

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EMNRD-OCD ARTESIA

REC'D: 4/14/2020

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM02953
2. Name of Operator XTO PERMIAN OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: KELLY KARDOS E-Mail: kelly_kardos@xtoenergy.com		7. If Unit or CA/Agreement, Name and/or No. 891000558X
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707	3b. Phone No. (include area code) Ph: 432-620-4374	8. Well Name and No. JAMES RANCH UNIT DI 8 EAGLE 110H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 36 T22S R30E SENW 1733FNL 2007FWL		9. API Well No. 30-015-46663-00-X1
		10. Field and Pool or Exploratory Area WILDCAT WOLFCAMP
		11. County or Parish, State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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 APD:

Change Name from James Ranch Unit DI 8 BS3-1E 279H to James Ranch Unit DI 8 Eagle 110H.

Change formation from Wildcat Bone Spring to Wildcat Wolfcamp.

Change SHL from 1940'FNL & 2067'FWL to 1733'FNL & 2007'FWL. No Surface Disturbance.

Change BHL from 330'FNL & 200'FEL to 660'FNL & 50'FEL.

XTO requests to not utilize centralizers in the curve and lateral.

Plat and Survey **1734**
FNL
RWP

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #501782 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 02/04/2020 (20PP1081SE)	
Name (Printed/Typed) KELLY KARDOS	Title REGULATORY COORDINATOR
Signature (Electronic Submission)	Date 02/03/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CODY LAYTON	Title ASSIST FIELD MANAGER LANDS MINERALS	Date 02/21/2020
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 ****

4/29/2020

Revisions to Operator-Submitted EC Data for Sundry Notice #501782

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM02953	NMNM02953
Agreement:		891000558X (NMNM70965X)
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: County:	NM EDDY	NM EDDY
Field/Pool:	WILDCAT BONE SPRING	WILDCAT
Well/Facility:	JAMES RANCH UNIT DI 8 BS3-1E 279H Sec 36 T22S R30E Mer NMP SENW 1940FNL 2067FWL	JAMES RANCH UNIT DI 8 EAGLE 110H Sec 36 T22S R30E SENW 1940FNL 2067FWL 32.350510 N Lat, 103.836227 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

EMNRD-OCD ARTESIA
REC'D: 4/14/2020
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 -46663	² Pool Code 96597	³ Pool Name Los Medanos Wolfcamp
⁴ Property Code 327343	⁵ Property Name JAMES RANCH UNIT DI 8 EAGLE	⁶ Well Number 110H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,317'

¹⁰ Surface Location

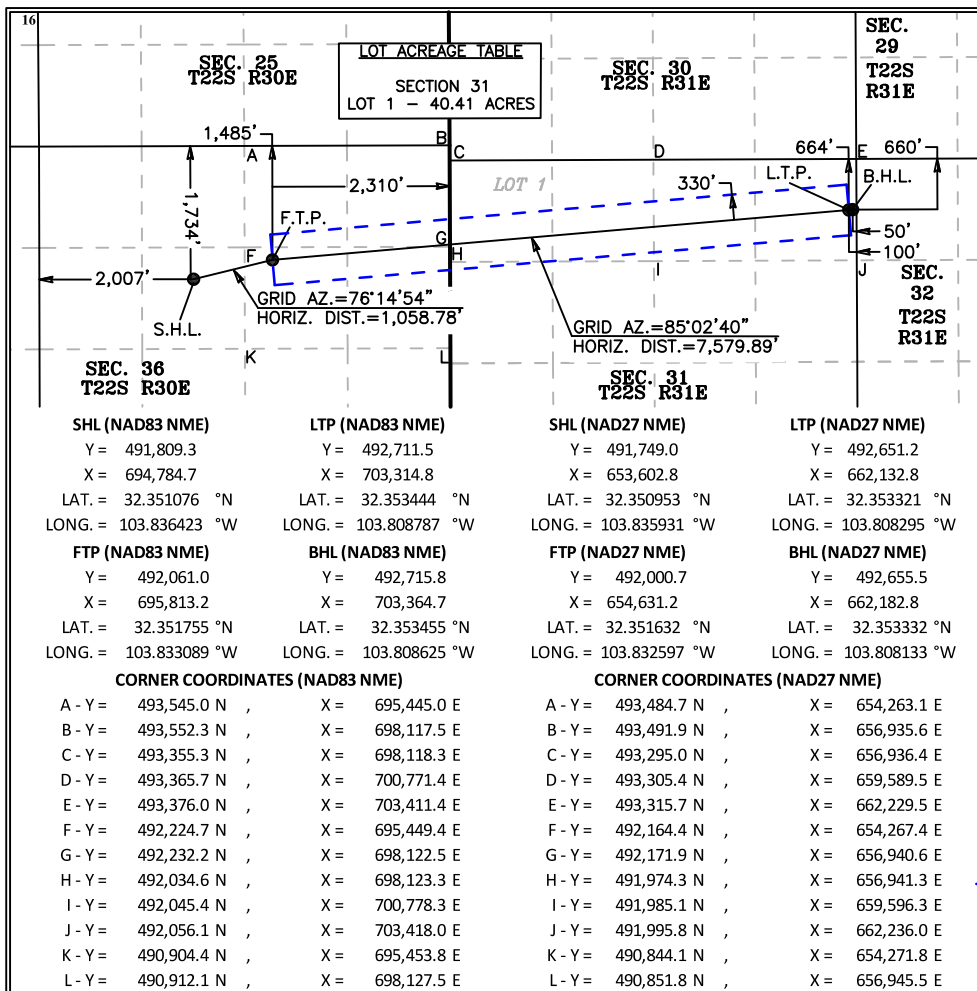
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	22 S	30 E		1,734	NORTH	2,007	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	22 S	31 E		660	NORTH	50	EAST	EDDY

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kelly Kardos

Signature Date

Printed Name

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

01-24-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number



GM/JC

2019072362

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

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

XTO Energy Inc.

James Ranch Unit DI 8 Eagle 110H

Projected TD: 19198' MD / 11044' TVD

SHL: 1733' FNL & 2007' FWL , Section 36, T22S, R30E

BHL: 660' FNL & 50' FEL , Section 31, T22S, R31E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	293'	Water
Top of Salt	600'	Water
Base of Salt	3592'	Water
Delaware	3835'	Water
Bone Spring Lime	7662'	Water
1st Bone Spring Ss	8703'	Water/Oil/Gas
2nd Bone Spring Ss	9536'	Water/Oil/Gas
3rd Bone Spring Carb	9819'	Water/Oil/Gas
3rd Bone Spring Ss	10540'	Water/Oil/Gas
Wolfcamp	10952'	Water/Oil/Gas
Target/Land Curve	11044'	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 @ 575' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8" inch casing at 3642' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 9-5/8" inch casing at 8059' and cemented 200' into the 13-3/8 inch casing. A 8-3/4" inch curve and lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 7559 feet) per Potash regulations.

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 575'	18-5/8"	87.5	STC	H-40	New	1.47	2.42	11.11
17-1/2"	0' – 3642'	13-3/8"	68	STC	J-55	New	1.66	1.73	2.73
12-1/4"	0' – 8059'	9-5/8"	40	LTC	HCL-80	New	1.71	1.83	2.26
8-3/4"	0' – 19198'	5-1/2"	17	BTC	P-110	New	1.01	1.29	2.37

- XTO requests to not utilize centralizers in the curve and lateral
- 18-5/8" Collapse analyzed using 75% evacuation. Casing to be filled while running.
- 13-3/8" Collapse analyzed using 50% evacuation based on regional experience.
- 9-5/8" Collapse analyzed using 33% 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 & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Temporary Wellhead

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

· Permanent Wellhead – GE RSH Multibowl System

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

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 BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New H-40, STC casing to be set at +/- 575'

Lead: 360 sxs EconoCem-HLTRRC (mixed at 12.9 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

Two additional 1" top out jobs will be attempted after the surface cement job. If the top of cement is not affected by the two top out jobs, ~10-20 ppb gravel will be added on the backside of the 1" to attempt to get cement to surface.

1st Intermediate Casing: 13-3/8", 68 New J-55, STC casing to be set at +/- 3642'

Lead: 2480 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

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

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

Top of Cement: Surface

2nd Intermediate Casing: 9-5/8", 40 New HCL-80, LTC casing to be set at +/- 8059'

ECP/DV Tool to be set at 3742'

1st Stage

Lead: 1270 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

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

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

2nd Stage

Lead: 60 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

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

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

Top of Cement: 200' inside previous casing shoe

Production Casing: 5-1/2", 17 New P-110, BTC casing to be set at +/- 19198'

Tail: 1870 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water) Top of Cement: 7559 feet

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

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 1112 psi.

