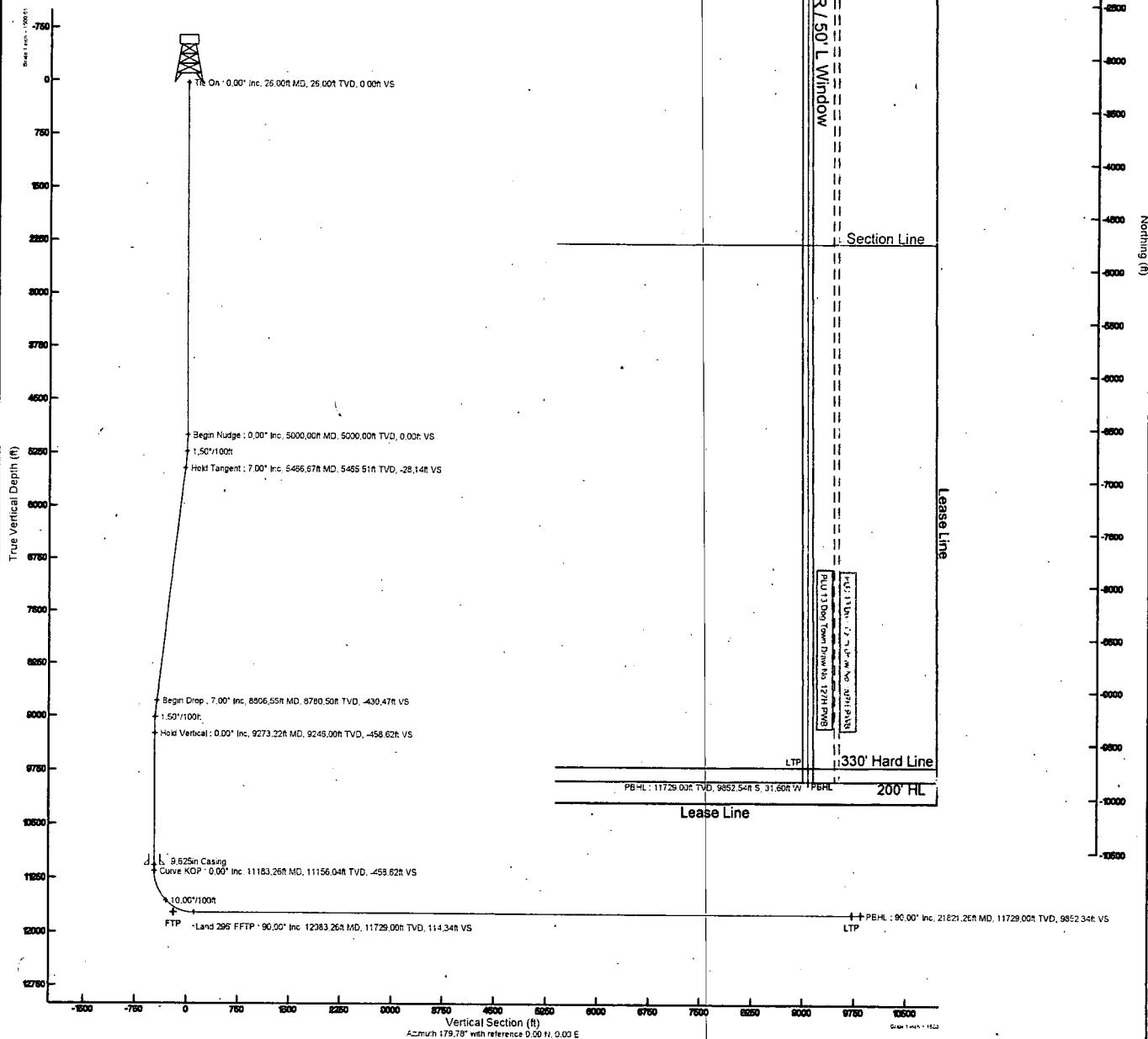
Location Information	Well Information	Wellbore Information
Well Name: PLU 13 Dog Town Draw No. 707H	Well Type: Horizontal	Well Status: Active
Well Depth: 11,156.04 ft	Well Completion: 11,156.04 ft	Well Completion Date: 11/15/2019
Well Completion By: Baker Hughes		

Well Profile Data	Wellbore Information
Well Name: PLU 13 Dog Town Draw No. 707H	Well Type: Horizontal
Well Depth: 11,156.04 ft	Well Completion: 11,156.04 ft
Well Completion Date: 11/15/2019	Well Completion By: Baker Hughes

Bottom Hole Location	Targets
Well Name: PLU 13 Dog Town Draw No. 707H	Well Type: Horizontal
Well Depth: 11,156.04 ft	Well Completion: 11,156.04 ft
Well Completion Date: 11/15/2019	Well Completion By: Baker Hughes



BGGM (1900.0 to 2020.0) Dip: 59.90° Field: 47651.8 nT
Magnetic North is 6.80 degrees East of True North (at 15/Nov/2019)
Grid North is 0.27 degrees East of True North
To correct azimuth from True to Grid subtract 0.27 degrees
To correct azimuth from Magnetic to Grid add 6.52 degrees





Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H 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 08:12
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	-70.00	0.20	655984.10	440152.80	32°12'32.728"N	103°49'44.419"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	3499.00ft
Horizontal Reference Pt	Slot	Ensign 121 (KB) to Mean Sea Level	3499.00ft
Vertical Reference Pt	Ensign 121 (KB)	Ensign 121 (KB) to Ground Level at Slot (PLU 13 Dog Town Draw No. 707H)	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. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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	351.061	0.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
26.00	0.000	351.061	26.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	Tie On	
126.00†	0.000	351.061	126.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
226.00†	0.000	351.061	226.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
326.00†	0.000	351.061	326.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
426.00†	0.000	351.061	426.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
526.00†	0.000	351.061	526.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
626.00†	0.000	351.061	626.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
726.00†	0.000	351.061	726.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
826.00†	0.000	351.061	826.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
926.00†	0.000	351.061	926.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1026.00†	0.000	351.061	1026.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1126.00†	0.000	351.061	1126.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1226.00†	0.000	351.061	1226.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1326.00†	0.000	351.061	1326.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1426.00†	0.000	351.061	1426.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1526.00†	0.000	351.061	1526.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1626.00†	0.000	351.061	1626.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1726.00†	0.000	351.061	1726.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1826.00†	0.000	351.061	1826.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
1926.00†	0.000	351.061	1926.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2026.00†	0.000	351.061	2026.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2126.00†	0.000	351.061	2126.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2226.00†	0.000	351.061	2226.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2326.00†	0.000	351.061	2326.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2426.00†	0.000	351.061	2426.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2526.00†	0.000	351.061	2526.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2626.00†	0.000	351.061	2626.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2726.00†	0.000	351.061	2726.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		
2826.00†	0.000	351.061	2826.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00		



