

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.
NMNM130866

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 ☐ Other

8. Well Name and No.

JAMES RANCH UNIT DI 12 ELKHORN 702H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.

30-015-46378-00-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

WILDCAT BONE SPRING

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

Sec 33 T21S R30E SWSW 429FSL 1966FWL

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 A
	☐ Convert to Injection	☐ Plug Back	☐ 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:

Casing & cement design per the attached drilling program.

Change Name from James Ranch Unit DI 12 BS2-1E 267H to James Ranch Unit DI 12 Elkhorn 702H.

Change SHL from 920FSL & 550FWL to 429FSL & 1966FWL. No Surface Disturbance

Change BHL from 660FNL & 200FEL to 330FSL & 50FEL

Attachments:

Updated C102 & Supplement

SHL/BHL entered 04/24/2020 - KMS NMOCD

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

**Electronic Submission #509699 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 04/06/2020 (20PP1938SE)**

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 04/06/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

CODY LAYTON

Title ASSIST FIELD MANAGER LANDS MINERALS

Date 04/22/2020

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 #509699 that would not fit on the form

32. Additional remarks, continued

Casing/Cement Design
Multibowl Diagram
Updated Directional Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #509699

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM130866	NMNM130866
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 12 BS2-1E 267H Sec 33 T21S R30E Mer NMP SWSW 429FSL 1966FWL	JAMES RANCH UNIT DI 12 ELKHORN 702H Sec 33 T21S R30E SWSW 429FSL 1966FWL

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- 46378	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name JAMES RANCH UNIT DI 12 ELKHORN	⁶ Well Number 702H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,144'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	21 S	30 E		429	SOUTH	1,966	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
P	34	21 S	30 E		330	SOUTH	50	EAST	EDDY

¹² Dedicated Acres	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.

¹⁶ SEC. 32 SEC. 33 T21S R30E GRID AZ.=105°51'37" HORIZ. DIST.=359.14' 2,311' 1,966' F G F.T.P. 330' H I J GRID AZ.=89°51'28" HORIZ. DIST.=8,197.67' L.T.P. 100' 50' S.H.L. 429' 330' SEC. 4 T22S R30E SEC. 3 330' 330' B.H.L. SEC. 2 SURFACE LOCATION NAD 27 NME Y= 520,275.7 X= 637,662.2 LAT.= 32.429561°N LONG.= 103.887163°W LAST TAKE POINT NAD 27 NME Y= 520,197.7 X= 646,155.3 LAT.= 32.429246°N LONG.= 103.859639°W FIRST TAKE POINT NAD 27 NME Y= 520,177.5 X= 638,007.6 LAT.= 32.429287°N LONG.= 103.886045°W BOTTOM HOLE LOCATION NAD 27 NME Y= 520,197.9 X= 646,205.3 LAT.= 32.429246°N LONG.= 103.859477°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 519,843.7 N, X= 635,697.7 E B - Y= 519,848.1 N, X= 638,339.0 E C - Y= 519,854.6 N, X= 640,977.6 E D - Y= 519,860.5 N, X= 643,617.4 E E - Y= 519,868.0 N, X= 646,256.7 E F - Y= 521,163.7 N, X= 635,693.0 E G - Y= 521,168.6 N, X= 638,333.5 E H - Y= 521,174.6 N, X= 640,972.3 E I - Y= 521,181.1 N, X= 643,612.1 E J - Y= 521,188.4 N, X= 646,250.9 E SURFACE LOCATION NAD 83 NME Y= 520,336.4 X= 678,843.4 LAT.= 32.429682°N LONG.= 103.887660°W LAST TAKE POINT NAD 83 NME Y= 520,258.4 X= 687,336.5 LAT.= 32.429368°N LONG.= 103.860135°W FIRST TAKE POINT NAD 83 NME Y= 520,238.2 X= 679,188.8 LAT.= 32.429409°N LONG.= 103.886542°W BOTTOM HOLE LOCATION NAD 83 NME Y= 520,258.6 X= 687,386.5 LAT.= 32.429368°N LONG.= 103.859973°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 519,904.4 N, X= 676,878.9 E B - Y= 519,908.8 N, X= 679,520.2 E C - Y= 519,915.3 N, X= 682,158.8 E D - Y= 519,921.2 N, X= 684,798.6 E E - Y= 519,928.7 N, X= 687,437.9 E F - Y= 521,224.4 N, X= 676,874.1 E G - Y= 521,229.3 N, X= 679,514.6 E H - Y= 521,235.3 N, X= 682,153.4 E I - Y= 521,241.8 N, X= 684,793.3 E J - Y= 521,249.1 N, X= 687,432.1 E	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. 07-19-2019 Date of Survey Signature and Seal of Professional Surveyor: _____ MARK DILLON HARP 23786 Certificate Number DH 2019072382
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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