Once the permanent WH is installed on the 13-3/8" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3371 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

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 13-3/8", 5M bradenhead and flange, the BOP test will be limited to 5M psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 5M 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' - 575'	24"	FW/Native	8.4-8.8	35-40	NC
575' - 3642'	17-1/2"	Brine	9.8-10.2	30-32	NC
3642' to 8059'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
8059' to 19198'	8-3/4"	Cut Brine / Polymer	9.8 - 10.1	29-32	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 18-5/8" surface casing with brine solution. A 9.8 ppg -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 intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

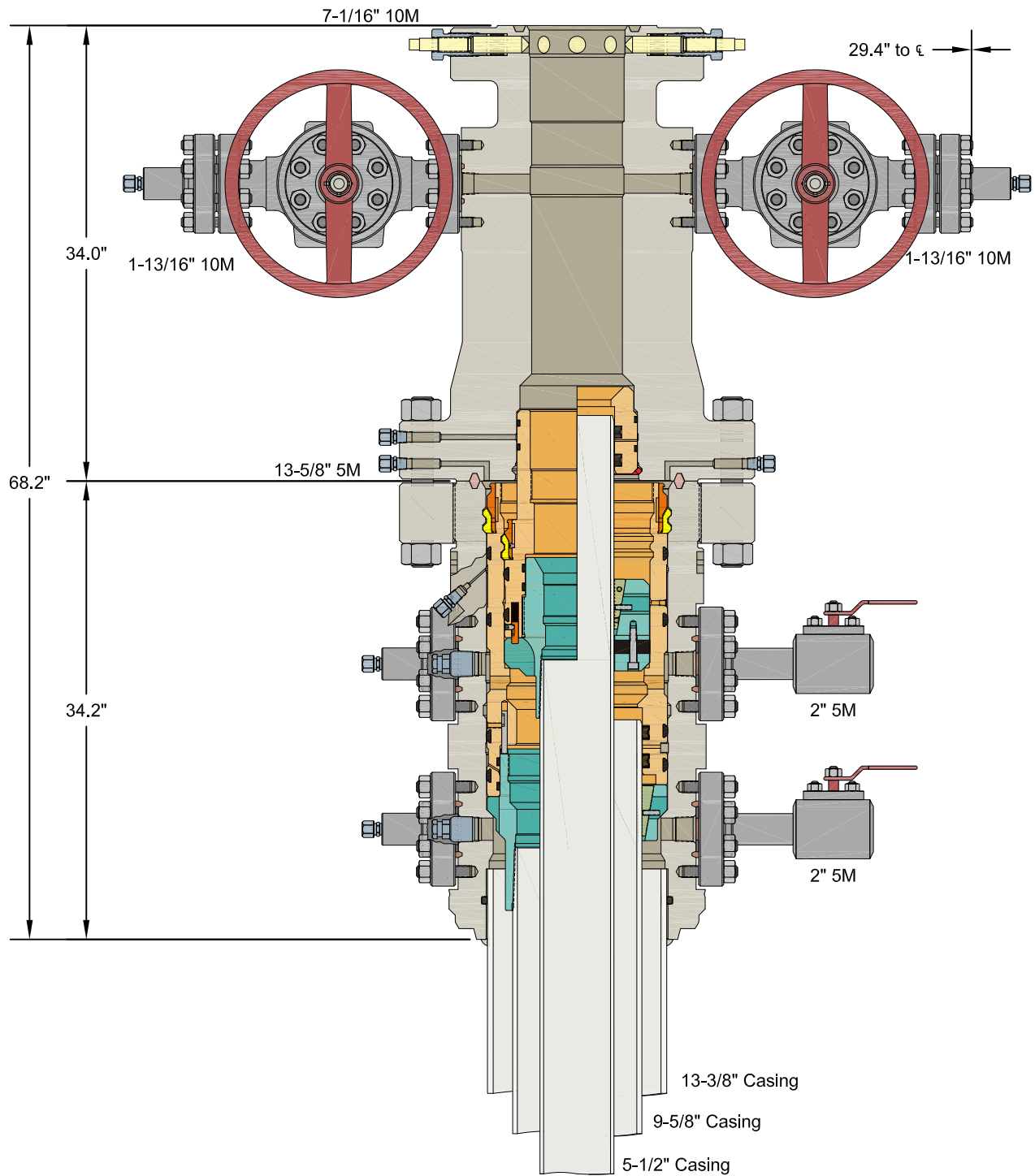
None Anticipated. BHT of 175 to 195 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 5800 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.

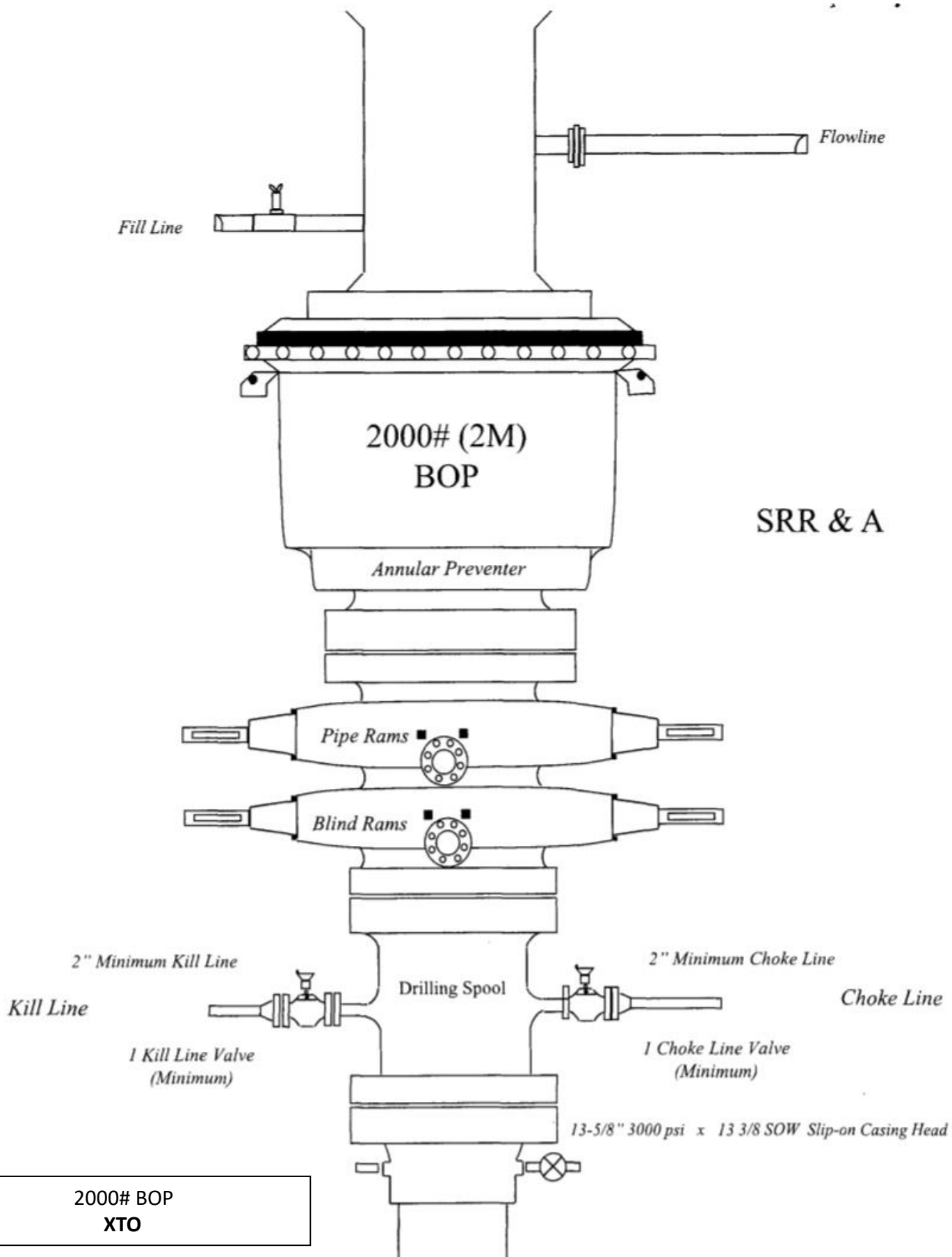
XTO ENERGY, INC.

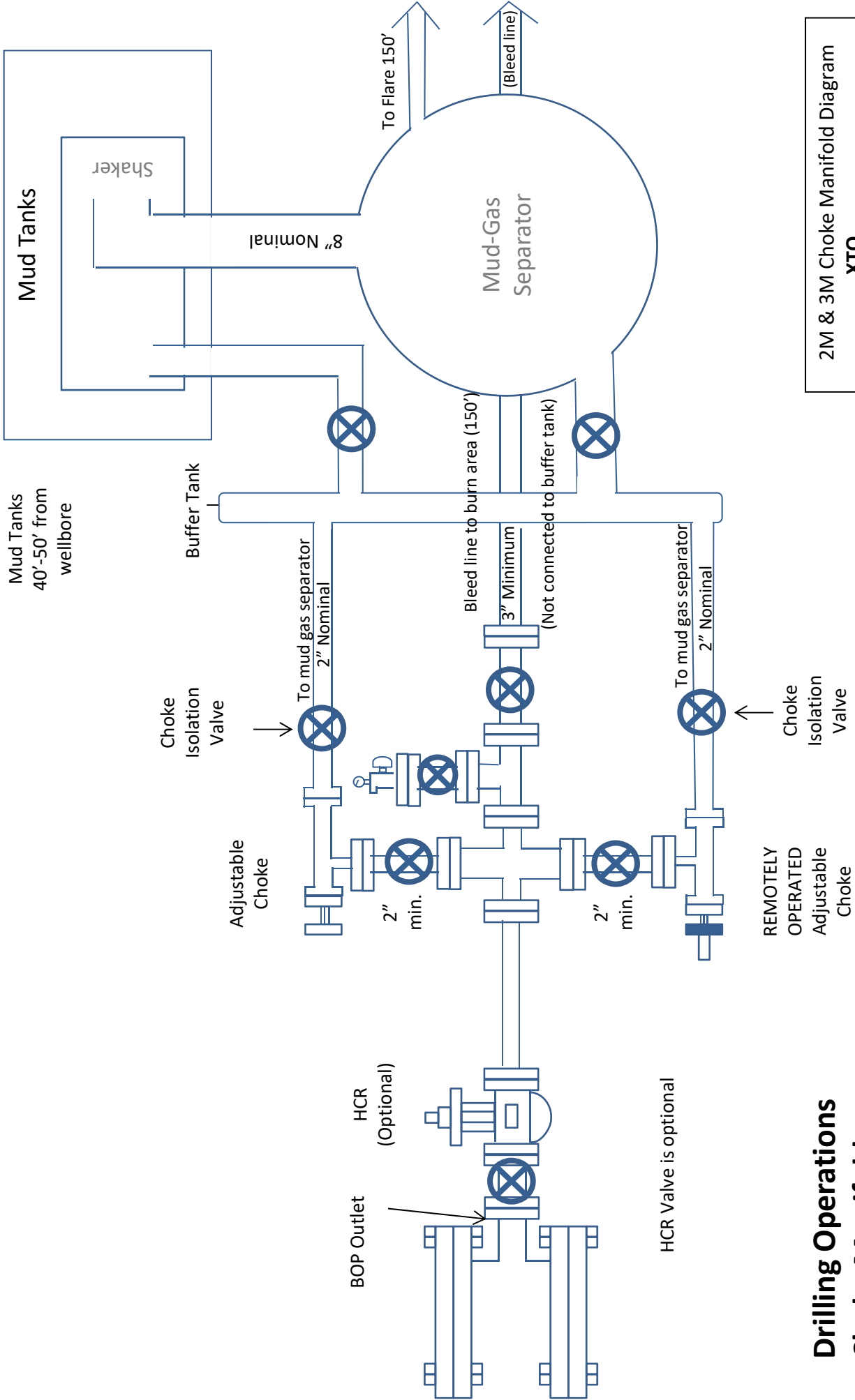
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
Assembly, With T-EBS-F Tubing Head

