

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM0404441

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
891000558X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
JAMES RANCH UNIT DI 8 EAGLE 111H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.

30-015-46753-00-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
WC WOLFCAMP

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

Sec 36 T22S R30E SENW 1734FNL 2037FWL

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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	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 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:

Update casing/cement design per the attached.

Change well name from James Ranch Unit DI 8 BS3-1W 275H to James Ranch Unit DI 8 Eagle 111H.

Change formation from Los Medanos Bone Spring to Wildcat Wolfcamp.

Change SHL from 2072'FNL & 1837'FWL to 1734'FNL & 2037'FWL. No Surface Disturbance

Change BHL from 333'FNL & 2440'FEL in Sec. 33-T22S-R30E to 2310'FSL & 50'FEL in Sec. 31-T22S-R31E

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

Electronic Submission #504367 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 02/25/2020 (20PP1349SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 02/25/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTEDTY ALLEN
Assistant Field Manager Resources

Date 03/10/2020

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 ****

Additional data for EC transaction #504367 that would not fit on the form

32. Additional remarks, continued

In any instance where a 10M BOP is required, XTO requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

Attachments:

Casing/Cement Design

Multibowl Diagram

5M10M Diagram / Well Control Plan

Directional Plan

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DEPARTMENT OF THE INTERIOR
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☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
JAMES RANCH UNIT DI 8 BS3-1W 275H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.

30-015-46753-00-X1

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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
GATUNA CANYON-BONE SPRING

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

Sec 36 T22S R30E SENW 2072FNL 1837FWL
32.350147 N Lat, 103.836975 W Lon

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
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	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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Change BHL from 333'FNL & 2440'FEL in Sec. 33-T22S-R30E to 2310'FSL & 50'FEL in Sec. 31-T22S-R31E ✓

AM/03-06-2020:

- Casing/cement OK ✓
- Name change ✓
- Formation fix ✓
- BHL ✓
- BOP variance ✓
- same COA's apply ✓

Surface good 3-9-2020 Same COA's 2R

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For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 02/25/2020 (20PP1349SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 02/25/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

AFM - RESOURCES

Date

10 Mar 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

LWMP02300 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.

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Attachments:

Casing/Cement Design

Multibowl Diagram

5M10M Diagram / Well Control Plan

Directional Plan

James Ranch Unit DI 8 Eagle 111H
 Projected TD: 19376' MD / 11043' TVD
 SHL: 1734' FNL & 2037' FWL, Section 36, T22S, R30E
 BHL: 2310' FSL & 50' FEL, Section 31, T22S, R31E
 Eddy County, NM

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' - 574'	18-5/8"	87.5	STC	H-40	New	1.47	2.43	11.13
17-1/2"	0' - 3640'	13-3/8"	68	STC	J-55	New	1.69	1.73	2.73
12-1/4"	0' - 7888'	9-5/8"	40	LTC	HCL-80	New	1.71	1.87	2.30
8-3/4"	0' - 19376'	5-1/2"	17	BTC	P-110	New	1.01	1.29	2.35

- 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

Cement Program

Surface Casing:

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

1st Intermediate Casing:

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

2nd Intermediate Casing:

ECP/DV Tool to be set at 3741'

1st Stage

Lead: 600 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 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

Production Casing:

Tail: 1900 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft³/sx, 8.38 gal/sx water) Top of Cement:
 Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

More cement required in 2nd Int.
 800 sacks in 1st stage lead
 600 sack in 2nd stage lead

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 574'	24"	FW/Native	8.4-8.8	35-40	NC
574' - 3640'	17-1/2"	Brine	9.8-10.2	30-32	NC
3640' to 7888'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
7888' to 19376'	8-3/4"	Cut Brine / Polymer	9.8 - 10.1	29-32	NC - 20

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

XTO Energy Inc.

James Ranch Unit DI 8 Eagle 111H
Projected TD: 19376' MD / 11043' TVD
SHL: 1734' FNL & 2037' FWL , Section 36, T22S, R30E
BHL: 2310' FSL & 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	292'	Water
Top of Salt	599'	Water
Base of Salt	3591'	Water
Delaware	3834'	Water
Bone Spring Lime	7661'	Water
1st Bone Spring Ss	8702'	Water/Oil/Gas
2nd Bone Spring Ss	9535'	Water/Oil/Gas
3rd Bone Spring Carb	9818'	Water/Oil/Gas
3rd Bone Spring Ss	10539'	Water/Oil/Gas
Wolfcamp	10951'	Water/Oil/Gas
Target/Land Curve	11043'	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 @ 574' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8" inch casing at 3640' 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 7888' 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 7388 feet) per Potash regulations.