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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	351.061	2926.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3026.00†	0.000	351.061	3026.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3126.00†	0.000	351.061	3126.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3226.00†	0.000	351.061	3226.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3326.00†	0.000	351.061	3326.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3426.00†	0.000	351.061	3426.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3526.00†	0.000	351.061	3526.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3626.00†	0.000	351.061	3626.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3726.00†	0.000	351.061	3726.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3826.00†	0.000	351.061	3826.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
3926.00†	0.000	351.061	3926.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4026.00†	0.000	351.061	4026.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4126.00†	0.000	351.061	4126.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4226.00†	0.000	351.061	4226.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4326.00†	0.000	351.061	4326.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4426.00†	0.000	351.061	4426.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4526.00†	0.000	351.061	4526.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4626.00†	0.000	351.061	4626.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4726.00†	0.000	351.061	4726.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4826.00†	0.000	351.061	4826.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
4926.00†	0.000	351.061	4926.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	
5000.00	0.000	351.061	5000.00	0.00	0.00	0.00	655984.10	440152.80	32°12'32.728"N	103°49'44.419"W	0.00	0.00	0.00	Begin Nudge
5026.00†	0.390	351.061	5026.00	-0.09	0.09	-0.01	655984.09	440152.89	32°12'32.729"N	103°49'44.419"W	1.50	1.50	-34.38	
5126.00†	1.890	351.061	5125.98	-2.05	2.05	-0.32	655983.78	440154.85	32°12'32.749"N	103°49'44.422"W	1.50	1.50	0.00	
5226.00†	3.390	351.061	5225.87	-6.61	6.60	-1.04	655983.06	440159.40	32°12'32.794"N	103°49'44.430"W	1.50	1.50	0.00	
5326.00†	4.890	351.061	5325.60	-13.74	13.73	-2.16	655981.94	440166.53	32°12'32.864"N	103°49'44.443"W	1.50	1.50	0.00	
5426.00†	6.390	351.061	5425.12	-23.46	23.44	-3.69	655980.41	440176.24	32°12'32.961"N	103°49'44.460"W	1.50	1.50	0.00	
5466.67	7.000	351.061	5465.51	-28.14	28.13	-4.42	655979.68	440180.92	32°12'33.007"N	103°49'44.469"W	1.50	1.50	0.00	Hold Tangent
5526.00†	7.000	351.061	5524.40	-35.29	35.27	-5.55	655978.55	440188.07	32°12'33.078"N	103°49'44.481"W	0.00	0.00	0.00	
5626.00†	7.000	351.061	5623.65	-47.34	47.31	-7.44	655976.66	440200.10	32°12'33.197"N	103°49'44.503"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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	351.061	5722.91	-59.38	59.35	-9.33	655974.77	440212.14	32°12'33.316"N	103°49'44.524"W	0.00	0.00	0.00	
5826.00†	7.000	351.061	5822.16	-71.43	71.39	-11.23	655972.87	440224.18	32°12'33.435"N	103°49'44.546"W	0.00	0.00	0.00	
5926.00†	7.000	351.061	5921.42	-83.48	83.42	-13.12	655970.98	440236.22	32°12'33.555"N	103°49'44.567"W	0.00	0.00	0.00	
6026.00†	7.000	351.061	6020.67	-95.52	95.46	-15.02	655969.09	440248.26	32°12'33.674"N	103°49'44.588"W	0.00	0.00	0.00	
6126.00†	7.000	351.061	6119.93	-107.57	107.50	-16.91	655967.19	440260.30	32°12'33.793"N	103°49'44.610"W	0.00	0.00	0.00	
6226.00†	7.000	351.061	6219.18	-119.61	119.54	-18.80	655965.30	440272.33	32°12'33.912"N	103°49'44.631"W	0.00	0.00	0.00	
6326.00†	7.000	351.061	6318.43	-131.66	131.58	-20.70	655963.40	440284.37	32°12'34.031"N	103°49'44.652"W	0.00	0.00	0.00	
6426.00†	7.000	351.061	6417.69	-143.71	143.62	-22.59	655961.51	440296.41	32°12'34.151"N	103°49'44.674"W	0.00	0.00	0.00	
6526.00†	7.000	351.061	6516.94	-155.75	155.66	-24.48	655959.62	440308.45	32°12'34.270"N	103°49'44.695"W	0.00	0.00	0.00	
6626.00†	7.000	351.061	6616.20	-167.80	167.70	-26.38	655957.72	440320.49	32°12'34.389"N	103°49'44.717"W	0.00	0.00	0.00	
6726.00†	7.000	351.061	6715.45	-179.85	179.74	-28.27	655955.83	440332.52	32°12'34.508"N	103°49'44.738"W	0.00	0.00	0.00	
6826.00†	7.000	351.061	6814.71	-191.89	191.77	-30.16	655953.94	440344.56	32°12'34.628"N	103°49'44.759"W	0.00	0.00	0.00	
6926.00†	7.000	351.061	6913.96	-203.94	203.81	-32.06	655952.04	440356.60	32°12'34.747"N	103°49'44.781"W	0.00	0.00	0.00	
7026.00†	7.000	351.061	7013.22	-215.98	215.85	-33.95	655950.15	440368.64	32°12'34.866"N	103°49'44.802"W	0.00	0.00	0.00	
7126.00†	7.000	351.061	7112.47	-228.03	227.89	-35.85	655948.26	440380.68	32°12'34.985"N	103°49'44.824"W	0.00	0.00	0.00	
7226.00†	7.000	351.061	7211.73	-240.08	239.93	-37.74	655946.36	440392.71	32°12'35.104"N	103°49'44.845"W	0.00	0.00	0.00	
7326.00†	7.000	351.061	7310.98	-252.12	251.97	-39.63	655944.47	440404.75	32°12'35.224"N	103°49'44.866"W	0.00	0.00	0.00	
7426.00†	7.000	351.061	7410.24	-264.17	264.01	-41.53	655942.58	440416.79	32°12'35.343"N	103°49'44.888"W	0.00	0.00	0.00	
7526.00†	7.000	351.061	7509.49	-276.22	276.05	-43.42	655940.68	440428.83	32°12'35.462"N	103°49'44.909"W	0.00	0.00	0.00	
7626.00†	7.000	351.061	7608.74	-288.26	288.09	-45.31	655938.79	440440.87	32°12'35.581"N	103°49'44.930"W	0.00	0.00	0.00	
7726.00†	7.000	351.061	7708.00	-300.31	300.13	-47.21	655936.90	440452.91	32°12'35.700"N	103°49'44.952"W	0.00	0.00	0.00	
7826.00†	7.000	351.061	7807.25	-312.35	312.16	-49.10	655935.00	440464.94	32°12'35.820"N	103°49'44.973"W	0.00	0.00	0.00	
7926.00†	7.000	351.061	7906.51	-324.40	324.20	-50.99	655933.11	440476.98	32°12'35.939"N	103°49'44.995"W	0.00	0.00	0.00	
8026.00†	7.000	351.061	8005.76	-336.45	336.24	-52.89	655931.22	440489.02	32°12'36.058"N	103°49'45.016"W	0.00	0.00	0.00	