DRAWN VJK 16FEB17

APPRV KN 16FEB17

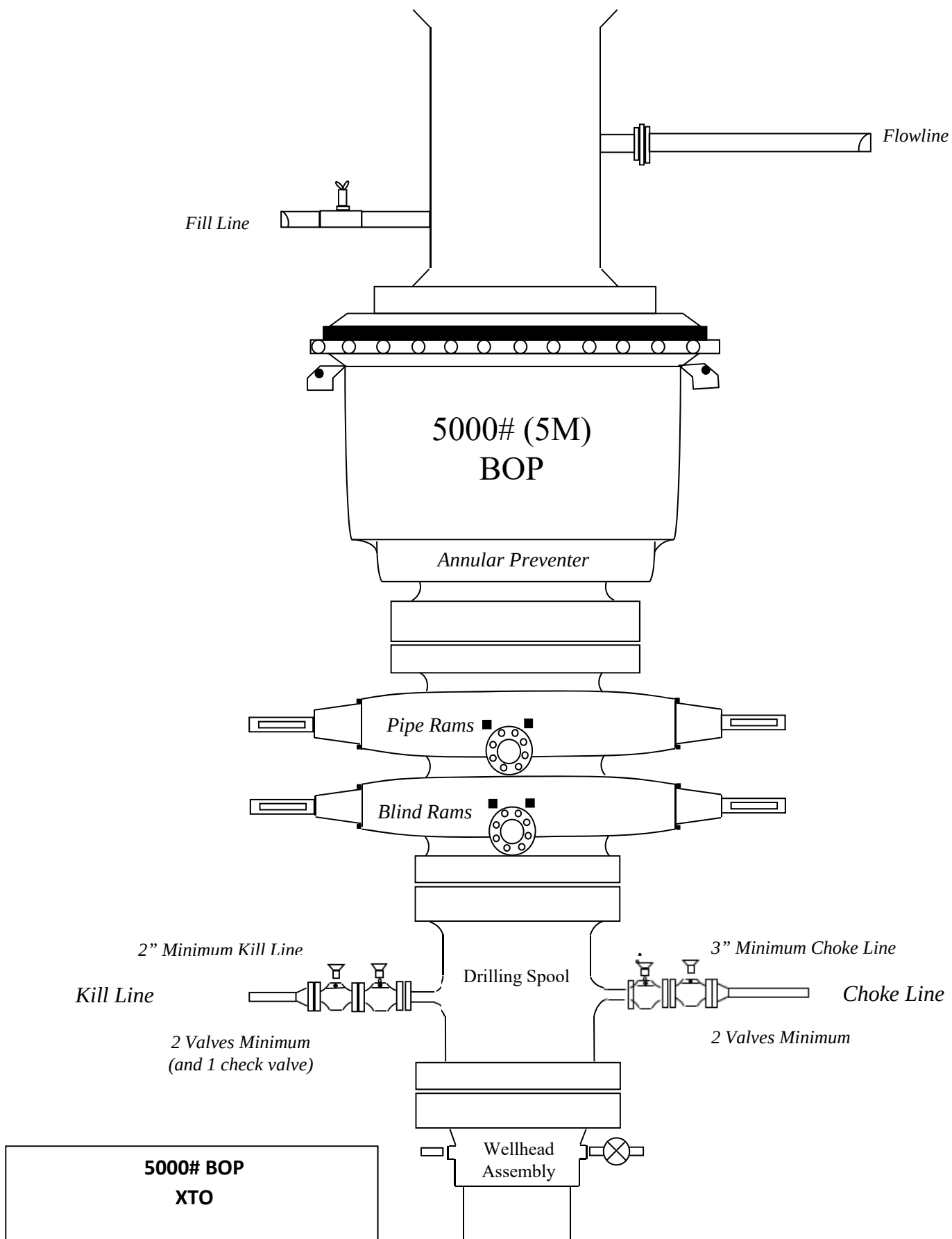
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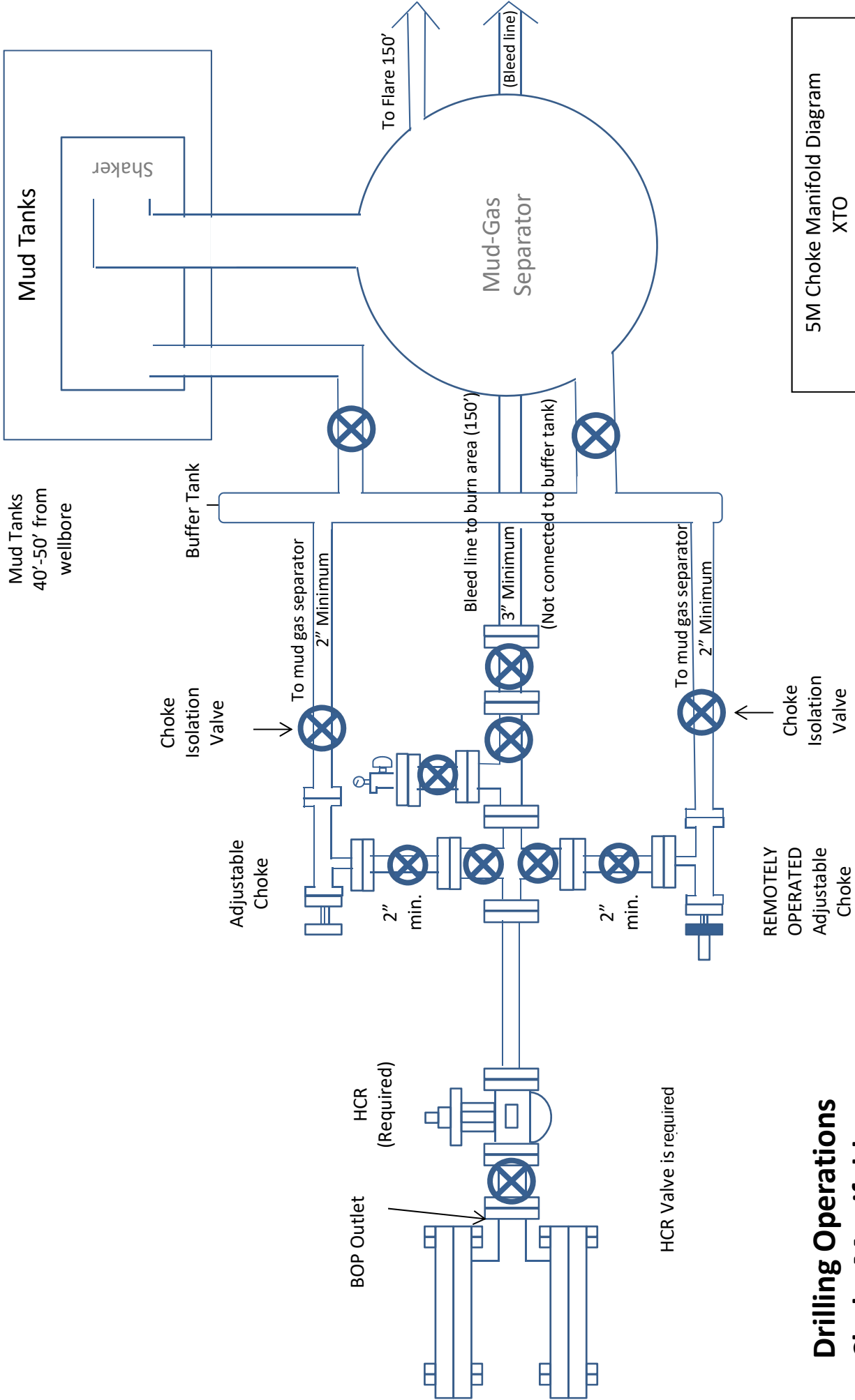