James Ranch Unit DI 12 Elkhorn 702H
 Projected TD: 21448' MD / 9335' TVD
 SHL: 429' FSL & 1966' FWL , Section 33, T21S, R30E
 BHL: 330' FSL & 50' FEL , Section 34, T21S, R30E
 Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 330' (5' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 3200' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 7500' and 9-5/8 inch casing ran and cemented 500' into the 13-3/8 inch casing. An 8-3/4 inch pilot hole will be drilled to 12235' TVD/MD. An abandon plug will be set to plug back to 11582' TVD / MD to seal off the Strawn, Canyon, and Cisco formations. An additional plug will be set to plug back to 10475' TVD to seal off the Wolfcamp. A third abandon plug will be set to plug back to 8900' TVD / MD and a kickoff plug will be set to plug back to 8600' TVD / MD. A 8-1/2 inch curve and lateral hole will be drilled to 17861' MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 330'	18-5/8"	87.5	BTC	J-55	New	2.34	4.22	47.60
17-1/2"	0' – 3200'	13-3/8"	68	BTC	HCL-80	New	1.80	2.99	13.51
12-1/4"	0' – 7500'	9-5/8"	40	BTC	HCL-80	New	2.28	1.78	4.21
8-1/2"	0' – 17861'	5-1/2"	20	BTC	P-110	New	1.20	4.30	2.56

XTO requests to not utilize centralizers in the curve and lateral

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

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Permanent Wellhead – Multibowl System

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

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

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

Cement Program

Surface Casing:

Tail: 760 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

Previous wells in the area did not see returns throuought surface cement job and multiple 1" top outs.

Two additional 1" top out jobs will be attempted after the surface cement job. If the top of cement is notaffected by the two top out jobs, ~10-20 ppb gravel will be added on the backside of

Intermediate Casing:

1st Intermediate

Lead: 3660 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.94 ft3/sx, 9.61 gal/sx water)

Tail: 810 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.37 ft3/sx, 6.39 gal/sx water)

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

2nd Intermediate

ECP/DV Tool to be set at 3250'

1st Stage

Lead: 880 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 9.61 gal/sx water)

Tail: 210 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.92 ft3/sx, 6.39 gal/sx water)

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

2nd Stage

Lead: 720 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.94 ft3/sx, 9.61 gal/sx water)

Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

Production Casing:

Lead: 2460 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.29 ft3/sx, 9.61 gal/sx water)

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

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 330'	24"	FW / Native	8.4-8.8	35-40	NC
330' - 3200'	17-1/2"	Brine / Gel Sweeps	9.8-10.2	30-32	NC
3200' to 7500'	12-1/4"	FW / Cut Brine	9.1-9.5	29-32	NC - 20
7500' to 17861'	8-1/2"	FW / Cut Brine / Polymer/ OBM	9.7-10.3	32-50	NC - 20

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

XTO Energy Inc.
JRU DI 12 Elkhorn #702H
Projected TD: 17861' MD / 9335' TVD
SHL: 429' FSL & 1966' FWL , Section 33, T21S, R30E
BHL: 330' FSL & 50' FEL , Section 34, T21S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	69'	Water
Top of Salt	335'	Water
Base of Salt	3179'	Water
Delaware	3456'	Water
Bone Spring	7240'	Water/Oil/Gas
1st Bone Spring Ss	8210'	Water/Oil/Gas
2nd Bone Spring Ss	9020'	Water/Oil/Gas
Target/Land Curve	9335'	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 @ 330' (5' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 3200' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 7500' and 9-5/8 inch casing ran and cemented 500' into the 13-3/8 inch casing. An 8-3/4 inch pilot hole will be drilled to 12235' TVD/MD. An abandon plug will be set to plug back to 11582' TVD / MD to seal off the Strawn, Canyon, and Cisco formations. An additional plug will be set to plug back to 10475' TVD to seal off the Wolfcamp. A third abandon plug will be set to plug back to 8900' TVD / MD and a kickoff plug will be set to plug back to 8600' TVD / MD. A 8-1/2 inch curve and lateral hole will be drilled to 17861' MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 330'	18-5/8"	87.5	BTC	J-55	New	2.34	4.22	47.60
17-1/2"	0' – 3200'	13-3/8"	68	BTC	HCL-80	New	1.80	2.99	13.51
12-1/4"	0' – 7500'	9-5/8"	40	BTC	HCL-80	New	2.28	1.78	4.21
8-1/2"	0' – 17861'	5-1/2"	20	BTC	P-110	New	1.20	4.30	2.56