8126.00†	7.000	351.061	8105.02	-348.49	348.28	-54.78	655929.32	440501.06	32°12'36.177"N	103°49'45.037"W	0.00	0.00	0.00	
8226.00†	7.000	351.061	8204.27	-360.54	360.32	-56.68	655927.43	440513.10	32°12'36.297"N	103°49'45.059"W	0.00	0.00	0.00	
8326.00†	7.000	351.061	8303.53	-372.59	372.36	-58.57	655925.53	440525.13	32°12'36.416"N	103°49'45.080"W	0.00	0.00	0.00	
8426.00†	7.000	351.061	8402.78	-384.63	384.40	-60.46	655923.64	440537.17	32°12'36.535"N	103°49'45.101"W	0.00	0.00	0.00	
8526.00†	7.000	351.061	8502.04	-396.68	396.44	-62.36	655921.75	440549.21	32°12'36.654"N	103°49'45.123"W	0.00	0.00	0.00	
8626.00†	7.000	351.061	8601.29	-408.72	408.48	-64.25	655919.85	440561.25	32°12'36.773"N	103°49'45.144"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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
8726.00†	7.000	351.061	8700.55	-420.77	420.51	-66.14	655917.96	440573.29	32°12'36.893"N	103°49'45.166"W	0.00	0.00	0.00	
8806.55	7.000	351.061	8780.50	-430.47	430.21	-67.67	655916.44	440582.98	32°12'36.989"N	103°49'45.183"W	0.00	0.00	0.00	Begin Drop
8826.00†	6.708	351.061	8799.81	-432.77	432.50	-68.03	655916.07	440585.28	32°12'37.011"N	103°49'45.187"W	1.50	-1.50	0.00	
8926.00†	5.208	351.061	8899.26	-443.03	442.76	-69.64	655914.46	440595.53	32°12'37.113"N	103°49'45.205"W	1.50	-1.50	0.00	
9026.00†	3.708	351.061	8998.96	-450.71	450.44	-70.85	655913.25	440603.21	32°12'37.189"N	103°49'45.219"W	1.50	-1.50	0.00	
9126.00†	2.208	351.061	9098.82	-455.81	455.54	-71.65	655912.45	440608.31	32°12'37.239"N	103°49'45.228"W	1.50	-1.50	0.00	
9226.00†	0.708	351.061	9198.79	-458.33	458.05	-72.05	655912.06	440610.82	32°12'37.264"N	103°49'45.232"W	1.50	-1.50	0.00	
9273.22	0.000	179.775	9246.00	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	1.50	-1.50	18.93	Hold Vertical
9326.00†	0.000	179.775	9298.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
9426.00†	0.000	179.775	9398.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
9526.00†	0.000	179.775	9498.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
9626.00†	0.000	179.775	9598.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
9726.00†	0.000	179.775	9698.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
9826.00†	0.000	179.775	9798.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
9926.00†	0.000	179.775	9898.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10026.00†	0.000	179.775	9998.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10126.00†	0.000	179.775	10098.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10226.00†	0.000	179.775	10198.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10326.00†	0.000	179.775	10298.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10426.00†	0.000	179.775	10398.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10526.00†	0.000	179.775	10498.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10626.00†	0.000	179.775	10598.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10726.00†	0.000	179.775	10698.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10826.00†	0.000	179.775	10798.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
10926.00†	0.000	179.775	10898.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
11026.00†	0.000	179.775	10998.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
11126.00†	0.000	179.775	11098.78	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	
11183.26	0.000	179.775	11156.04	-458.62	458.34	-72.09	655912.01	440611.11	32°12'37.267"N	103°49'45.233"W	0.00	0.00	0.00	Curve KOP
11226.00†	4.274	179.775	11198.75	-457.02	456.74	-72.09	655912.02	440609.51	32°12'37.251"N	103°49'45.233"W	10.00	10.00	420.60	
11326.00†	14.274	179.775	11297.31	-440.93	440.65	-72.02	655912.08	440593.42	32°12'37.092"N	103°49'45.233"W	10.00	10.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim
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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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
11426.00†	24.274	179.775	11391.59	-407.96	407.68	-71.89	655912.21	440560.46	32°12'36.766"N	103°49'45.233"W	10.00	10.00	0.00	
11526.00†	34.274	179.775	11478.71	-359.12	358.84	-71.70	655912.40	440511.62	32°12'36.283"N	103°49'45.234"W	10.00	10.00	0.00	
11626.00†	44.274	179.775	11556.02	-295.90	295.62	-71.45	655912.65	440448.40	32°12'35.657"N	103°49'45.234"W	10.00	10.00	0.00	
11726.00†	54.274	179.775	11621.18	-220.21	219.94	-71.16	655912.95	440372.72	32°12'34.908"N	103°49'45.235"W	10.00	10.00	0.00	
11826.00†	64.274	179.775	11672.21	-134.36	134.08	-70.82	655913.28	440286.87	32°12'34.059"N	103°49'45.236"W	10.00	10.00	0.00	
11926.00†	74.274	179.775	11707.55	-40.95	40.67	-70.45	655913.65	440193.47	32°12'33.134"N	103°49'45.236"W	10.00	10.00	0.00	
12026.00†	84.274	179.775	11726.14	57.18	-57.45	-70.07	655914.04	440095.35	32°12'32.163"N	103°49'45.237"W	10.00	10.00	0.00	
12083.26	90.000	179.775	11729.00	114.34	-114.62	-69.84	655914.26	440038.19	32°12'31.598"N	103°49'45.238"W	10.00	10.00	0.00	Land 296' FFTP
12126.00†	90.000	179.775	11729.00	157.08	-157.36	-69.68	655914.43	439995.45	32°12'31.175"N	103°49'45.238"W	0.00	0.00	0.00	
12226.00†	90.000	179.775	11729.00	257.08	-257.36	-69.28	655914.82	439895.46	32°12'30.185"N	103°49'45.239"W	0.00	0.00	0.00	
12326.00†	90.000	179.775	11729.00	357.08	-357.36	-68.89	655915.21	439795.47	32°12'29.195"N	103°49'45.240"W	0.00	0.00	0.00	
12426.00†	90.000	179.775	11729.00	457.08	-457.36	-68.50	655915.61	439695.47	32°12'28.206"N	103°49'45.241"W	0.00	0.00	0.00	
12526.00†	90.000	179.775	11729.00	557.08	-557.36	-68.10	655916.00	439595.48	32°12'27.216"N	103°49'45.242"W	0.00	0.00	0.00	
12626.00†	90.000	179.775	11729.00	657.08	-657.35	-67.71	655916.39	439495.49	32°12'26.227"N	103°49'45.243"W	0.00	0.00	0.00	