2M & 3M Choke Manifold Diagram
XTO

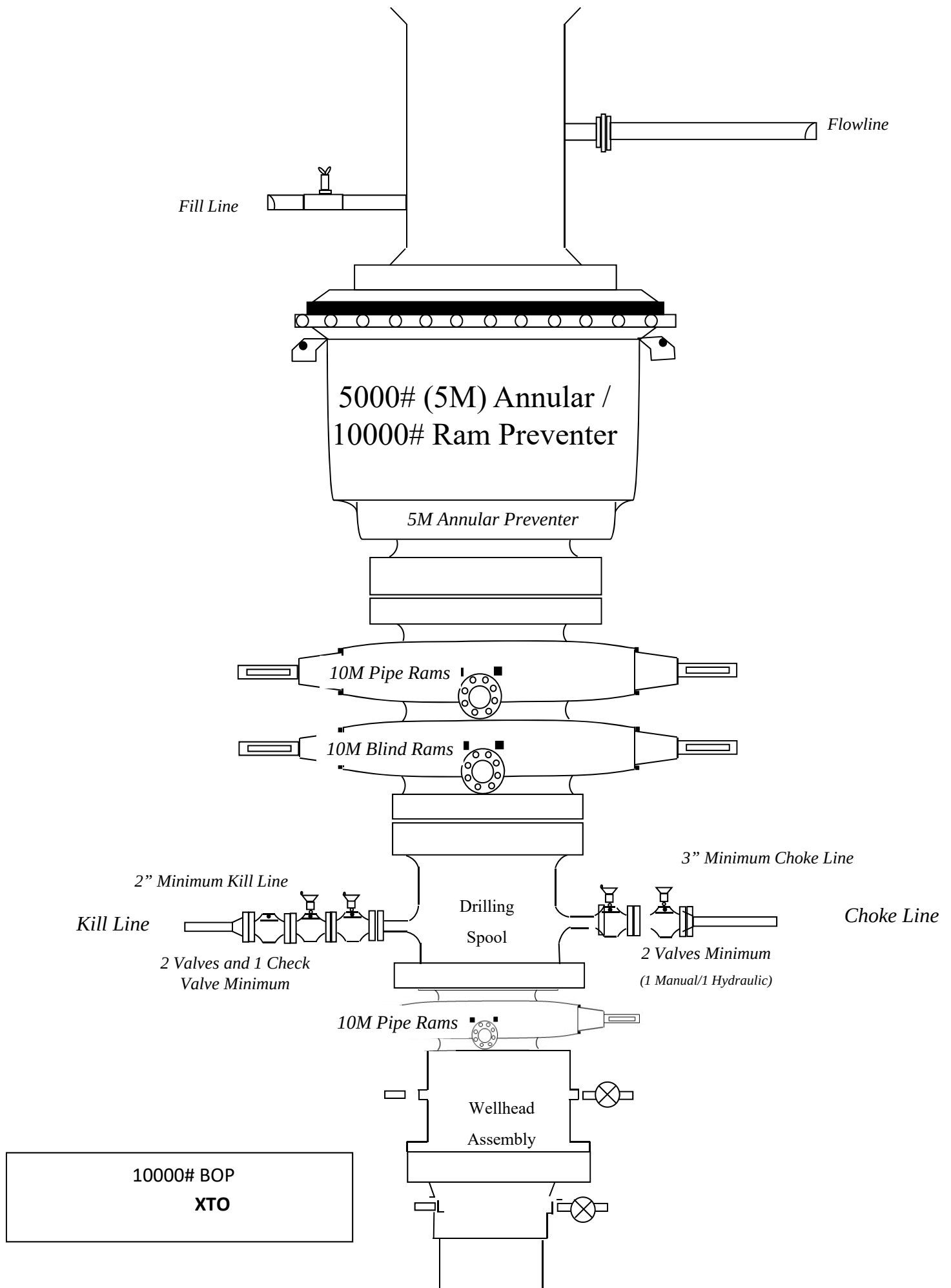
Drilling Operations Choke Manifold 2M & 3M Service





5M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
5M Service**



10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

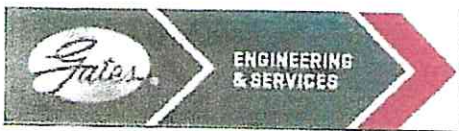
General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

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



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

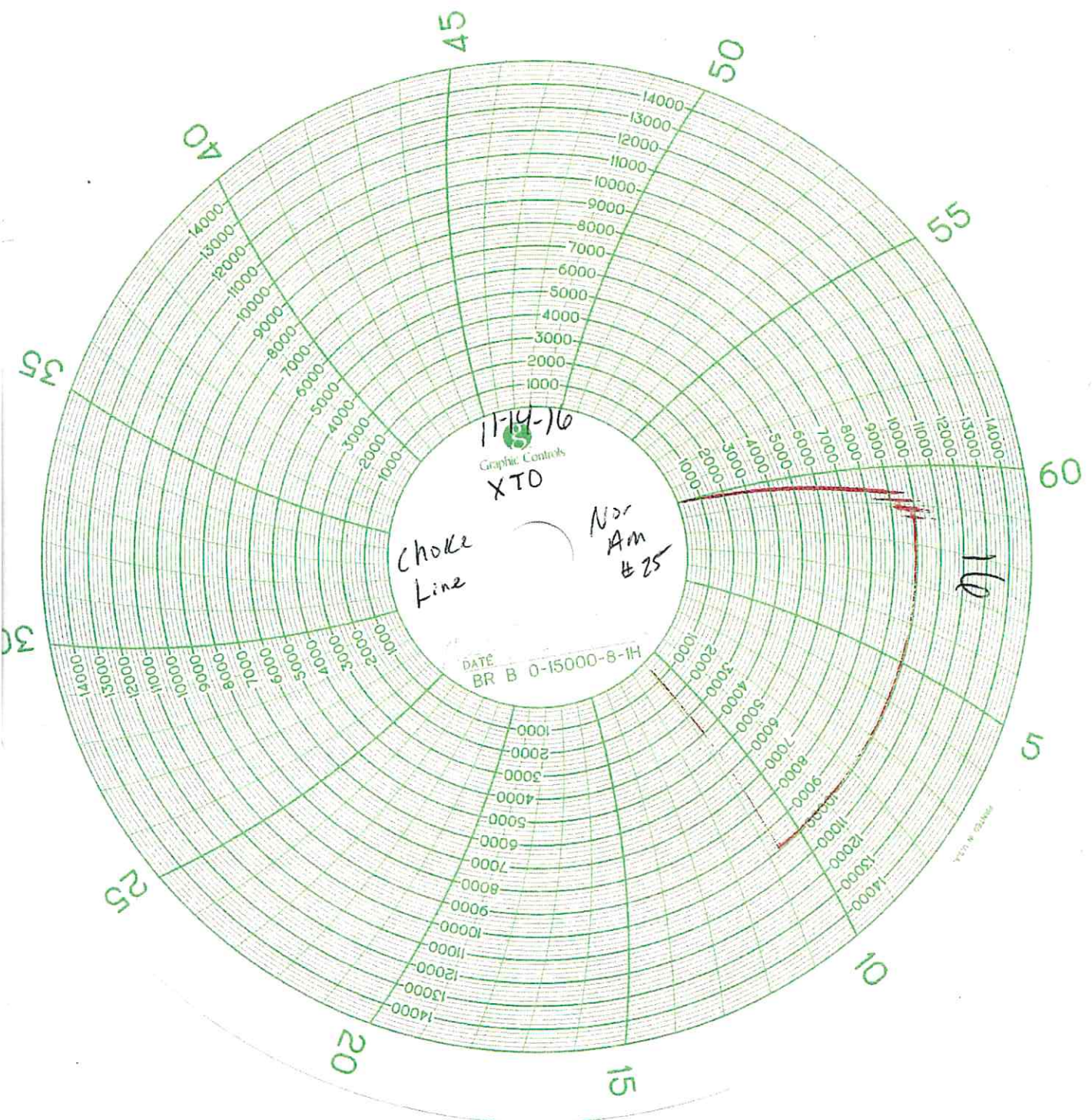
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

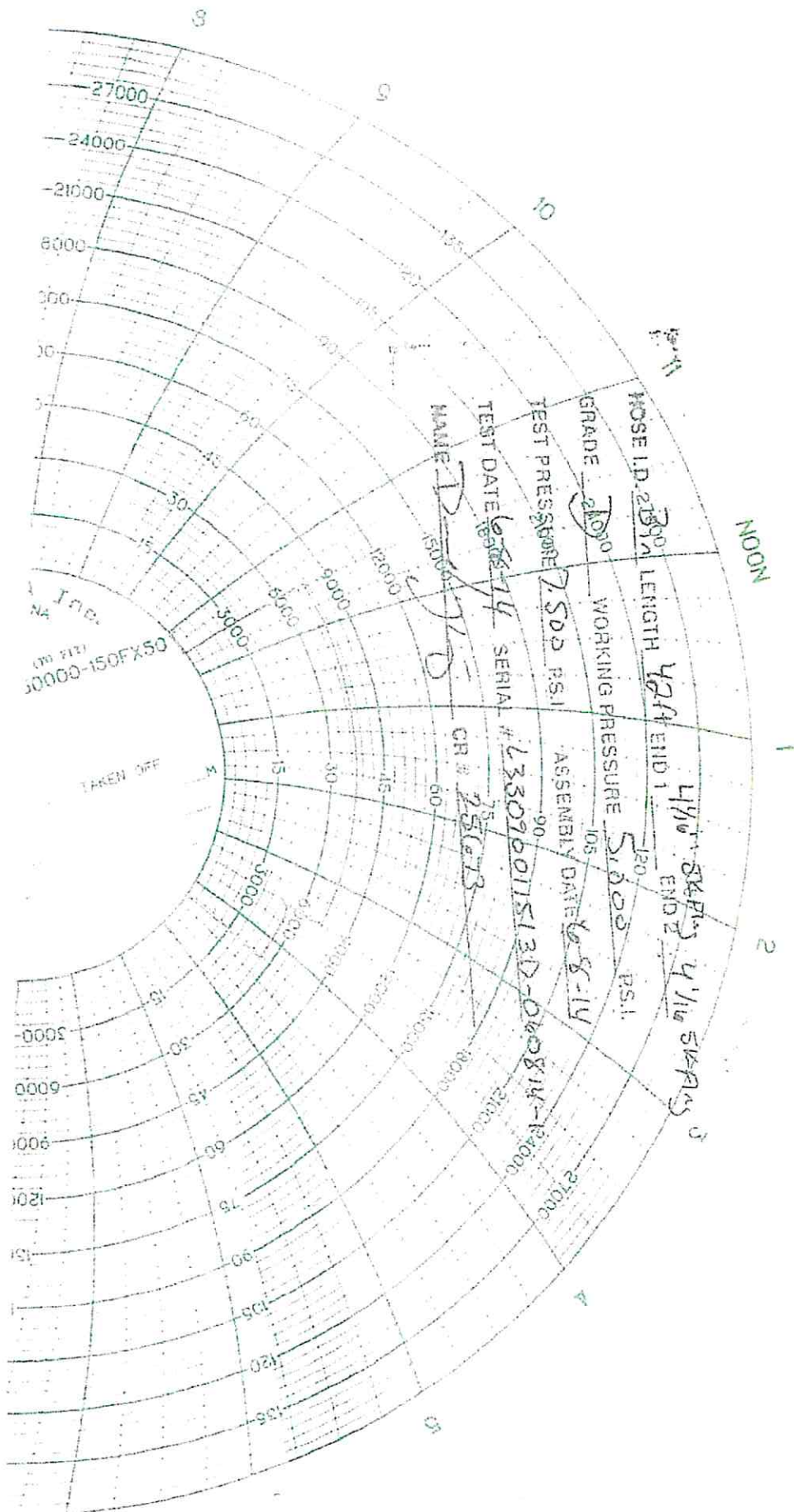
GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	