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 574'	18-5/8"	87.5	STC	H-40	New	1.47	2.43	11.13
17-1/2"	0' – 3640'	13-3/8"	68	STC	J-55	New	1.69	1.73	2.73
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· 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 +/- 574'

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 +/- 3640'

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 +/- 7888'

ECP/DV Tool to be set at 3741'

1st Stage

Lead: 1210 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 +/- 19376'

Tail: 1900 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water) Top of Cement: **7388 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 1111 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 3370 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' - 574'	24"	FW/Native	8.4-8.8	35-40	NC
574' - 3640'	17-1/2"	Brine	9.8-10.2	30-32	NC
3640' to 7888'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
7888' to 19376'	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.

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 30-015-46753	² Pool Code	³ Pool Name WILDCAT; WOLFCAMP
⁴ Property Code	⁵ Property Name JAMES RANCH UNIT DI 8 EAGLE	⁶ Well Number 111H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,317'

¹⁰ Surface Location

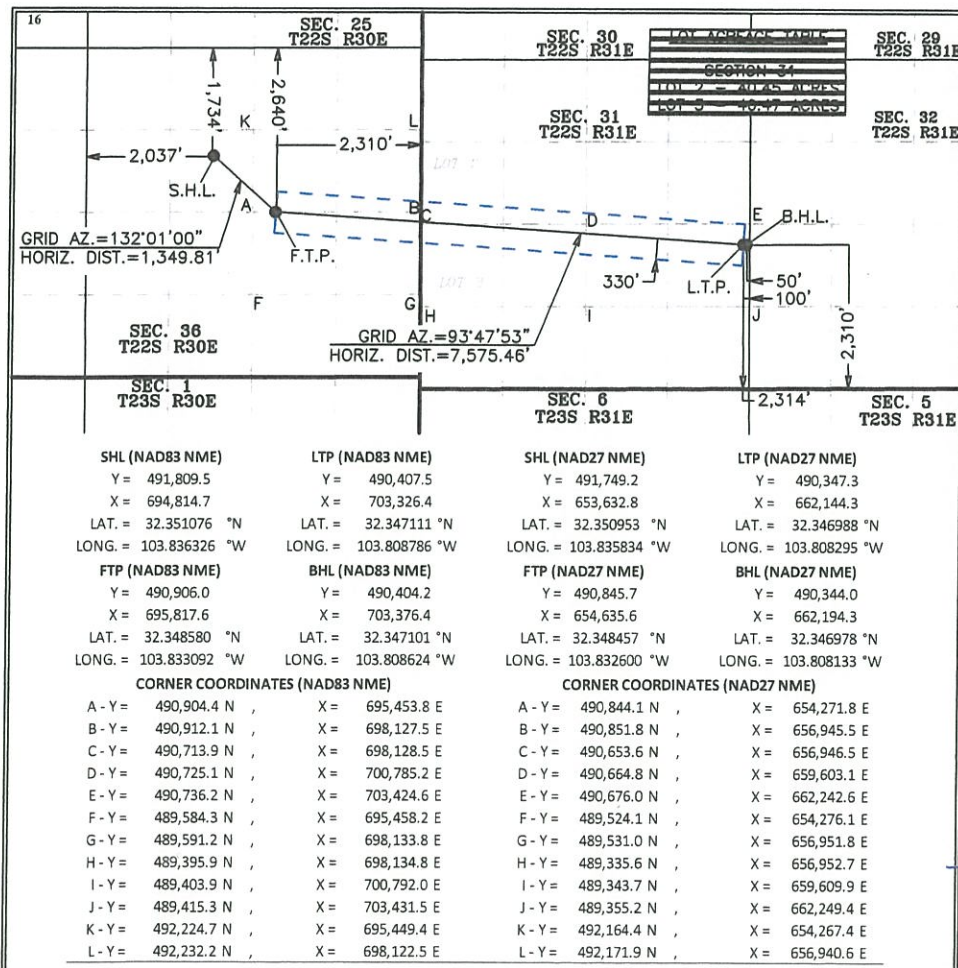
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	22 S	30 E		1,734	NORTH	2,037	WEST	EDDY

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
I	31	22 S	31 E		2,310	SOUTH	50	EAST	EDDY

¹² Dedicated Acres 480.92	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

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

Kelly Kardos 1-27-20
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.