12726.00†	90.000	179.775	11729.00	757.08	-757.35	-67.32	655916.79	439395.50	32°12'25.237"N	103°49'45.244"W	0.00	0.00	0.00	
12826.00†	90.000	179.775	11729.00	857.08	-857.35	-66.93	655917.18	439295.50	32°12'24.248"N	103°49'45.244"W	0.00	0.00	0.00	
12926.00†	90.000	179.775	11729.00	957.08	-957.35	-66.53	655917.57	439195.51	32°12'23.258"N	103°49'45.245"W	0.00	0.00	0.00	
13026.00†	90.000	179.775	11729.00	1057.08	-1057.35	-66.14	655917.96	439095.52	32°12'22.269"N	103°49'45.246"W	0.00	0.00	0.00	
13126.00†	90.000	179.775	11729.00	1157.08	-1157.35	-65.75	655918.36	438995.52	32°12'21.279"N	103°49'45.247"W	0.00	0.00	0.00	
13226.00†	90.000	179.775	11729.00	1257.08	-1257.35	-65.36	655918.75	438895.53	32°12'20.290"N	103°49'45.248"W	0.00	0.00	0.00	
13326.00†	90.000	179.775	11729.00	1357.08	-1357.35	-64.96	655919.14	438795.54	32°12'19.300"N	103°49'45.249"W	0.00	0.00	0.00	
13426.00†	90.000	179.775	11729.00	1457.08	-1457.35	-64.57	655919.53	438695.55	32°12'18.310"N	103°49'45.250"W	0.00	0.00	0.00	
13526.00†	90.000	179.775	11729.00	1557.08	-1557.35	-64.18	655919.93	438595.55	32°12'17.321"N	103°49'45.251"W	0.00	0.00	0.00	
13626.00†	90.000	179.775	11729.00	1657.08	-1657.35	-63.78	655920.32	438495.56	32°12'16.331"N	103°49'45.252"W	0.00	0.00	0.00	
13726.00†	90.000	179.775	11729.00	1757.08	-1757.35	-63.39	655920.71	438395.57	32°12'15.342"N	103°49'45.252"W	0.00	0.00	0.00	
13826.00†	90.000	179.775	11729.00	1857.08	-1857.35	-63.00	655921.10	438295.58	32°12'14.352"N	103°49'45.253"W	0.00	0.00	0.00	
13926.00†	90.000	179.775	11729.00	1957.08	-1957.34	-62.61	655921.50	438195.58	32°12'13.363"N	103°49'45.254"W	0.00	0.00	0.00	
14026.00†	90.000	179.775	11729.00	2057.08	-2057.34	-62.21	655921.89	438095.59	32°12'12.373"N	103°49'45.255"W	0.00	0.00	0.00	
14126.00†	90.000	179.775	11729.00	2157.08	-2157.34	-61.82	655922.28	437995.60	32°12'11.384"N	103°49'45.256"W	0.00	0.00	0.00	
14226.00†	90.000	179.775	11729.00	2257.08	-2257.34	-61.43	655922.68	437895.60	32°12'10.394"N	103°49'45.257"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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
14326.00†	90.000	179.775	11729.00	2357.08	-2357.34	-61.04	655923.07	437795.61	32°12'09.404"N	103°49'45.258"W	0.00	0.00	0.00	
14426.00†	90.000	179.775	11729.00	2457.08	-2457.34	-60.64	655923.46	437695.62	32°12'08.415"N	103°49'45.259"W	0.00	0.00	0.00	
14526.00†	90.000	179.775	11729.00	2557.08	-2557.34	-60.25	655923.85	437595.63	32°12'07.425"N	103°49'45.260"W	0.00	0.00	0.00	
14626.00†	90.000	179.775	11729.00	2657.08	-2657.34	-59.86	655924.25	437495.63	32°12'06.436"N	103°49'45.260"W	0.00	0.00	0.00	
14726.00†	90.000	179.775	11729.00	2757.08	-2757.34	-59.46	655924.64	437395.64	32°12'05.446"N	103°49'45.261"W	0.00	0.00	0.00	
14826.00†	90.000	179.775	11729.00	2857.08	-2857.34	-59.07	655925.03	437295.65	32°12'04.457"N	103°49'45.262"W	0.00	0.00	0.00	
14926.00†	90.000	179.775	11729.00	2957.08	-2957.34	-58.68	655925.42	437195.66	32°12'03.467"N	103°49'45.263"W	0.00	0.00	0.00	
15026.00†	90.000	179.775	11729.00	3057.08	-3057.34	-58.29	655925.82	437095.66	32°12'02.478"N	103°49'45.264"W	0.00	0.00	0.00	
15126.00†	90.000	179.775	11729.00	3157.08	-3157.34	-57.89	655926.21	436995.67	32°12'01.488"N	103°49'45.265"W	0.00	0.00	0.00	
15226.00†	90.000	179.775	11729.00	3257.08	-3257.33	-57.50	655926.60	436895.68	32°12'00.499"N	103°49'45.266"W	0.00	0.00	0.00	
15326.00†	90.000	179.775	11729.00	3357.08	-3357.33	-57.11	655926.99	436795.68	32°11'59.509"N	103°49'45.267"W	0.00	0.00	0.00	
15426.00†	90.000	179.775	11729.00	3457.08	-3457.33	-56.72	655927.39	436695.69	32°11'58.519"N	103°49'45.268"W	0.00	0.00	0.00	
15526.00†	90.000	179.775	11729.00	3557.08	-3557.33	-56.32	655927.78	436595.70	32°11'57.530"N	103°49'45.268"W	0.00	0.00	0.00	
15626.00†	90.000	179.775	11729.00	3657.08	-3657.33	-55.93	655928.17	436495.71	32°11'56.540"N	103°49'45.269"W	0.00	0.00	0.00	
15726.00†	90.000	179.775	11729.00	3757.08	-3757.33	-55.54	655928.57	436395.71	32°11'55.551"N	103°49'45.270"W	0.00	0.00	0.00	
15826.00†	90.000	179.775	11729.00	3857.08	-3857.33	-55.15	655928.96	436295.72	32°11'54.561"N	103°49'45.271"W	0.00	0.00	0.00	
15926.00†	90.000	179.775	11729.00	3957.08	-3957.33	-54.75	655929.35	436195.73	32°11'53.572"N	103°49'45.272"W	0.00	0.00	0.00	
16026.00†	90.000	179.775	11729.00	4057.08	-4057.33	-54.36	655929.74	436095.74	32°11'52.582"N	103°49'45.273"W	0.00	0.00	0.00	
16126.00†	90.000	179.775	11729.00	4157.08	-4157.33	-53.97	655930.14	435995.74	32°11'51.593"N	103°49'45.274"W	0.00	0.00	0.00	
16226.00†	90.000	179.775	11729.00	4257.08	-4257.33	-53.57	655930.53	435895.75	32°11'50.603"N	103°49'45.275"W	0.00	0.00	0.00	
16326.00†	90.000	179.775	11729.00	4357.08	-4357.33	-53.18	655930.92	435795.76	32°11'49.613"N	103°49'45.275"W	0.00	0.00	0.00	
16426.00†	90.000	179.775	11729.00	4457.08	-4457.33	-52.79	655931.31	435695.76	32°11'48.624"N	103°49'45.276"W	0.00	0.00	0.00	
16526.00†	90.000	179.775	11729.00	4557.08	-4557.32	-52.40	655931.71	435595.77	32°11'47.634"N	103°49'45.277"W	0.00	0.00	0.00	
16626.00†	90.000	179.775	11729.00	4657.08	-4657.32	-52.00	655932.10	435495.78	32°11'46.645"N	103°49'45.278"W	0.00	0.00	0.00	
16726.00†	90.000	179.775	11729.00	4757.08	-4757.32	-51.61	655932.49	435395.79	32°11'45.655"N	103°49'45.279"W	0.00	0.00	0.00	
16826.00†	90.000	179.775	11729.00	4857.08	-4857.32	-51.22	655932.88	435295.79	32°11'44.666"N	103°49'45.280"W	0.00	0.00	0.00	
16926.00†	90.000	179.775	11729.00	4957.08	-4957.32	-50.83	655933.28	435195.80	32°11'43.676"N	103°49'45.281"W	0.00	0.00	0.00	
17026.00†	90.000	179.775	11729.00	5057.08	-5057.32	-50.43	655933.67	435095.81	32°11'42.687"N	103°49'45.282"W	0.00	0.00	0.00	
17126.00†	90.000	179.775	11729.00	5157.08	-5157.32	-50.04	655934.06	434995.82	32°11'41.697"N	103°49'45.283"W	0.00	0.00	0.00	
17226.00†	90.000	179.775	11729.00	5257.08	-5257.32	-49.65	655934.46	434895.82	32°11'40.708"N	103°49'45.283"W	0.00	0.00	0.00	