Location: Eddy County, NM
Field: Wolfcamp (Eddy Co., NM)
Facility: JRU DI 8 Eagle Pad

XTO Energy Inc.

Slot: JRU DI 8 Eagle #110H
Well: JRU DI 8 Eagle #110H
Wellbore: JRU DI 8 Eagle #110H



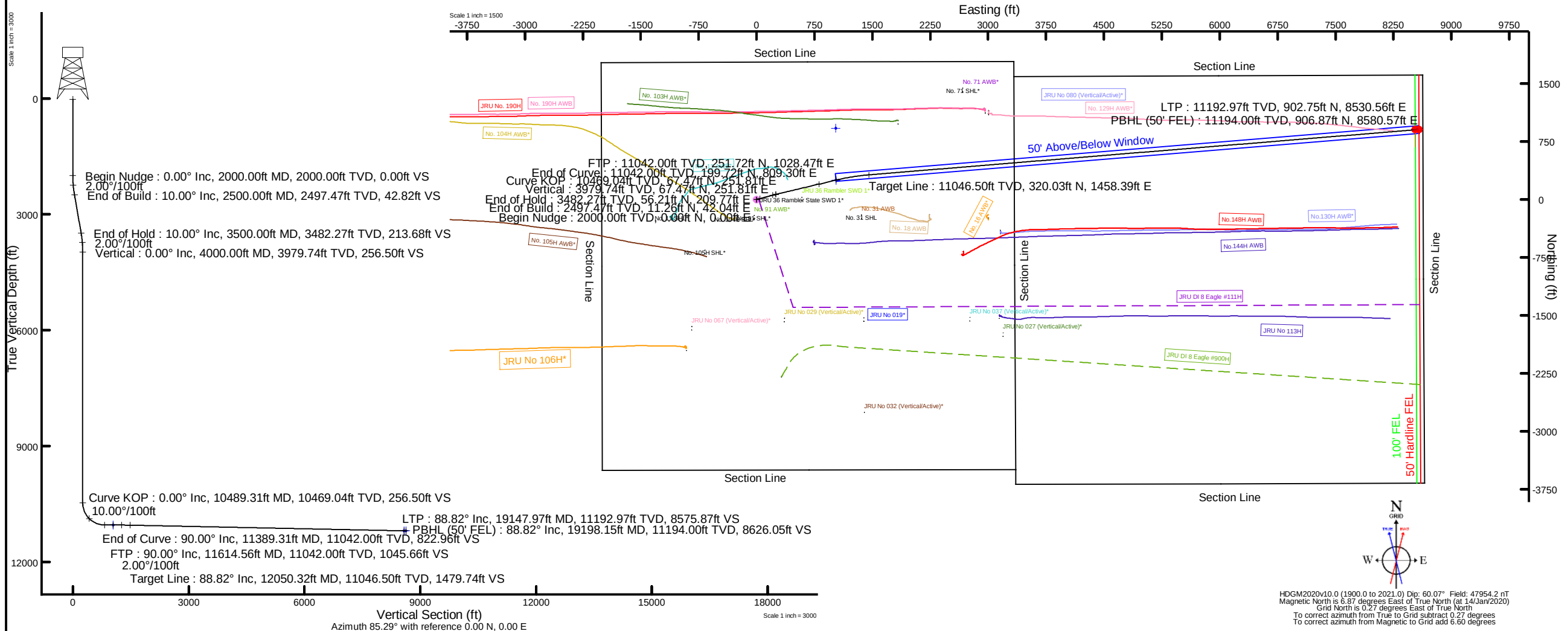
Plot reference wellpath is JRU DI 8 Eagle #110H Rev-A.0	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
True vertical depths are referenced to Precision 598 (RKB)	* = Wellpath was transformed from a different geodetic datum
Reference wellpath measured depths are referenced to Precision 598 (RKB)	North Reference: Grid north
Precision 598 (RKB) to Mean Sea Level: 3342 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: JRU DI 8 Eagle #110H): -3317 feet	Coordinates are in feet referenced to Slot
Offset wellpath MDs are referenced to each path's default MD datum	Depths are in feet
	Created by: Gail Deering on 2020-01-25; Database: WA_HOU_Midland_Defn

Location Information				
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude
JRU DI 8 Eagle Pad		653602.800	491749.000	32°21'3.4301"N
Slot		Local N (ft)	Local E (ft)	Latitude
JRU DI 8 Eagle #110H		0.00	0.00	32°21'3.4301"N
Precision 598 (RKB) to Ground level (At Slot: JRU DI 8 Eagle #110H)		653602.800	491749.000	103°50'9.3507"W
Mean Sea Level to Ground level (At Slot: JRU DI 8 Eagle #110H)				25ft
Precision 598 (RKB) to Mean Sea Level				-3317ft
				3342ft

Targets							
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
JRU DI 8 Eagle #110H FTP	11614.56	11042.00	251.72	1028.47	654631.20	492000.70	32°21'5.8734"N
JRU DI 8 Eagle #110H LTP	N/A	11192.96	902.26	8530.56	662132.80	492651.20	32°21'11.9550"N
JRU DI 8 Eagle #110H BHL	N/A	11194.00	906.87	8580.57	662182.80	492655.50	32°21'11.9951"N

Bottom Hole Location							
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
19198.15	88.818	85.290	11194.00	906.87	8580.57	662182.80	492655.81
							32°21'11.9982"N
							103°48'29.2797"W

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	25.00	0.000	75.000	25.00	0.00	0.00	0.00
Begin Nudge	2000.00	0.000	75.000	2000.00	0.00	0.00	0.00
End of Build	2500.00	10.000	75.000	2497.47	11.26	42.04	2.00
End of Hold	3500.00	10.000	75.000	3482.27	56.21	209.77	0.00
Vertical	4000.00	0.000	76.655	3979.74	67.47	251.81	2.00
Curve KOP	10489.31	0.000	76.655	10469.04	67.47	251.81	0.00
End of Curve	11389.31	90.000	76.655	11042.00	199.72	809.30	10.00
FTP	11614.56	90.000	76.655	11042.00	251.72	1028.47	0.00
Target Line	12050.32	88.818	85.290	11046.50	320.03	1458.39	2.00
LTP	19147.97	88.818	85.290	11192.97	902.75	8530.56	0.00
PBHL (50' FEL)	19198.15	88.818	85.290	11194.00	906.87	8580.57	0.00





Planned Wellpath Report

JRU DI 8 Eagle #110H Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Well	JRU DI 8 Eagle #110H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #110H
Slot	JRU DI 8 Eagle #110H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Gail Deering
Scale	0.999936	Report Generated	25/Jan/2020 at 08:16
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	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W
Facility Reference Pt			653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W
Field Reference Pt			152400.30	0.00	30°59'42.8458"N	105°26'33.6593"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Precision 598 (RKB) to Facility Vertical Datum	3342.00ft
Horizontal Reference Pt	Slot	Precision 598 (RKB) to Mean Sea Level	3342.00ft
Vertical Reference Pt	Precision 598 (RKB)	Precision 598 (RKB) to Ground Level at Slot (JRU DI 8 Eagle #110H)	25.00ft
MD Reference Pt	Precision 598 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	85.29°



Planned Wellpath Report

JRU DI 8 Eagle #110H Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION													
Operator	XTO Energy Inc.							Well	JRU DI 8 Eagle #110H				
Field	Wolfcamp (Eddy Co., NM)							API/Legal					
Facility	JRU DI 8 Eagle Pad							Wellbore	JRU DI 8 Eagle #110H				
Slot	JRU DI 8 Eagle #110H												