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

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

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Temporary Wellhead

- 18-5/8" SOW x 21-1/4" 3M top flange

Permanent Wellhead – GE RSH Multibowl System

- A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 5M top flange
- B. Tubing Head: 13-5/8" 15M bottom flange x 7-1/16" 15M top flange
 - Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 9-5/8" casing per Onshore Order 2.
 - Wellhead manufacturer representative may not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New J-55, BTC casing to be set at +/- 330'

Tail: 760 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

Previous wells in the area did not see returns throughout surface cement job and multiple 1" top outs.
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 HCL-80, BTC casing to be set at +/- 3200'

Lead: 3660 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.94 ft3/sx, 9.61 gal/sx water)

Tail: 810 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.37 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing (Stage 2): 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 7500'
ECP/DV Tool to be set at 3250'

1st Stage

Lead: 880 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 9.61 gal/sx water)

Tail: 210 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.92 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Stage

Lead: 720 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.94 ft3/sx, 9.61 gal/sx water)

Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Compressives:

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 17861'

Lead: 2460 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.29 ft3/sx, 9.61 gal/sx water)

Tail: 0 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft3/sx, 8.38 gal/sx water)
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

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 960 psi.

Once the permanent wellhead is installed the blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2801 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When the 13-3/8" and 9-5/8" casing is set, the packoff seals will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 330'	24"	FW/Native	8.4-8.8	35-40	NC
330' to 3200'	17-1/2"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3200' to 7500'	12-1/4"	FW / Cut Brine	9.1-9.5	29-32	NC - 20
7500' to 17861'	8-1/2"	FW / Cut Brine / Polymer/	9.7-10.3	32-50	NC - 20

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

Spud with fresh water/native mud. Drill out from under 18.625" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- 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) from surface to TD.

Coring includes sidewall cores in the first and second intermediate hole sections.

Open hole logging will include Quad combo (GR, Neu, Den, Sonic), NMR, and XRF in the first and second intermediate hole sections.