01-24-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number



GM/JC 2019072363

Intent ☒ As Drilled ☐

API #
30-015-46753

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: JAMES RANCH UNIT DI 8 EAGLE	Well Number 111H
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Kick Off Point (KOP)

UL F	Section 36	Township 22S	Range 30E	Lot	Feet 1734	From N/S NORTH	Feet 2037	From E/W WEST	County EDDY
Latitude 32.351076					Longitude -103.836326			NAD 83	

First Take Point (FTP)

UL J	Section 20	Township 22S	Range 30E	Lot	Feet 2640	From N/S NORTH	Feet 2310	From E/W EAST	County EDDY
Latitude 32.348580					Longitude -103.833092			NAD 83	

Last Take Point (LTP)

UL I	Section 31	Township 22S	Range 31E	Lot	Feet 2314	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.347111					Longitude -103.808786			NAD 83	

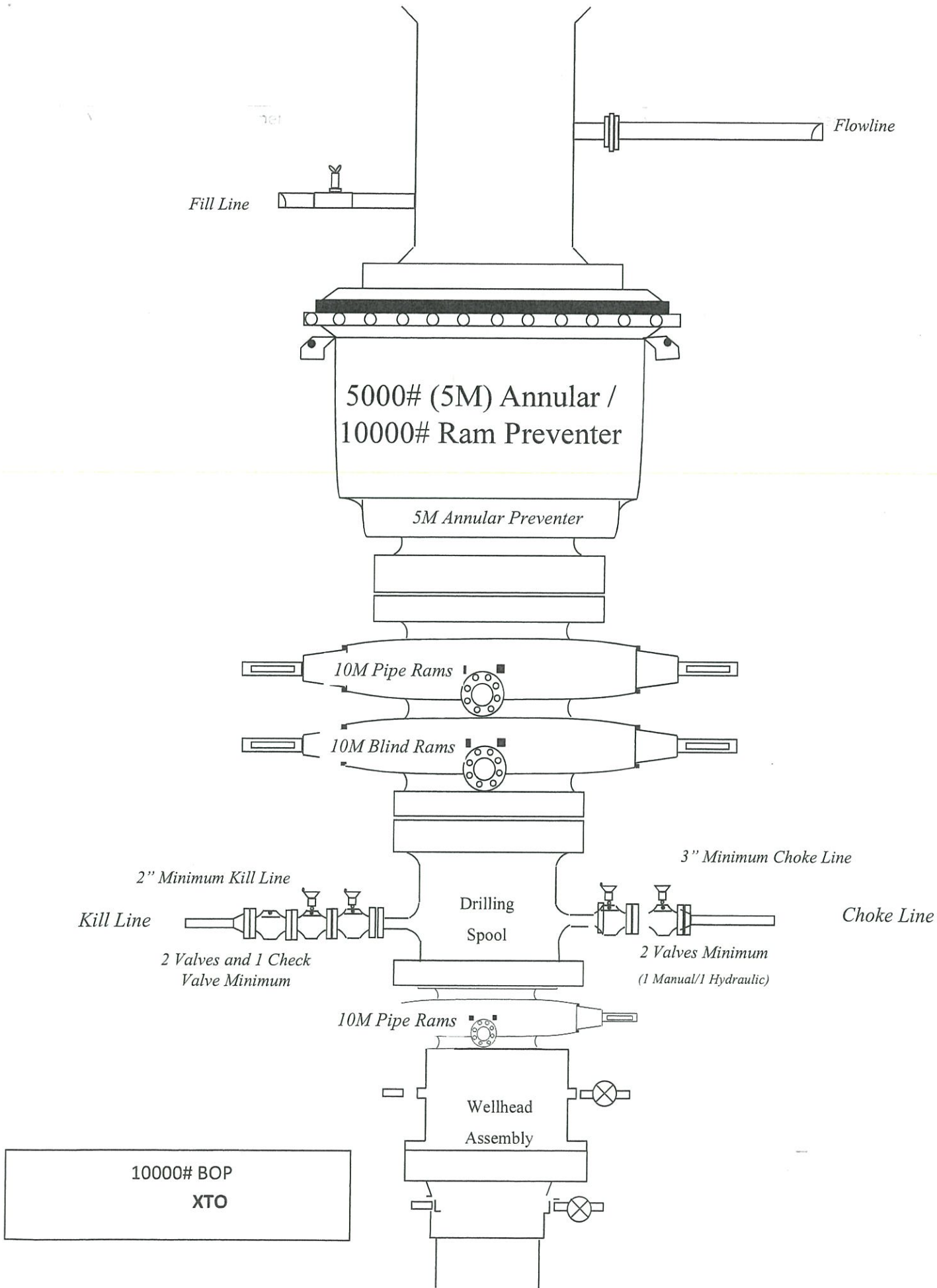
Is this well the defining well for the Horizontal Spacing Unit? ☒