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim
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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 stations) † = interpolated/extrapolated station

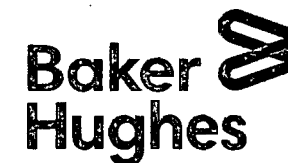
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
17326.00†	90.000	179.775	11729.00	5357.08	-5357.32	-49.25	655934.85	434795.83	32°11'39.718"N	103°49'45.284"W	0.00	0.00	0.00	
17426.00†	90.000	179.775	11729.00	5457.08	-5457.32	-48.86	655935.24	434695.84	32°11'38.728"N	103°49'45.285"W	0.00	0.00	0.00	
17526.00†	90.000	179.775	11729.00	5557.08	-5557.32	-48.47	655935.63	434595.84	32°11'37.739"N	103°49'45.286"W	0.00	0.00	0.00	
17626.00†	90.000	179.775	11729.00	5657.08	-5657.32	-48.08	655936.03	434495.85	32°11'36.749"N	103°49'45.287"W	0.00	0.00	0.00	
17726.00†	90.000	179.775	11729.00	5757.08	-5757.31	-47.68	655936.42	434395.86	32°11'35.760"N	103°49'45.288"W	0.00	0.00	0.00	
17826.00†	90.000	179.775	11729.00	5857.08	-5857.31	-47.29	655936.81	434295.87	32°11'34.770"N	103°49'45.289"W	0.00	0.00	0.00	
17926.00†	90.000	179.775	11729.00	5957.08	-5957.31	-46.90	655937.20	434195.87	32°11'33.781"N	103°49'45.290"W	0.00	0.00	0.00	
18026.00†	90.000	179.775	11729.00	6057.08	-6057.31	-46.51	655937.60	434095.88	32°11'32.791"N	103°49'45.291"W	0.00	0.00	0.00	
18126.00†	90.000	179.775	11729.00	6157.08	-6157.31	-46.11	655937.99	433995.89	32°11'31.802"N	103°49'45.291"W	0.00	0.00	0.00	
18226.00†	90.000	179.775	11729.00	6257.08	-6257.31	-45.72	655938.38	433895.90	32°11'30.812"N	103°49'45.292"W	0.00	0.00	0.00	
18326.00†	90.000	179.775	11729.00	6357.08	-6357.31	-45.33	655938.78	433795.90	32°11'29.822"N	103°49'45.293"W	0.00	0.00	0.00	
18426.00†	90.000	179.775	11729.00	6457.08	-6457.31	-44.94	655939.17	433695.91	32°11'28.833"N	103°49'45.294"W	0.00	0.00	0.00	
18526.00†	90.000	179.775	11729.00	6557.08	-6557.31	-44.54	655939.56	433595.92	32°11'27.843"N	103°49'45.295"W	0.00	0.00	0.00	
18626.00†	90.000	179.775	11729.00	6657.08	-6657.31	-44.15	655939.95	433495.92	32°11'26.854"N	103°49'45.296"W	0.00	0.00	0.00	
18726.00†	90.000	179.775	11729.00	6757.08	-6757.31	-43.76	655940.35	433395.93	32°11'25.864"N	103°49'45.297"W	0.00	0.00	0.00	
18826.00†	90.000	179.775	11729.00	6857.08	-6857.31	-43.36	655940.74	433295.94	32°11'24.875"N	103°49'45.298"W	0.00	0.00	0.00	
18926.00†	90.000	179.775	11729.00	6957.08	-6957.31	-42.97	655941.13	433195.95	32°11'23.885"N	103°49'45.298"W	0.00	0.00	0.00	
19026.00†	90.000	179.775	11729.00	7057.08	-7057.30	-42.58	655941.52	433095.95	32°11'22.896"N	103°49'45.299"W	0.00	0.00	0.00	
19126.00†	90.000	179.775	11729.00	7157.08	-7157.30	-42.19	655941.92	432995.96	32°11'21.906"N	103°49'45.300"W	0.00	0.00	0.00	
19226.00†	90.000	179.775	11729.00	7257.08	-7257.30	-41.79	655942.31	432895.97	32°11'20.917"N	103°49'45.301"W	0.00	0.00	0.00	
19326.00†	90.000	179.775	11729.00	7357.08	-7357.30	-41.40	655942.70	432795.98	32°11'19.927"N	103°49'45.302"W	0.00	0.00	0.00	
19426.00†	90.000	179.775	11729.00	7457.08	-7457.30	-41.01	655943.09	432695.98	32°11'18.937"N	103°49'45.303"W	0.00	0.00	0.00	
19526.00†	90.000	179.775	11729.00	7557.08	-7557.30	-40.62	655943.49	432595.99	32°11'17.948"N	103°49'45.304"W	0.00	0.00	0.00	
19626.00†	90.000	179.775	11729.00	7657.08	-7657.30	-40.22	655943.88	432496.00	32°11'16.958"N	103°49'45.305"W	0.00	0.00	0.00	
19726.00†	90.000	179.775	11729.00	7757.08	-7757.30	-39.83	655944.27	432396.00	32°11'15.969"N	103°49'45.306"W	0.00	0.00	0.00	
19826.00†	90.000	179.775	11729.00	7857.08	-7857.30	-39.44	655944.67	432296.01	32°11'14.979"N	103°49'45.306"W	0.00	0.00	0.00	
19926.00†	90.000	179.775	11729.00	7957.08	-7957.30	-39.04	655945.06	432196.02	32°11'13.990"N	103°49'45.307"W	0.00	0.00	0.00	
20026.00†	90.000	179.775	11729.00	8057.08	-8057.30	-38.65	655945.45	432096.03	32°11'13.000"N	103°49'45.308"W	0.00	0.00	0.00	
20126.00†	90.000	179.775	11729.00	8157.08	-8157.30	-38.26	655945.84	431996.03	32°11'12.011"N	103°49'45.309"W	0.00	0.00	0.00	
20226.00†	90.000	179.775	11729.00	8257.08	-8257.30	-37.87	655946.24	431896.04	32°11'11.021"N	103°49'45.310"W	0.00	0.00	0.00	