9. Abnormal Pressures and Temperatures / Potential Hazards

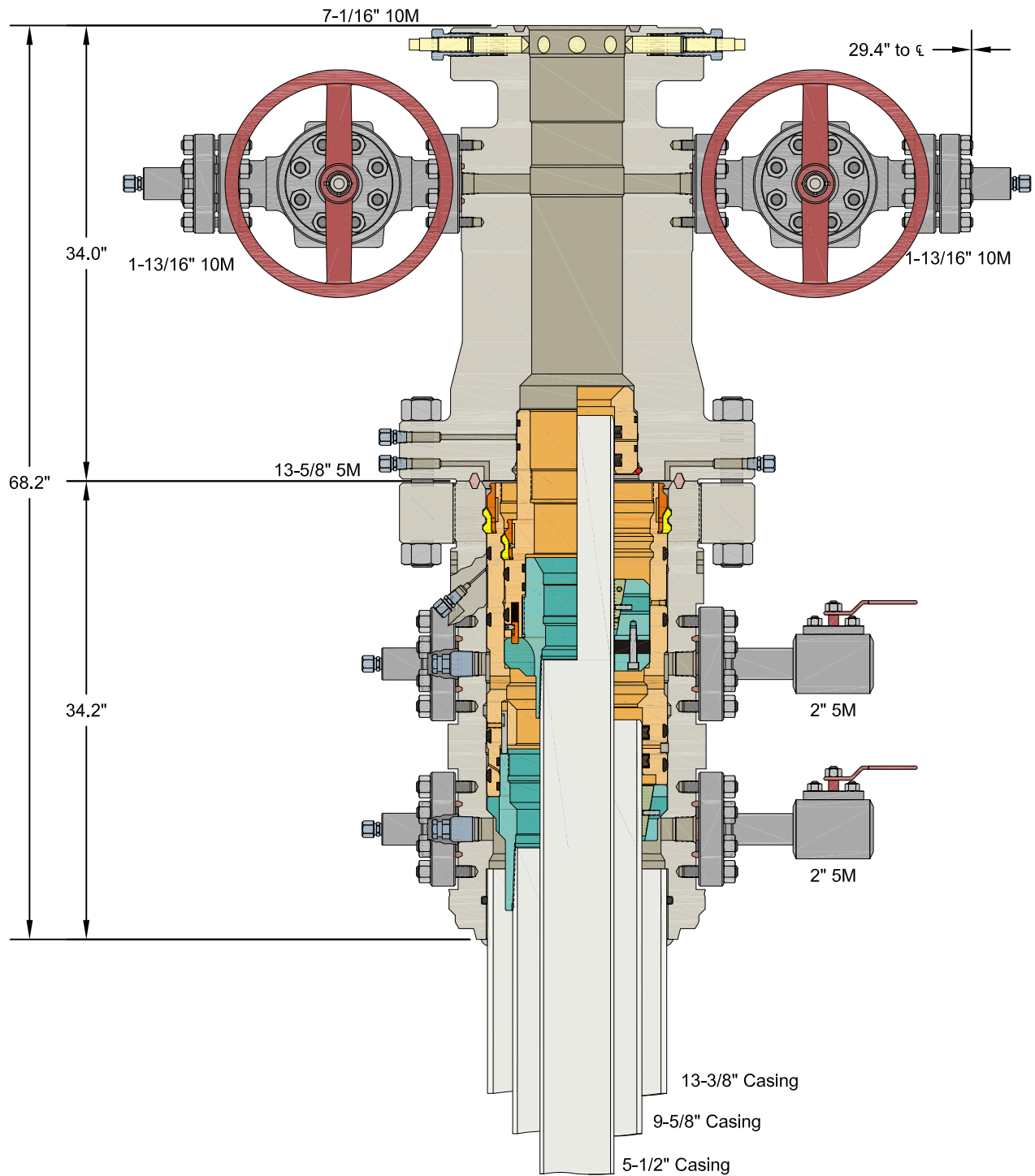
None

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

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XTO ENERGY, INC.

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

DRAWN VJK 16FEB17

APPRV KN 16FEB17

FOR REFERENCE ONLY
DRAWING NO. 10012842

XTO Energy Inc.

**Eddy County, NM
JRU D1 12 Elkhorn
702H**

ST01

Plan: Plan 2

Standard Planning Report

02 April, 2020

Legacy Directional

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 702H
Company:	XTO Energy Inc.	TVD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Project:	Eddy County, NM	MD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	JRU D1 12 Elkhorn		
Site Position:		Northing:	520,275.70 usft
From:	Map	Easting:	637,662.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.429561
		Longitude:	-103.887164
		Grid Convergence:	0.24 °

Well	702H		
Well Position	+N/-S	0.00 usft	Northing: 520,275.70 usft
	+E/-W	0.00 usft	Easting: 637,662.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.429561
			Longitude: -103.887164
			Ground Level: 3,144.00 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2020	4/1/2020	6.86	60.08	47,713.38070436

Design	Plan 2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	3,300.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.86

Plan Survey Tool Program	Date	4/2/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	3,300.00	17,860.89	Plan 2 (ST01)	MWD+IFR1+FDIR
				OWSG MWD + IFR1 + FDIR C

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Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,823.44	5.23	245.35	3,822.71	-9.97	-21.72	1.00	1.00	0.00	245.35	
5,916.89	5.23	245.35	5,907.43	-89.63	-195.29	0.00	0.00	0.00	0.00	
6,440.33	0.00	89.86	6,430.14	-99.59	-217.01	1.00	-1.00	0.00	180.00	
8,772.33	0.00	89.86	8,762.14	-99.59	-217.01	0.00	0.00	0.00	0.00	
9,661.78	88.95	89.86	9,335.00	-98.20	345.40	10.00	10.00	0.00	0.00	FTP - Elkhorn 702H
17,810.88	88.95	89.86	9,485.00	-78.00	8,493.10	0.00	0.00	0.00	0.00	LTP - Elkhorn 702H
17,860.89	88.95	89.86	9,485.92	-77.88	8,543.10	0.00	0.00	0.00	0.00	BHL - Elkhorn 702H