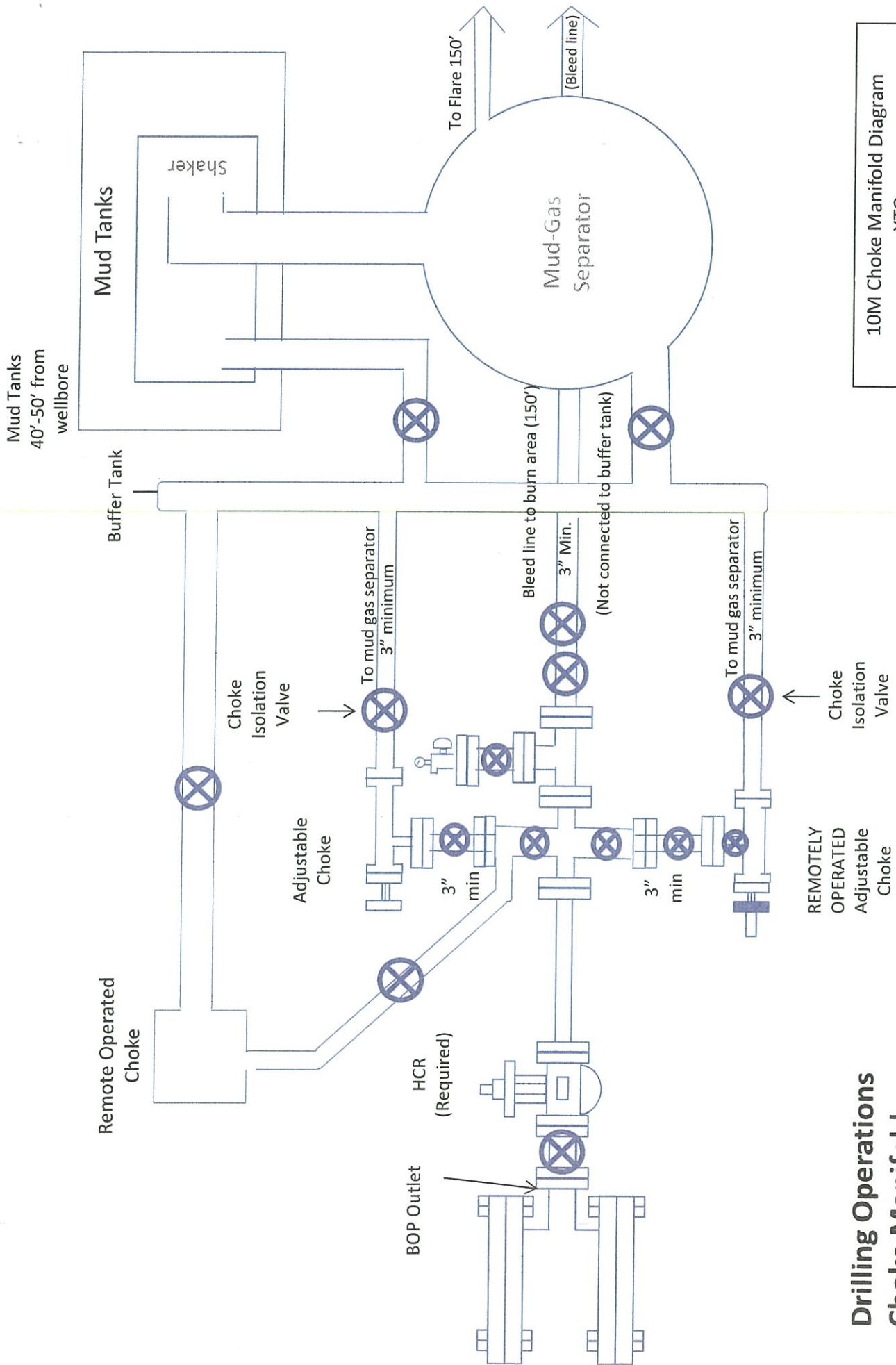
Is this well an infill well? ☐

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

API #		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name:	Well Number

KZ 06/29/2018





Drilling Operations Choke Manifold 10M Service

10M Choke Manifold Diagram
XTO

10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

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



Planned Wellpath Report

JRU DI 8 Eagle #111H Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Well	JRU DI 8 Eagle #111H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #111H
Slot	JRU DI 8 Eagle #111H		

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 09:42
Convergence at slot	0.27° East	Database	WA_HOU_Midland_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	0.20	30.00	491749.20	32°21'3.4307"N	103°50'9.0010"W	
Facility Reference Pt			653602.80	32°21'3.4301"N	103°50'9.3507"W	
Field Reference Pt			152400.30	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 #111H)	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	93.80°



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Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #111H
Slot	JRU DI 8 Eagle #111H		

WELLPATH DATA (206 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	175.000	0.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
25.00	0.000	175.000	25.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
27.00†	0.000	175.000	27.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	Tie On
127.00†	0.000	175.000	127.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
227.00†	0.000	175.000	227.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
327.00†	0.000	175.000	327.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
427.00†	0.000	175.000	427.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
527.00†	0.000	175.000	527.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
627.00†	0.000	175.000	627.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
727.00†	0.000	175.000	727.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