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PLU 13 Dog Town Draw No. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

WELLPATH DATA (226 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
20326.00†	90.000	179.775	11729.00	8357.08	-8357.29	-37.47	655946.63	431796.05	32°11'10.031"N	103°49'45.311"W	0.00	0.00	0.00	
20426.00†	90.000	179.775	11729.00	8457.08	-8457.29	-37.08	655947.02	431696.06	32°11'09.042"N	103°49'45.312"W	0.00	0.00	0.00	
20526.00†	90.000	179.775	11729.00	8557.08	-8557.29	-36.69	655947.41	431596.06	32°11'08.052"N	103°49'45.313"W	0.00	0.00	0.00	
20626.00†	90.000	179.775	11729.00	8657.08	-8657.29	-36.30	655947.81	431496.07	32°11'07.063"N	103°49'45.314"W	0.00	0.00	0.00	
20726.00†	90.000	179.775	11729.00	8757.08	-8757.29	-35.90	655948.20	431396.08	32°11'06.073"N	103°49'45.314"W	0.00	0.00	0.00	
20826.00†	90.000	179.775	11729.00	8857.08	-8857.29	-35.51	655948.59	431296.08	32°11'05.084"N	103°49'45.315"W	0.00	0.00	0.00	
20926.00†	90.000	179.775	11729.00	8957.08	-8957.29	-35.12	655948.98	431196.09	32°11'04.094"N	103°49'45.316"W	0.00	0.00	0.00	
21026.00†	90.000	179.775	11729.00	9057.08	-9057.29	-34.73	655949.38	431096.10	32°11'03.105"N	103°49'45.317"W	0.00	0.00	0.00	
21126.00†	90.000	179.775	11729.00	9157.08	-9157.29	-34.33	655949.77	430996.11	32°11'02.115"N	103°49'45.318"W	0.00	0.00	0.00	
21226.00†	90.000	179.775	11729.00	9257.08	-9257.29	-33.94	655950.16	430896.11	32°11'01.125"N	103°49'45.319"W	0.00	0.00	0.00	
21326.00†	90.000	179.775	11729.00	9357.08	-9357.29	-33.55	655950.56	430796.12	32°11'00.136"N	103°49'45.320"W	0.00	0.00	0.00	
21426.00†	90.000	179.775	11729.00	9457.08	-9457.29	-33.15	655950.95	430696.13	32°10'59.146"N	103°49'45.321"W	0.00	0.00	0.00	
21526.00†	90.000	179.775	11729.00	9557.08	-9557.29	-32.76	655951.34	430596.14	32°10'58.157"N	103°49'45.321"W	0.00	0.00	0.00	
21626.00†	90.000	179.775	11729.00	9657.08	-9657.28	-32.37	655951.73	430496.14	32°10'57.167"N	103°49'45.322"W	0.00	0.00	0.00	
21726.00†	90.000	179.775	11729.00	9757.08	-9757.28	-31.98	655952.13	430396.15	32°10'56.178"N	103°49'45.323"W	0.00	0.00	0.00	
21821.26	90.000	179.775	11729.00†	9852.34	-9852.54	-31.60	655952.50	430300.90	32°10'55.235"N	103°49'45.324"W	0.00	0.00	0.00	PBHL