WELLPATH DATA (204 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	75.000	0.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
25.00	0.000	75.000	25.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	Tie On
27.00†	0.000	75.000	27.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
127.00†	0.000	75.000	127.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
227.00†	0.000	75.000	227.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
327.00†	0.000	75.000	327.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
427.00†	0.000	75.000	427.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
527.00†	0.000	75.000	527.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
627.00†	0.000	75.000	627.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
727.00†	0.000	75.000	727.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
827.00†	0.000	75.000	827.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
927.00†	0.000	75.000	927.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1027.00†	0.000	75.000	1027.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1127.00†	0.000	75.000	1127.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1227.00†	0.000	75.000	1227.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1327.00†	0.000	75.000	1327.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1427.00†	0.000	75.000	1427.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1527.00†	0.000	75.000	1527.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1627.00†	0.000	75.000	1627.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1727.00†	0.000	75.000	1727.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1827.00†	0.000	75.000	1827.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
1927.00†	0.000	75.000	1927.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	
2000.00	0.000	75.000	2000.00	0.00	0.00	0.00	653602.80	491749.00	32°21'3.4301"N	103°50'9.3507"W	0.00	0.00	0.00	Begin Nudge
2027.00†	0.540	75.000	2027.00	0.13	0.03	0.12	653602.92	491749.03	32°21'3.4304"N	103°50'9.3493"W	2.00	2.00	0.00	
2127.00†	2.540	75.000	2126.96	2.77	0.73	2.72	653605.52	491749.73	32°21'3.4372"N	103°50'9.3190"W	2.00	2.00	0.00	
2227.00†	4.540	75.000	2226.76	8.84	2.33	8.68	653611.48	491751.33	32°21'3.4527"N	103°50'9.2494"W	2.00	2.00	0.00	
2327.00†	6.540	75.000	2326.29	18.34	4.83	18.01	653620.81	491753.82	32°21'3.4770"N	103°50'9.1406"W	2.00	2.00	0.00	
2427.00†	8.540	75.000	2425.42	31.25	8.22	30.68	653633.48	491757.22	32°21'3.5100"N	103°50'8.9926"W	2.00	2.00	0.00	
2500.00	10.000	75.000	2497.47	42.82	11.26	42.04	653644.84	491760.26	32°21'3.5396"N	103°50'8.8601"W	2.00	2.00	0.00	End of Build
2527.00†	10.000	75.000	2524.06	47.44	12.48	46.57	653649.37	491761.48	32°21'3.5514"N	103°50'8.8072"W	0.00	0.00	0.00	



Planned Wellpath Report
JRU DI 8 Eagle #110H Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION													
Operator	XTO Energy Inc.							Well	JRU DI 8 Eagle #110H				
Field	Wolfcamp (Eddy Co., NM)							API/Legal					
Facility	JRU DI 8 Eagle Pad							Wellbore	JRU DI 8 Eagle #110H				
Slot	JRU DI 8 Eagle #110H												

WELLPATH DATA (204 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
2627.00†	10.000	75.000	2622.54	64.52	16.97	63.34	653666.14	491765.97	32°21'3.5951"N	103°50'8.6115"W	0.00	0.00	0.00	
2727.00†	10.000	75.000	2721.02	81.61	21.47	80.11	653682.91	491770.47	32°21'3.6388"N	103°50'8.4157"W	0.00	0.00	0.00	
2827.00†	10.000	75.000	2819.50	98.69	25.96	96.89	653699.68	491774.96	32°21'3.6825"N	103°50'8.2199"W	0.00	0.00	0.00	
2927.00†	10.000	75.000	2917.98	115.78	30.46	113.66	653716.45	491779.45	32°21'3.7262"N	103°50'8.0242"W	0.00	0.00	0.00	
3027.00†	10.000	75.000	3016.46	132.86	34.95	130.43	653733.23	491783.95	32°21'3.7699"N	103°50'7.8284"W	0.00	0.00	0.00	
3127.00†	10.000	75.000	3114.94	149.95	39.44	147.21	653750.00	491788.44	32°21'3.8136"N	103°50'7.6327"W	0.00	0.00	0.00	
3227.00†	10.000	75.000	3213.42	167.03	43.94	163.98	653766.77	491792.94	32°21'3.8573"N	103°50'7.4369"W	0.00	0.00	0.00	
3327.00†	10.000	75.000	3311.90	184.12	48.43	180.75	653783.54	491797.43	32°21'3.9010"N	103°50'7.2411"W	0.00	0.00	0.00	
3427.00†	10.000	75.000	3410.38	201.20	52.93	197.53	653800.31	491801.92	32°21'3.9447"N	103°50'7.0454"W	0.00	0.00	0.00	
3500.00	10.000	75.000	3482.27	213.68	56.21	209.77	653812.56	491805.20	32°21'3.9766"N	103°50'6.9025"W	0.00	0.00	0.00	End of Hold
3527.00†	9.460	75.000	3508.88	218.17	57.39	214.18	653816.96	491806.39	32°21'3.9881"N	103°50'6.8510"W	2.00	-2.00	0.00	
3627.00†	7.460	75.000	3607.79	232.64	61.20	228.39	653831.17	491810.19	32°21'4.0251"N	103°50'6.6852"W	2.00	-2.00	0.00	
3727.00†	5.460	75.000	3707.15	243.71	64.11	239.26	653842.04	491813.10	32°21'4.0534"N	103°50'6.5584"W	2.00	-2.00	0.00	
3827.00†	3.460	75.000	3806.84	251.36	66.12	246.77	653849.55	491815.12	32°21'4.0730"N	103°50'6.4707"W	2.00	-2.00	0.00	
3927.00†	1.460	75.000	3906.75	255.58	67.23	250.91	653853.70	491816.23	32°21'4.0838"N	103°50'6.4223"W	2.00	-2.00	0.00	
4000.00	0.000	76.655	3979.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	2.00	-2.00	0.00	Vertical
4027.00†	0.000	76.655	4006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4127.00†	0.000	76.655	4106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4227.00†	0.000	76.655	4206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4327.00†	0.000	76.655	4306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4427.00†	0.000	76.655	4406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4527.00†	0.000	76.655	4506.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4627.00†	0.000	76.655	4606.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4727.00†	0.000	76.655	4706.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4827.00†	0.000	76.655	4806.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
4927.00†	0.000	76.655	4906.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5027.00†	0.000	76.655	5006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5127.00†	0.000	76.655	5106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5227.00†	0.000	76.655	5206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5327.00†	0.000	76.655	5306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	



Planned Wellpath Report
JRUI DI 8 Eagle #110H Rev-A.0
Page 4 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Well	JRU DI 8 Eagle #110H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #110H
Slot	JRU DI 8 Eagle #110H		

WELLPATH DATA (204 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
5427.00†	0.000	76.655	5406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5527.00†	0.000	76.655	5506.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5627.00†	0.000	76.655	5606.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5727.00†	0.000	76.655	5706.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5827.00†	0.000	76.655	5806.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
5927.00†	0.000	76.655	5906.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6027.00†	0.000	76.655	6006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6127.00†	0.000	76.655	6106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6227.00†	0.000	76.655	6206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6327.00†	0.000	76.655	6306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6427.00†	0.000	76.655	6406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6527.00†	0.000	76.655	6506.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6627.00†	0.000	76.655	6606.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6727.00†	0.000	76.655	6706.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6827.00†	0.000	76.655	6806.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
6927.00†	0.000	76.655	6906.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7027.00†	0.000	76.655	7006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7127.00†	0.000	76.655	7106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7227.00†	0.000	76.655	7206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7327.00†	0.000	76.655	7306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7427.00†	0.000	76.655	7406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7527.00†	0.000	76.655	7506.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7627.00†	0.000	76.655	7606.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7727.00†	0.000	76.655	7706.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7827.00†	0.000	76.655	7806.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
7927.00†	0.000	76.655	7906.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8027.00†	0.000	76.655	8006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8127.00†	0.000	76.655	8106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8227.00†	0.000	76.655	8206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8327.00†	0.000	76.655	8306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION													
Operator	XTO Energy Inc.							Well	JRUI 8 Eagle #110H				
Field	Wolfcamp (Eddy Co., NM)							API/Legal					
Facility	JRUI 8 Eagle Pad							Wellbore	JRUI 8 Eagle #110H				
Slot	JRUI 8 Eagle #110H												

WELLPATH DATA (204 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
8427.00†	0.000	76.655	8406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8527.00†	0.000	76.655	8506.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8627.00†	0.000	76.655	8606.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8727.00†	0.000	76.655	8706.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8827.00†	0.000	76.655	8806.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
8927.00†	0.000	76.655	8906.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9027.00†	0.000	76.655	9006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9127.00†	0.000	76.655	9106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9227.00†	0.000	76.655	9206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9327.00†	0.000	76.655	9306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9427.00†	0.000	76.655	9406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9527.00†	0.000	76.655	9506.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9627.00†	0.000	76.655	9606.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9727.00†	0.000	76.655	9706.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9827.00†	0.000	76.655	9806.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
9927.00†	0.000	76.655	9906.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
10027.00†	0.000	76.655	10006.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
10127.00†	0.000	76.655	10106.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
10227.00†	0.000	76.655	10206.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
10327.00†	0.000	76.655	10306.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
10427.00†	0.000	76.655	10406.74	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	
10489.31	0.000	76.655	10469.04	256.50	67.47	251.81	653854.59	491816.47	32°21'4.0861"N	103°50'6.4118"W	0.00	0.00	0.00	Curve KOP
10527.00†	3.769	76.655	10506.71	257.72	67.76	253.02	653855.80	491816.75	32°21'4.0889"N	103°50'6.3978"W	10.00	10.00	0.00	
10627.00†	13.769	76.655	10605.42	272.78	71.27	267.83	653870.61	491820.27	32°21'4.1230"N	103°50'6.2249"W	10.00	10.00	0.00	
10727.00†	23.769	76.655	10699.98	304.55	78.69	299.10	653901.88	491827.69	32°21'4.1950"N	103°50'5.8600"W	10.00	10.00	0.00	
10827.00†	33.769	76.655	10787.52	352.07	89.79	345.87	653948.65	491838.78	32°21'4.3026"N	103°50'5.3142"W	10.00	10.00	0.00	
10927.00†	43.769	76.655	10865.39	413.90	104.22	406.72	654009.49	491853.21	32°21'4.4426"N	103°50'4.6041"W	10.00	10.00	0.00	
11027.00†	53.769	76.655	10931.22	488.16	121.56	479.80	654082.57	491870.55	32°21'4.6108"N	103°50'3.7513"W	10.00	10.00	0.00	
11127.00†	63.769	76.655	10983.00	572.59	141.27	562.90	654165.66	491890.26	32°21'4.8020"N	103°50'2.7816"W	10.00	10.00	0.00	
11227.00†	73.769	76.655	11019.17	664.63	162.76	653.48	654256.23	491911.75	32°21'5.0105"N	103°50'1.7246"W	10.00	10.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION													
Operator	XTO Energy Inc.							Well	JRU DI 8 Eagle #110H				
Field	Wolfcamp (Eddy Co., NM)							API/Legal					
Facility	JRU DI 8 Eagle Pad							Wellbore	JRU DI 8 Eagle #110H				
Slot	JRU DI 8 Eagle #110H												