827.00†	0.000	175.000	827.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
927.00†	0.000	175.000	927.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1027.00†	0.000	175.000	1027.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1127.00†	0.000	175.000	1127.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1227.00†	0.000	175.000	1227.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1327.00†	0.000	175.000	1327.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1427.00†	0.000	175.000	1427.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1527.00†	0.000	175.000	1527.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1627.00†	0.000	175.000	1627.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1727.00†	0.000	175.000	1727.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1800.00	0.000	175.000	1800.00	0.00	0.00	0.00	653632.80	491749.20	32°21'3.4307"N	103°50'9.0010"W	0.00	0.00	0.00	
1827.00†	0.540	175.000	1827.00	0.02	-0.13	0.01	653632.81	491749.07	32°21'3.4294"N	103°50'9.0009"W	2.00	2.00	0.00	Begin Nudge
1927.00†	2.540	175.000	1926.96	0.43	-2.80	0.25	653633.05	491748.40	32°21'3.4029"N	103°50'8.9983"W	2.00	2.00	0.00	
2027.00†	4.540	175.000	2026.76	1.38	-8.95	0.78	653633.58	491740.25	32°21'3.3420"N	103°50'8.9923"W	2.00	2.00	0.00	
2127.00†	6.540	175.000	2126.29	2.85	-18.57	1.92	653634.42	491730.63	32°21'3.2468"N	103°50'8.9831"W	2.00	2.00	0.00	
2227.00†	8.540	175.000	2225.42	4.86	-31.64	2.77	653635.57	491717.56	32°21'3.1174"N	103°50'8.9704"W	2.00	2.00	0.00	
2300.00	10.000	175.000	2297.47	6.66	-43.36	3.79	653636.59	491705.85	32°21'3.0015"N	103°50'8.9591"W	2.00	2.00	0.00	End of Build
2327.00†	10.000	175.000	2324.06	7.37	-48.03	4.20	653637.00	491701.18	32°21'2.9552"N	103°50'8.9546"W	0.00	0.00	0.00	
2427.00†	10.000	175.000	2422.54	10.03	-65.33	5.72	653638.51	491683.88	32°21'2.7840"N	103°50'8.9379"W	0.00	0.00	0.00	
2527.00†	10.000	175.000	2521.02	12.69	-82.63	7.23	653640.03	491666.58	32°21'2.6128"N	103°50'8.9212"W	0.00	0.00	0.00	



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Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #111H
Slot	JRU DI 8 Eagle #111H		