HOLE & CASING SECTIONS - Ref Wellbore: PLU 13 Dog Town Draw No. 707H PWB Ref Wellpath: PLU 13 Dog Town Draw No. 707H Prelim									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	26.00	11101.00	11075.00	26.00	11073.78	0.00	0.00	458.34	-72.09
5.5in Casing	26.00	22140.00	22114.00	26.00	N/A	0.00	0.00	N/A	N/A



Planned Wellpath Report

PLU 13 Dog Town Draw No. 707H Prelim

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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Slot	PLU 13 Dog Town Draw No. 707H
Area	Eddy County, NM	Well	PLU 13 Dog Town Draw No. 707H
Field	Wolfcamp (Eddy Co., NM)	Wellbore	PLU 13 Dog Town Draw No. 707H PWB
Facility	Poker Lake Unit 13 DTD Pad 3		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PLU 13 Dog Town Draw No. 707H FTP		11729.00	181.81	-71.00	655913.10	440334.60	32°12'34.531"N	103°49'45.235"W	point
PLU 13 Dog Town Draw No. 707H LTP		11729.00	-9722.53	-32.10	655952.00	430430.90	32°10'56.522"N	103°49'45.323"W	point
1) PLU 13 Dog Town Draw No. 707H PBHL	21821.26	11729.00	-9852.54	-31.60	655952.50	430300.90	32°10'55.235"N	103°49'45.324"W	rectangle

SURVEY PROGRAM - Ref Wellbore: PLU 13 Dog Town Draw No. 707H PWB Ref Wellpath: PLU 13 Dog Town Draw No. 707H Prelim

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	11101.00	BHI NaviTrak (Standard)		PLU 13 Dog Town Draw No. 707H PWB
11101.00	22135.69	OWSG MWD rev2 + IFR1 + Multi-Station Correction		PLU 13 Dog Town Draw No. 707H PWB

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 707H
SURFACE HOLE FOOTAGE:	0512' FNL & 1179' FEL
BOTTOM HOLE FOOTAGE	0200' FSL & 1249' 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 750 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 4160', 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.

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 5000 (5M) 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.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

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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