Legacy Directional

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Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Nudge Build 1.00									
3,400.00	1.00	245.35	3,399.99	-0.36	-0.79	-0.79	1.00	1.00	0.00
3,456.02	1.56	245.35	3,456.00	-0.89	-1.93	-1.93	1.00	1.00	0.00
Delaware/Lamar									
3,500.00	2.00	245.35	3,499.96	-1.46	-3.17	-3.18	1.00	1.00	0.00
3,522.06	2.22	245.35	3,522.00	-1.79	-3.91	-3.91	1.00	1.00	0.00
Bell Canyon									
3,600.00	3.00	245.35	3,599.86	-3.28	-7.14	-7.14	1.00	1.00	0.00
3,700.00	4.00	245.35	3,699.68	-5.82	-12.68	-12.70	1.00	1.00	0.00
3,800.00	5.00	245.35	3,799.37	-9.09	-19.82	-19.84	1.00	1.00	0.00
3,823.44	5.23	245.35	3,822.71	-9.97	-21.72	-21.74	1.00	1.00	0.00
5.23° at 3823.44 MD									
3,900.00	5.23	245.35	3,898.95	-12.88	-28.06	-28.10	0.00	0.00	0.00
4,000.00	5.23	245.35	3,998.54	-16.68	-36.36	-36.40	0.00	0.00	0.00
4,100.00	5.23	245.35	4,098.12	-20.49	-44.65	-44.70	0.00	0.00	0.00
4,200.00	5.23	245.35	4,197.70	-24.30	-52.94	-53.00	0.00	0.00	0.00
4,300.00	5.23	245.35	4,297.28	-28.10	-61.23	-61.30	0.00	0.00	0.00
4,347.92	5.23	245.35	4,345.00	-29.92	-65.20	-65.28	0.00	0.00	0.00
Cherry Canyon									
4,400.00	5.23	245.35	4,396.87	-31.91	-69.52	-69.60	0.00	0.00	0.00
4,500.00	5.23	245.35	4,496.45	-35.71	-77.81	-77.90	0.00	0.00	0.00
4,600.00	5.23	245.35	4,596.03	-39.52	-86.10	-86.20	0.00	0.00	0.00
4,700.00	5.23	245.35	4,695.62	-43.32	-94.40	-94.50	0.00	0.00	0.00
4,800.00	5.23	245.35	4,795.20	-47.13	-102.69	-102.80	0.00	0.00	0.00
4,900.00	5.23	245.35	4,894.78	-50.93	-110.98	-111.10	0.00	0.00	0.00
5,000.00	5.23	245.35	4,994.37	-54.74	-119.27	-119.40	0.00	0.00	0.00
5,100.00	5.23	245.35	5,093.95	-58.54	-127.56	-127.70	0.00	0.00	0.00
5,200.00	5.23	245.35	5,193.53	-62.35	-135.85	-136.01	0.00	0.00	0.00
5,300.00	5.23	245.35	5,293.11	-66.15	-144.14	-144.31	0.00	0.00	0.00
5,400.00	5.23	245.35	5,392.70	-69.96	-152.44	-152.61	0.00	0.00	0.00
5,500.00	5.23	245.35	5,492.28	-73.76	-160.73	-160.91	0.00	0.00	0.00
5,600.00	5.23	245.35	5,591.86	-77.57	-169.02	-169.21	0.00	0.00	0.00
5,659.38	5.23	245.35	5,651.00	-79.83	-173.94	-174.14	0.00	0.00	0.00
Brushy Canyon Ss.									
5,700.00	5.23	245.35	5,691.45	-81.38	-177.31	-177.51	0.00	0.00	0.00
5,800.00	5.23	245.35	5,791.03	-85.18	-185.60	-185.81	0.00	0.00	0.00
5,900.00	5.23	245.35	5,890.61	-88.99	-193.89	-194.11	0.00	0.00	0.00
5,916.89	5.23	245.35	5,907.43	-89.63	-195.29	-195.51	0.00	0.00	0.00
Start Drop -1.00									
6,000.00	4.40	245.35	5,990.25	-92.54	-201.64	-201.87	1.00	-1.00	0.00
6,100.00	3.40	245.35	6,090.01	-95.38	-207.83	-208.06	1.00	-1.00	0.00
6,200.00	2.40	245.35	6,189.88	-97.49	-212.43	-212.67	1.00	-1.00	0.00
6,300.00	1.40	245.35	6,289.83	-98.88	-215.45	-215.69	1.00	-1.00	0.00
6,400.00	0.40	245.35	6,389.81	-99.54	-216.88	-217.12	1.00	-1.00	0.00
6,440.33	0.00	89.86	6,430.14	-99.59	-217.01	-217.25	1.00	-1.00	0.00
Vertical at 6440.32 MD									
6,500.00	0.00	0.00	6,489.81	-99.59	-217.01	-217.25	0.00	0.00	0.00
6,600.00	0.00	0.00	6,589.81	-99.59	-217.01	-217.25	0.00	0.00	0.00
6,700.00	0.00	0.00	6,689.81	-99.59	-217.01	-217.25	0.00	0.00	0.00
6,800.00	0.00	0.00	6,789.81	-99.59	-217.01	-217.25	0.00	0.00	0.00