WELLPATH DATA (206 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	175.000	2619.50	15.34	-99.92	8.74	653641.54	491649.28	32°21'2.4415"N	103°50'8.9045"W	0.00	0.00	0.00	
2727.00†	10.000	175.000	2717.98	18.00	-117.22	10.26	653643.05	491631.99	32°21'2.2703"N	103°50'8.8878"W	0.00	0.00	0.00	
2827.00†	10.000	175.000	2816.46	20.66	-134.52	11.77	653644.57	491614.69	32°21'2.0990"N	103°50'8.8711"W	0.00	0.00	0.00	
2927.00†	10.000	175.000	2914.94	23.31	-151.82	13.28	653646.08	491597.39	32°21'1.9278"N	103°50'8.8544"W	0.00	0.00	0.00	
3027.00†	10.000	175.000	3013.42	25.97	-169.12	14.80	653647.60	491580.09	32°21'1.7565"N	103°50'8.8377"W	0.00	0.00	0.00	
3127.00†	10.000	175.000	3111.90	28.62	-186.42	16.31	653649.11	491562.79	32°21'1.5853"N	103°50'8.8210"W	0.00	0.00	0.00	
3227.00†	10.000	175.000	3210.38	31.28	-203.72	17.82	653650.62	491545.50	32°21'1.4141"N	103°50'8.8043"W	0.00	0.00	0.00	
3327.00†	10.000	175.000	3308.86	33.94	-221.02	19.34	653652.14	491528.20	32°21'1.2428"N	103°50'8.7876"W	0.00	0.00	0.00	
3427.00†	10.000	175.000	3407.34	36.59	-238.31	20.85	653653.65	491510.90	32°21'1.0716"N	103°50'8.7709"W	0.00	0.00	0.00	
3527.00†	10.000	175.000	3505.82	39.25	-255.61	22.36	653655.16	491493.60	32°21'0.9003"N	103°50'8.7542"W	0.00	0.00	0.00	
3627.00†	10.000	175.000	3604.31	41.91	-272.91	23.88	653656.68	491476.31	32°21'0.7291"N	103°50'8.7375"W	0.00	0.00	0.00	
3727.00†	10.000	175.000	3702.79	44.56	-290.21	25.39	653658.19	491459.01	32°21'0.5578"N	103°50'8.7207"W	0.00	0.00	0.00	
3827.00†	10.000	175.000	3801.27	47.22	-307.51	26.90	653659.70	491441.71	32°21'0.3866"N	103°50'8.7040"W	0.00	0.00	0.00	
3927.00†	10.000	175.000	3899.75	49.88	-324.81	28.42	653661.22	491424.41	32°21'0.2154"N	103°50'8.6873"W	0.00	0.00	0.00	
4027.00†	10.000	175.000	3998.23	52.53	-342.11	29.93	653662.73	491407.12	32°21'0.0441"N	103°50'8.6706"W	0.00	0.00	0.00	
4127.00†	10.000	175.000	4096.71	55.19	-359.40	31.44	653664.24	491389.82	32°20'59.8729"N	103°50'8.6539"W	0.00	0.00	0.00	
4227.00†	10.000	175.000	4195.19	57.84	-376.70	32.96	653665.76	491372.52	32°20'59.7016"N	103°50'8.6372"W	0.00	0.00	0.00	
4327.00†	10.000	175.000	4293.67	60.50	-394.00	34.47	653667.27	491355.22	32°20'59.5304"N	103°50'8.6205"W	0.00	0.00	0.00	
4427.00†	10.000	175.000	4392.15	63.16	-411.30	35.98	653668.78	491337.93	32°20'59.3591"N	103°50'8.6038"W	0.00	0.00	0.00	
4527.00†	10.000	175.000	4490.63	65.81	-428.60	37.50	653670.30	491320.63	32°20'59.1879"N	103°50'8.5871"W	0.00	0.00	0.00	
4627.00†	10.000	175.000	4589.11	68.47	-445.90	39.01	653671.81	491303.33	32°20'59.0166"N	103°50'8.5704"W	0.00	0.00	0.00	
4727.00†	10.000	175.000	4687.59	71.13	-463.20	40.52	653673.32	491286.03	32°20'58.8454"N	103°50'8.5537"W	0.00	0.00	0.00	
4827.00†	10.000	175.000	4786.07	73.78	-480.50	42.04	653674.84	491268.74	32°20'58.6742"N	103°50'8.5370"W	0.00	0.00	0.00	
4927.00†	10.000	175.000	4884.56	76.44	-497.79	43.55	653676.35	491251.44	32°20'58.5029"N	103°50'8.5203"W	0.00	0.00	0.00	
5027.00†	10.000	175.000	4983.04	79.09	-515.09	45.06	653677.86	491234.14	32°20'58.3317"N	103°50'8.5036"W	0.00	0.00	0.00	
5127.00†	10.000	175.000	5081.52	81.75	-532.39	46.58	653679.38	491216.84	32°20'58.1604"N	103°50'8.4869"W	0.00	0.00	0.00	
5227.00†	10.000	175.000	5180.00	84.41	-549.69	48.09	653680.89	491199.55	32°20'57.9892"N	103°50'8.4702"W	0.00	0.00	0.00	
5327.00†	10.000	175.000	5278.48	87.06	-566.99	49.61	653682.40	491182.25	32°20'57.8179"N	103°50'8.4535"W	0.00	0.00	0.00	
5427.00†	10.000	175.000	5376.96	89.72	-584.29	51.12	653683.92	491164.95	32°20'57.6467"N	103°50'8.4368"W	0.00	0.00	0.00	
5527.00†	10.000	175.000	5475.44	92.38	-601.59	52.63	653685.43	491147.65	32°20'57.4755"N	103°50'8.4201"W	0.00	0.00	0.00	