WELLPATH DATA (204 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
11327.00†	83.769	76.655	11038.62	761.48	185.37	748.79	654351.54	491934.36	32°21'5.2298"N	103°50'0.6123"W	10.00	10.00	0.00	
11389.31	90.000	76.655	11042.00	822.96	199.72	809.30	654412.05	491948.71	32°21'5.3691"N	103°49'59.9062"W	10.00	10.00	0.00	End of Curve
11427.00†	90.000	76.655	11042.00	860.23	208.42	845.97	654448.72	491957.41	32°21'5.4535"N	103°49'59.4783"W	0.00	0.00	0.00	
11527.00†	90.000	76.655	11042.00	959.09	231.51	943.27	654546.01	491980.49	32°21'5.6774"N	103°49'58.3428"W	0.00	0.00	0.00	
11614.56	90.000	76.655	11042.00†	1045.66	251.72	1028.47	654631.20	492000.70	32°21'5.8734"N	103°49'57.3486"W	0.00	0.00	0.00	FTP
11627.00†	89.967	76.901	11042.00	1057.96	254.56	1040.58	654643.31	492003.55	32°21'5.9010"N	103°49'57.2073"W	2.00	-0.27	1.98	
11727.00†	89.694	78.882	11042.30	1157.12	275.54	1138.35	654741.07	492024.52	32°21'6.1040"N	103°49'56.0665"W	2.00	-0.27	1.98	
11827.00†	89.422	80.864	11043.07	1256.67	293.12	1236.78	654839.50	492042.10	32°21'6.2734"N	103°49'54.9181"W	2.00	-0.27	1.98	
11927.00†	89.151	82.846	11044.32	1356.48	307.28	1335.76	654938.47	492056.26	32°21'6.4090"N	103°49'53.7636"W	2.00	-0.27	1.98	
12027.00†	88.880	84.828	11046.03	1456.42	318.02	1435.16	655037.87	492067.00	32°21'6.5106"N	103°49'52.6043"W	2.00	-0.27	1.98	
12050.32	88.818	85.290	11046.50	1479.74	320.03	1458.39	655061.09	492069.01	32°21'6.5294"N	103°49'52.3335"W	2.00	-0.27	1.98	Target Line
12127.00†	88.818	85.290	11048.09	1556.40	326.32	1534.80	655137.50	492075.30	32°21'6.5882"N	103°49'51.4425"W	0.00	0.00	0.00	
12227.00†	88.818	85.290	11050.15	1656.38	334.53	1634.44	655237.13	492083.51	32°21'6.6648"N	103°49'50.2806"W	0.00	0.00	0.00	
12327.00†	88.818	85.290	11052.21	1756.36	342.74	1734.08	655336.76	492091.72	32°21'6.7414"N	103°49'49.1186"W	0.00	0.00	0.00	
12427.00†	88.818	85.290	11054.28	1856.34	350.95	1833.72	655436.40	492099.93	32°21'6.8180"N	103°49'47.9567"W	0.00	0.00	0.00	
12527.00†	88.818	85.290	11056.34	1956.32	359.16	1933.36	655536.03	492108.14	32°21'6.8946"N	103°49'46.7948"W	0.00	0.00	0.00	
12627.00†	88.818	85.290	11058.40	2056.30	367.37	2033.00	655635.67	492116.35	32°21'6.9712"N	103°49'45.6329"W	0.00	0.00	0.00	
12727.00†	88.818	85.290	11060.47	2156.27	375.58	2132.64	655735.30	492124.56	32°21'7.0478"N	103°49'44.4709"W	0.00	0.00	0.00	
12827.00†	88.818	85.290	11062.53	2256.25	383.79	2232.28	655834.94	492132.77	32°21'7.1244"N	103°49'43.3090"W	0.00	0.00	0.00	
12927.00†	88.818	85.290	11064.59	2356.23	392.00	2331.92	655934.57	492140.98	32°21'7.2010"N	103°49'42.1471"W	0.00	0.00	0.00	
13027.00†	88.818	85.290	11066.66	2456.21	400.21	2431.57	656034.21	492149.19	32°21'7.2776"N	103°49'40.9851"W	0.00	0.00	0.00	
13127.00†	88.818	85.290	11068.72	2556.19	408.42	2531.21	656133.84	492157.40	32°21'7.3542"N	103°49'39.8232"W	0.00	0.00	0.00	
13227.00†	88.818	85.290	11070.78	2656.17	416.63	2630.85	656233.47	492165.61	32°21'7.4308"N	103°49'38.6613"W	0.00	0.00	0.00	
13327.00†	88.818	85.290	11072.85	2756.15	424.84	2730.49	656333.11	492173.82	32°21'7.5073"N	103°49'37.4993"W	0.00	0.00	0.00	
13427.00†	88.818	85.290	11074.91	2856.12	433.05	2830.13	656432.74	492182.02	32°21'7.5839"N	103°49'36.3374"W	0.00	0.00	0.00	
13527.00†	88.818	85.290	11076.97	2956.10	441.26	2929.77	656532.38	492190.23	32°21'7.6605"N	103°49'35.1755"W	0.00	0.00	0.00	
13627.00†	88.818	85.290	11079.04	3056.08	449.47	3029.41	656632.01	492198.44	32°21'7.7370"N	103°49'34.0135"W	0.00	0.00	0.00	
13727.00†	88.818	85.290	11081.10	3156.06	457.68	3129.05	656731.65	492206.65	32°21'7.8136"N	103°49'32.8516"W	0.00	0.00	0.00	
13827.00†	88.818	85.290	11083.17	3256.04	465.89	3228.69	656831.28	492214.86	32°21'7.8902"N	103°49'31.6897"W	0.00	0.00	0.00	
13927.00†	88.818	85.290	11085.23	3356.02	474.10	3328.34	656930.92	492223.07	32°21'7.9667"N	103°49'30.5277"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION													
Operator	XTO Energy Inc.							Well	JRUI 8 Eagle #110H				
Field	Wolfcamp (Eddy Co., NM)							API/Legal					
Facility	JRUI 8 Eagle Pad							Wellbore	JRUI 8 Eagle #110H				
Slot	JRUI 8 Eagle #110H												