Legacy Directional

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Project:	Eddy County, NM	MD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,900.00	0.00	0.00	6,889.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,989.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,089.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,189.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,250.19	0.00	0.00	7,240.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Bone Spring Lm.										
7,300.00	0.00	0.00	7,289.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,340.19	0.00	0.00	7,330.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Avalon Ss.										
7,400.00	0.00	0.00	7,389.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,489.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,541.19	0.00	0.00	7,531.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Upper Avalon Carb.										
7,600.00	0.00	0.00	7,589.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,634.19	0.00	0.00	7,624.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Upper Avalon Sh.										
7,700.00	0.00	0.00	7,689.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,712.19	0.00	0.00	7,702.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Middle Avalon Carb.										
7,800.00	0.00	0.00	7,789.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
7,882.19	0.00	0.00	7,872.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Lower Avalon Sh.										
7,900.00	0.00	0.00	7,889.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,989.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,052.19	0.00	0.00	8,042.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
First Bone Spring Carb.										
8,100.00	0.00	0.00	8,089.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,189.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,220.19	0.00	0.00	8,210.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
First Bone Spring Ss.										
8,300.00	0.00	0.00	8,289.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,389.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,489.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,589.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,697.19	0.00	0.00	8,687.00	-99.59	-217.01	-217.25	0.00	0.00	0.00	
Second Bone Spring Carb.										
8,700.00	0.00	0.00	8,689.81	-99.59	-217.01	-217.25	0.00	0.00	0.00	
8,772.33	0.00	0.00	8,762.14	-99.59	-217.01	-217.25	0.00	0.00	0.00	
KOP Start Build 10.00										
8,800.00	2.77	89.86	8,789.80	-99.59	-216.34	-216.58	10.00	10.00	0.00	
8,900.00	12.77	89.86	8,888.76	-99.56	-202.84	-203.09	10.00	10.00	0.00	
9,000.00	22.77	89.86	8,983.87	-99.48	-172.37	-172.61	10.00	10.00	0.00	
9,039.80	26.75	89.86	9,020.00	-99.44	-155.70	-155.95	10.00	10.00	0.00	
Second Bone Spring Ss.										
9,100.00	32.77	89.86	9,072.24	-99.37	-125.84	-126.08	10.00	10.00	0.00	
9,200.00	42.77	89.86	9,151.19	-99.22	-64.67	-64.91	10.00	10.00	0.00	
9,300.00	52.77	89.86	9,218.32	-99.03	9.28	9.04	10.00	10.00	0.00	
9,335.66	56.33	89.86	9,239.00	-98.96	38.32	38.08	10.00	10.00	0.00	
Second Bone Spring A/B Carb.										
9,400.00	62.77	89.86	9,271.59	-98.82	93.76	93.52	10.00	10.00	0.00	
9,500.00	72.77	89.86	9,309.38	-98.59	186.21	185.97	10.00	10.00	0.00	