Planned Wellpath Report

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Operator	XTO Energy Inc.	Well	JRU DI 8 Eagle #111H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #111H
Slot	JRU DI 8 Eagle #111H		

WELLPATH DATA (206 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
5627.00†	10.000	175.000	5573.92	95.03	-618.89	54.15	653686.94	491130.35	32°20'57.3042"N	103°50'8.4034"W	0.00	0.00	0.00	
5727.00†	10.000	175.000	5672.40	97.69	-636.18	55.66	653688.46	491113.06	32°20'57.1330"N	103°50'8.3867"W	0.00	0.00	0.00	
5827.00†	10.000	175.000	5770.88	100.34	-653.48	57.17	653689.97	491095.76	32°20'56.9617"N	103°50'8.3700"W	0.00	0.00	0.00	
5927.00†	10.000	175.000	5869.36	103.00	-670.78	58.69	653691.48	491078.46	32°20'56.7905"N	103°50'8.3533"W	0.00	0.00	0.00	
6027.00†	10.000	175.000	5967.84	105.86	-688.08	60.20	653693.00	491061.16	32°20'56.6192"N	103°50'8.3366"W	0.00	0.00	0.00	
6127.00†	10.000	175.000	6066.32	108.31	-705.38	61.71	653694.51	491043.87	32°20'56.4480"N	103°50'8.3198"W	0.00	0.00	0.00	
6227.00†	10.000	175.000	6164.81	110.97	-722.68	63.23	653696.02	491026.57	32°20'56.2768"N	103°50'8.3031"W	0.00	0.00	0.00	
6327.00†	10.000	175.000	6263.29	113.63	-739.98	64.74	653697.54	491009.27	32°20'56.1055"N	103°50'8.2864"W	0.00	0.00	0.00	
6427.00†	10.000	175.000	6361.77	116.28	-757.28	66.25	653699.05	490991.97	32°20'55.9343"N	103°50'8.2697"W	0.00	0.00	0.00	
6527.00†	10.000	175.000	6460.25	118.94	-774.57	67.77	653700.56	490974.68	32°20'55.7630"N	103°50'8.2530"W	0.00	0.00	0.00	
6627.00†	10.000	175.000	6558.73	121.59	-791.87	69.28	653702.08	490957.38	32°20'55.5918"N	103°50'8.2363"W	0.00	0.00	0.00	
6700.00	10.000	175.000	6630.62	123.53	-804.50	70.38	653703.18	490944.75	32°20'55.4668"N	103°50'8.2241"W	0.00	0.00	0.00	End of Hold
6727.00†	9.460	175.000	6657.23	124.23	-809.05	70.78	653703.58	490940.21	32°20'55.4218"N	103°50'8.2197"W	2.00	-2.00	0.00	
6827.00†	7.460	175.000	6756.14	126.48	-823.70	72.06	653704.86	490925.55	32°20'55.2767"N	103°50'8.2056"W	2.00	-2.00	0.00	
6927.00†	5.460	175.000	6855.50	128.20	-834.91	73.05	653705.84	490914.34	32°20'55.1658"N	103°50'8.1948"W	2.00	-2.00	0.00	
7027.00†	3.460	175.000	6955.19	129.39	-842.66	73.72	653706.52	490906.60	32°20'55.0891"N	103°50'8.1873"W	2.00	-2.00	0.00	
7127.00†	1.460	175.000	7055.09	130.05	-846.93	74.10	653706.89	490902.32	32°20'55.0467"N	103°50'8.1832"W	2.00	-2.00	0.00	
7200.00	0.000	93.432	7128.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	2.00	-2.00	0.00	Vertical
7227.00†	0.000	93.432	7155.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7327.00†	0.000	93.432	7255.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7427.00†	0.000	93.432	7355.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7527.00†	0.000	93.432	7455.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7627.00†	0.000	93.432	7555.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7727.00†	0.000	93.432	7655.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7827.00†	0.000	93.432	7755.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
7927.00†	0.000	93.432	7855.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8027.00†	0.000	93.432	7955.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8127.00†	0.000	93.432	8055.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8227.00†	0.000	93.432	8155.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8327.00†	0.000	93.432	8255.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	