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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
14027.00†	88.818	85.290	11087.29	3456.00	482.31	3427.98	657030.55	492231.28	32°21'8.0433"N	103°49'29.3658"W	0.00	0.00	0.00	
14127.00†	88.818	85.290	11089.36	3555.98	490.52	3527.62	657130.18	492239.49	32°21'8.1199"N	103°49'28.2039"W	0.00	0.00	0.00	
14227.00†	88.818	85.290	11091.42	3655.95	498.73	3627.26	657229.82	492247.70	32°21'8.1964"N	103°49'27.0419"W	0.00	0.00	0.00	
14327.00†	88.818	85.290	11093.48	3755.93	506.94	3726.90	657329.45	492255.91	32°21'8.2730"N	103°49'25.8800"W	0.00	0.00	0.00	
14427.00†	88.818	85.290	11095.55	3855.91	515.15	3826.54	657429.09	492264.12	32°21'8.3495"N	103°49'24.7181"W	0.00	0.00	0.00	
14527.00†	88.818	85.290	11097.61	3955.89	523.36	3926.18	657528.72	492272.33	32°21'8.4260"N	103°49'23.5561"W	0.00	0.00	0.00	
14627.00†	88.818	85.290	11099.67	4055.87	531.57	4025.82	657628.36	492280.54	32°21'8.5026"N	103°49'22.3942"W	0.00	0.00	0.00	
14727.00†	88.818	85.290	11101.74	4155.85	539.78	4125.46	657727.99	492288.75	32°21'8.5791"N	103°49'21.2322"W	0.00	0.00	0.00	
14827.00†	88.818	85.290	11103.80	4255.83	547.99	4225.10	657827.63	492296.96	32°21'8.6557"N	103°49'20.0703"W	0.00	0.00	0.00	
14927.00†	88.818	85.290	11105.86	4355.81	556.20	4324.75	657927.26	492305.17	32°21'8.7322"N	103°49'18.9084"W	0.00	0.00	0.00	
15027.00†	88.818	85.290	11107.93	4455.78	564.41	4424.39	658026.90	492313.38	32°21'8.8087"N	103°49'17.7464"W	0.00	0.00	0.00	
15127.00†	88.818	85.290	11109.99	4555.76	572.62	4524.03	658126.53	492321.59	32°21'8.8852"N	103°49'16.5845"W	0.00	0.00	0.00	
15227.00†	88.818	85.290	11112.05	4655.74	580.83	4623.67	658226.16	492329.80	32°21'8.9618"N	103°49'15.4225"W	0.00	0.00	0.00	
15327.00†	88.818	85.290	11114.12	4755.72	589.04	4723.31	658325.80	492338.00	32°21'9.0383"N	103°49'14.2606"W	0.00	0.00	0.00	
15427.00†	88.818	85.290	11116.18	4855.70	597.25	4822.95	658425.43	492346.21	32°21'9.1148"N	103°49'13.0986"W	0.00	0.00	0.00	
15527.00†	88.818	85.290	11118.25	4955.68	605.46	4922.59	658525.07	492354.42	32°21'9.1913"N	103°49'11.9367"W	0.00	0.00	0.00	
15627.00†	88.818	85.290	11120.31	5055.66	613.67	5022.23	658624.70	492362.63	32°21'9.2678"N	103°49'10.7748"W	0.00	0.00	0.00	
15727.00†	88.818	85.290	11122.37	5155.64	621.88	5121.87	658724.34	492370.84	32°21'9.3443"N	103°49'9.6128"W	0.00	0.00	0.00	
15827.00†	88.818	85.290	11124.44	5255.61	630.09	5221.51	658823.97	492379.05	32°21'9.4208"N	103°49'8.4509"W	0.00	0.00	0.00	
15927.00†	88.818	85.290	11126.50	5355.59	638.30	5321.16	658923.61	492387.26	32°21'9.4973"N	103°49'7.2889"W	0.00	0.00	0.00	
16027.00†	88.818	85.290	11128.56	5455.57	646.51	5420.80	659023.24	492395.47	32°21'9.5738"N	103°49'6.1270"W	0.00	0.00	0.00	
16127.00†	88.818	85.290	11130.63	5555.55	654.72	5520.44	659122.87	492403.68	32°21'9.6503"N	103°49'4.9650"W	0.00	0.00	0.00	
16227.00†	88.818	85.290	11132.69	5655.53	662.93	5620.08	659222.51	492411.89	32°21'9.7268"N	103°49'3.8031"W	0.00	0.00	0.00	
16327.00†	88.818	85.290	11134.75	5755.51	671.14	5719.72	659322.14	492420.10	32°21'9.8033"N	103°49'2.6411"W	0.00	0.00	0.00	
16427.00†	88.818	85.290	11136.82	5855.49	679.35	5819.36	659421.78	492428.31	32°21'9.8798"N	103°49'1.4792"W	0.00	0.00	0.00	
16527.00†	88.818	85.290	11138.88	5955.46	687.56	5919.00	659521.41	492436.52	32°21'9.9563"N	103°49'0.3172"W	0.00	0.00	0.00	
16627.00†	88.818	85.290	11140.94	6055.44	695.77	6018.64	659621.05	492444.73	32°21'10.0328"N	103°48'59.1553"W	0.00	0.00	0.00	
16727.00†	88.818	85.290	11143.01	6155.42	703.98	6118.28	659720.68	492452.94	32°21'10.1092"N	103°48'57.9933"W	0.00	0.00	0.00	
16827.00†	88.818	85.290	11145.07	6255.40	712.19	6217.93	659820.32	492461.15	32°21'10.1857"N	103°48'56.8314"W	0.00	0.00	0.00	
16927.00†	88.818	85.290	11147.13	6355.38	720.40	6317.57	659919.95	492469.36	32°21'10.2622"N	103°48'55.6694"W	0.00	0.00	0.00	



Planned Wellpath Report
JRUI 8 Eagle #110H Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Well	JRUI 8 Eagle #110H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRUI 8 Eagle Pad	Wellbore	JRUI 8 Eagle #110H
Slot	JRUI 8 Eagle #110H		

WELLPATH DATA (204 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
17027.00†	88.818	85.290	11149.20	6455.36	728.61	6417.21	660019.58	492477.57	32°21'10.3387"N	103°48'54.5075"W	0.00	0.00	0.00	
17127.00†	88.818	85.290	11151.26	6555.34	736.82	6516.85	660119.22	492485.78	32°21'10.4151"N	103°48'53.3455"W	0.00	0.00	0.00	
17227.00†	88.818	85.290	11153.33	6655.32	745.03	6616.49	660218.85	492493.98	32°21'10.4916"N	103°48'52.1836"W	0.00	0.00	0.00	
17327.00†	88.818	85.290	11155.39	6755.29	753.24	6716.13	660318.49	492502.19	32°21'10.5680"N	103°48'51.0216"W	0.00	0.00	0.00	
17427.00†	88.818	85.290	11157.45	6855.27	761.45	6815.77	660418.12	492510.40	32°21'10.6445"N	103°48'49.8597"W	0.00	0.00	0.00	
17527.00†	88.818	85.290	11159.52	6955.25	769.66	6915.41	660517.76	492518.61	32°21'10.7210"N	103°48'48.6977"W	0.00	0.00	0.00	
17627.00†	88.818	85.290	11161.58	7055.23	777.87	7015.05	660617.39	492526.82	32°21'10.7974"N	103°48'47.5358"W	0.00	0.00	0.00	
17727.00†	88.818	85.290	11163.64	7155.21	786.08	7114.69	660717.03	492535.03	32°21'10.8738"N	103°48'46.3738"W	0.00	0.00	0.00	
17827.00†	88.818	85.290	11165.71	7255.19	794.29	7214.34	660816.66	492543.24	32°21'10.9503"N	103°48'45.2119"W	0.00	0.00	0.00	
17927.00†	88.818	85.290	11167.77	7355.17	802.50	7313.98	660916.29	492551.45	32°21'11.0267"N	103°48'44.0499"W	0.00	0.00	0.00	
18027.00†	88.818	85.290	11169.83	7455.15	810.71	7413.62	661015.93	492559.66	32°21'11.1032"N	103°48'42.8880"W	0.00	0.00	0.00	
18127.00†	88.818	85.290	11171.90	7555.12	818.92	7513.26	661115.56	492567.87	32°21'11.1796"N	103°48'41.7260"W	0.00	0.00	0.00	
18227.00†	88.818	85.290	11173.96	7655.10	827.13	7612.90	661215.20	492576.08	32°21'11.2560"N	103°48'40.5640"W	0.00	0.00	0.00	
18327.00†	88.818	85.290	11176.02	7755.08	835.34	7712.54	661314.83	492584.29	32°21'11.3325"N	103°48'39.4021"W	0.00	0.00	0.00	
18427.00†	88.818	85.290	11178.09	7855.06	843.55	7812.18	661414.47	492592.50	32°21'11.4089"N	103°48'38.2401"W	0.00	0.00	0.00	
18527.00†	88.818	85.290	11180.15	7955.04	851.76	7911.82	661514.10	492600.71	32°21'11.4853"N	103°48'37.0782"W	0.00	0.00	0.00	
18627.00†	88.818	85.290	11182.21	8055.02	859.97	8011.46	661613.74	492608.92	32°21'11.5617"N	103°48'35.9162"W	0.00	0.00	0.00	
18727.00†	88.818	85.290	11184.28	8155.00	868.18	8111.11	661713.37	492617.13	32°21'11.6382"N	103°48'34.7542"W	0.00	0.00	0.00	
18827.00†	88.818	85.290	11186.34	8254.98	876.39	8210.75	661813.01	492625.34	32°21'11.7146"N	103°48'33.5923"W	0.00	0.00	0.00	
18927.00†	88.818	85.290	11188.41	8354.95	884.60	8310.39	661912.64	492633.55	32°21'11.7910"N	103°48'32.4303"W	0.00	0.00	0.00	
19027.00†	88.818	85.290	11190.47	8454.93	892.81	8410.03	662012.27	492641.76	32°21'11.8674"N	103°48'31.2684"W	0.00	0.00	0.00	
19127.00†	88.818	85.290	11192.53	8554.91	901.02	8509.67	662111.91	492649.96	32°21'11.9438"N	103°48'30.1064"W	0.00	0.00	0.00	
19147.97	88.818	85.290	11192.97	8575.87	902.75	8530.56	662132.80	492651.69	32°21'11.9598"N	103°48'29.8628"W	0.00	0.00	0.00	LTP
19198.15	88.818	85.290	11194.00	8626.05	906.87	8580.57	662182.80	492655.81	32°21'11.9982"N	103°48'29.2797"W	0.00	0.00	0.00	PBHL (50' FEL)



Planned Wellpath Report

JRU DI 8 Eagle #110H Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO Energy Inc.	Well	JRU DI 8 Eagle #110H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #110H
Slot	JRU DI 8 Eagle #110H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) JRU DI 8 Eagle #110H FTP	11614.56	11042.00	251.72	1028.47	654631.20	492000.70	32°21'5.8734"N	103°49'57.3486"W	point
JRU DI 8 Eagle #110H LTP	N/A	11192.96	902.26	8530.56	662132.80	492651.20	32°21'11.9550"N	103°48'29.8628"W	point
JRU DI 8 Eagle #110H BHL	N/A	11194.00	906.56	8580.57	662182.80	492655.50	32°21'11.9951"N	103°48'29.2797"W	rectangle
2D Rectangle 7580.39 x 100.									

SURVEY PROGRAM - Ref Wellbore: JRU DI 8 Eagle #110H Ref Wellpath: JRU DI 8 Eagle #110H Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	10489.31	BH NaviTrak (2019) (Standard)		JRU DI 8 Eagle #110H
10489.31	19198.15	OWSG MWD rev2 + IFR1 + Multi-Station Correction		JRU DI 8 Eagle #110H