Legacy Directional

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Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,520.12	74.78	89.86	9,315.00	-98.55	205.53	205.29	10.00	10.00	0.00
Second Bone Spring B Ss.									
9,600.00	82.77	89.86	9,330.54	-98.35	283.81	283.57	10.00	10.00	0.00
9,661.78	88.95	89.86	9,335.00	-98.20	345.40	345.16	10.00	10.00	0.00
LP/FTP 88.95° at 9661.78 MD - Horizontal Landing Point - FTP - Elkhorn 702H									
9,700.00	88.95	89.86	9,335.70	-98.11	383.62	383.37	0.00	0.00	0.00
9,800.00	88.95	89.86	9,337.54	-97.86	483.60	483.36	0.00	0.00	0.00
9,900.00	88.95	89.86	9,339.39	-97.61	583.58	583.34	0.00	0.00	0.00
10,000.00	88.95	89.86	9,341.23	-97.36	683.56	683.32	0.00	0.00	0.00
10,100.00	88.95	89.86	9,343.07	-97.11	783.55	783.31	0.00	0.00	0.00
10,200.00	88.95	89.86	9,344.91	-96.87	883.53	883.29	0.00	0.00	0.00
10,300.00	88.95	89.86	9,346.75	-96.62	983.51	983.27	0.00	0.00	0.00
10,400.00	88.95	89.86	9,348.59	-96.37	1,083.49	1,083.26	0.00	0.00	0.00
10,500.00	88.95	89.86	9,350.43	-96.12	1,183.48	1,183.24	0.00	0.00	0.00
10,600.00	88.95	89.86	9,352.27	-95.87	1,283.46	1,283.22	0.00	0.00	0.00
10,700.00	88.95	89.86	9,354.11	-95.63	1,383.44	1,383.21	0.00	0.00	0.00
10,800.00	88.95	89.86	9,355.95	-95.38	1,483.43	1,483.19	0.00	0.00	0.00
10,900.00	88.95	89.86	9,357.79	-95.13	1,583.41	1,583.17	0.00	0.00	0.00
11,000.00	88.95	89.86	9,359.63	-94.88	1,683.39	1,683.15	0.00	0.00	0.00
11,100.00	88.95	89.86	9,361.47	-94.63	1,783.37	1,783.14	0.00	0.00	0.00
11,200.00	88.95	89.86	9,363.31	-94.39	1,883.36	1,883.12	0.00	0.00	0.00
11,300.00	88.95	89.86	9,365.15	-94.14	1,983.34	1,983.10	0.00	0.00	0.00
11,400.00	88.95	89.86	9,367.00	-93.89	2,083.32	2,083.09	0.00	0.00	0.00
11,500.00	88.95	89.86	9,368.84	-93.64	2,183.30	2,183.07	0.00	0.00	0.00
11,600.00	88.95	89.86	9,370.68	-93.40	2,283.29	2,283.05	0.00	0.00	0.00
11,700.00	88.95	89.86	9,372.52	-93.15	2,383.27	2,383.04	0.00	0.00	0.00
11,800.00	88.95	89.86	9,374.36	-92.90	2,483.25	2,483.02	0.00	0.00	0.00
11,900.00	88.95	89.86	9,376.20	-92.65	2,583.24	2,583.00	0.00	0.00	0.00
12,000.00	88.95	89.86	9,378.04	-92.40	2,683.22	2,682.98	0.00	0.00	0.00
12,100.00	88.95	89.86	9,379.88	-92.16	2,783.20	2,782.97	0.00	0.00	0.00
12,200.00	88.95	89.86	9,381.72	-91.91	2,883.18	2,882.95	0.00	0.00	0.00
12,300.00	88.95	89.86	9,383.56	-91.66	2,983.17	2,982.93	0.00	0.00	0.00
12,400.00	88.95	89.86	9,385.40	-91.41	3,083.15	3,082.92	0.00	0.00	0.00
12,500.00	88.95	89.86	9,387.24	-91.16	3,183.13	3,182.90	0.00	0.00	0.00
12,600.00	88.95	89.86	9,389.08	-90.92	3,283.12	3,282.88	0.00	0.00	0.00
12,700.00	88.95	89.86	9,390.92	-90.67	3,383.10	3,382.87	0.00	0.00	0.00
12,800.00	88.95	89.86	9,392.77	-90.42	3,483.08	3,482.85	0.00	0.00	0.00
12,900.00	88.95	89.86	9,394.61	-90.17	3,583.06	3,582.83	0.00	0.00	0.00
13,000.00	88.95	89.86	9,396.45	-89.93	3,683.05	3,682.82	0.00	0.00	0.00
13,100.00	88.95	89.86	9,398.29	-89.68	3,783.03	3,782.80	0.00	0.00	0.00
13,200.00	88.95	89.86	9,400.13	-89.43	3,883.01	3,882.78	0.00	0.00	0.00
13,300.00	88.95	89.86	9,401.97	-89.18	3,982.99	3,982.76	0.00	0.00	0.00
13,400.00	88.95	89.86	9,403.81	-88.93	4,082.98	4,082.75	0.00	0.00	0.00
13,500.00	88.95	89.86	9,405.65	-88.69	4,182.96	4,182.73	0.00	0.00	0.00
13,600.00	88.95	89.86	9,407.49	-88.44	4,282.94	4,282.71	0.00	0.00	0.00
13,700.00	88.95	89.86	9,409.33	-88.19	4,382.93	4,382.70	0.00	0.00	0.00
13,800.00	88.95	89.86	9,411.17	-87.94	4,482.91	4,482.68	0.00	0.00	0.00
13,900.00	88.95	89.86	9,413.01	-87.69	4,582.89	4,582.66	0.00	0.00	0.00
14,000.00	88.95	89.86	9,414.85	-87.45	4,682.87	4,682.65	0.00	0.00	0.00
14,100.00	88.95	89.86	9,416.69	-87.20	4,782.86	4,782.63	0.00	0.00	0.00
14,200.00	88.95	89.86	9,418.53	-86.95	4,882.84	4,882.61	0.00	0.00	0.00
14,300.00	88.95	89.86	9,420.38	-86.70	4,982.82	4,982.60	0.00	0.00	0.00