Planned Wellpath Report

JRU DI 8 Eagle #111H Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Well	JRU DI 8 Eagle #111H
Field	Wolfcamp (Eddy Co., NM)	API/Legal	
Facility	JRU DI 8 Eagle Pad	Wellbore	JRU DI 8 Eagle #111H
Slot	JRU DI 8 Eagle #111H		

WELLPATH DATA (206 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	93.432	8355.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8527.00†	0.000	93.432	8455.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8627.00†	0.000	93.432	8555.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8727.00†	0.000	93.432	8655.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8827.00†	0.000	93.432	8755.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
8927.00†	0.000	93.432	8855.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9027.00†	0.000	93.432	8955.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9127.00†	0.000	93.432	9055.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9227.00†	0.000	93.432	9155.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9327.00†	0.000	93.432	9255.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9427.00†	0.000	93.432	9355.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9527.00†	0.000	93.432	9455.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9627.00†	0.000	93.432	9555.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9727.00†	0.000	93.432	9655.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9827.00†	0.000	93.432	9755.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
9927.00†	0.000	93.432	9855.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10027.00†	0.000	93.432	9955.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10127.00†	0.000	93.432	10055.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10227.00†	0.000	93.432	10155.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10327.00†	0.000	93.432	10255.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10427.00†	0.000	93.432	10355.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10527.00†	0.000	93.432	10455.08	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10540.96	0.000	93.432	10469.04	130.19	-847.86	74.18	653706.97	490901.40	32°20'55.0376"N	103°50'8.1823"W	0.00	0.00	0.00	
10627.00†	8.604	93.432	10554.76	136.64	-848.24	80.61	653713.41	490901.01	32°20'55.0335"N	103°50'8.1073"W	10.00	10.00	0.00	Curve KOP
10727.00†	18.604	93.432	10651.83	160.13	-849.65	104.06	653736.86	490899.60	32°20'55.0185"N	103°50'7.8340"W	10.00	10.00	0.00	
10827.00†	28.604	93.432	10743.35	200.12	-852.05	143.98	653776.77	490897.21	32°20'54.9929"N	103°50'7.3688"W	10.00	10.00	0.00	
10927.00†	38.604	93.432	10826.53	255.39	-855.35	199.16	653831.95	490893.90	32°20'54.9576"N	103°50'6.7259"W	10.00	10.00	0.00	
11027.00†	48.604	93.432	10898.85	324.27	-859.48	287.92	653900.70	490889.78	32°20'54.9137"N	103°50'5.9246"W	10.00	10.00	0.00	
11127.00†	58.604	93.432	10956.11	404.66	-864.29	348.16	653980.94	490884.97	32°20'54.8624"N	103°50'4.9895"W	10.00	10.00	0.00	
11227.00†	68.604	93.432	11002.51	494.12	-869.65	437.46	654070.24	490879.61	32°20'54.8052"N	103°50'3.9489"W	10.00	10.00	0.00	