Legacy Directional

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 702H
Company:	XTO Energy Inc.	TVD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Project:	Eddy County, NM	MD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,400.00	88.95	89.86	9,422.22	-86.45	5,082.80	5,082.58	0.00	0.00	0.00
14,500.00	88.95	89.86	9,424.06	-86.21	5,182.79	5,182.56	0.00	0.00	0.00
14,600.00	88.95	89.86	9,425.90	-85.96	5,282.77	5,282.54	0.00	0.00	0.00
14,700.00	88.95	89.86	9,427.74	-85.71	5,382.75	5,382.53	0.00	0.00	0.00
14,800.00	88.95	89.86	9,429.58	-85.46	5,482.74	5,482.51	0.00	0.00	0.00
14,900.00	88.95	89.86	9,431.42	-85.22	5,582.72	5,582.49	0.00	0.00	0.00
15,000.00	88.95	89.86	9,433.26	-84.97	5,682.70	5,682.48	0.00	0.00	0.00
15,100.00	88.95	89.86	9,435.10	-84.72	5,782.68	5,782.46	0.00	0.00	0.00
15,200.00	88.95	89.86	9,436.94	-84.47	5,882.67	5,882.44	0.00	0.00	0.00
15,300.00	88.95	89.86	9,438.78	-84.22	5,982.65	5,982.43	0.00	0.00	0.00
15,400.00	88.95	89.86	9,440.62	-83.98	6,082.63	6,082.41	0.00	0.00	0.00
15,500.00	88.95	89.86	9,442.46	-83.73	6,182.62	6,182.39	0.00	0.00	0.00
15,600.00	88.95	89.86	9,444.30	-83.48	6,282.60	6,282.38	0.00	0.00	0.00
15,637.79	88.95	89.86	9,445.00	-83.39	6,320.38	6,320.16	0.00	0.00	0.00
Third Bone Spring Carb.									
15,700.00	88.95	89.86	9,446.15	-83.23	6,382.58	6,382.36	0.00	0.00	0.00
15,800.00	88.95	89.86	9,447.99	-82.98	6,482.56	6,482.34	0.00	0.00	0.00
15,900.00	88.95	89.86	9,449.83	-82.74	6,582.55	6,582.32	0.00	0.00	0.00
16,000.00	88.95	89.86	9,451.67	-82.49	6,682.53	6,682.31	0.00	0.00	0.00
16,100.00	88.95	89.86	9,453.51	-82.24	6,782.51	6,782.29	0.00	0.00	0.00
16,200.00	88.95	89.86	9,455.35	-81.99	6,882.49	6,882.27	0.00	0.00	0.00
16,300.00	88.95	89.86	9,457.19	-81.75	6,982.48	6,982.26	0.00	0.00	0.00
16,400.00	88.95	89.86	9,459.03	-81.50	7,082.46	7,082.24	0.00	0.00	0.00
16,500.00	88.95	89.86	9,460.87	-81.25	7,182.44	7,182.22	0.00	0.00	0.00
16,600.00	88.95	89.86	9,462.71	-81.00	7,282.43	7,282.21	0.00	0.00	0.00
16,700.00	88.95	89.86	9,464.55	-80.75	7,382.41	7,382.19	0.00	0.00	0.00
16,800.00	88.95	89.86	9,466.39	-80.51	7,482.39	7,482.17	0.00	0.00	0.00
16,900.00	88.95	89.86	9,468.23	-80.26	7,582.37	7,582.15	0.00	0.00	0.00
17,000.00	88.95	89.86	9,470.07	-80.01	7,682.36	7,682.14	0.00	0.00	0.00
17,100.00	88.95	89.86	9,471.92	-79.76	7,782.34	7,782.12	0.00	0.00	0.00
17,200.00	88.95	89.86	9,473.76	-79.51	7,882.32	7,882.10	0.00	0.00	0.00
17,300.00	88.95	89.86	9,475.60	-79.27	7,982.30	7,982.09	0.00	0.00	0.00
17,400.00	88.95	89.86	9,477.44	-79.02	8,082.29	8,082.07	0.00	0.00	0.00
17,500.00	88.95	89.86	9,479.28	-78.77	8,182.27	8,182.05	0.00	0.00	0.00
17,600.00	88.95	89.86	9,481.12	-78.52	8,282.25	8,282.04	0.00	0.00	0.00
17,700.00	88.95	89.86	9,482.96	-78.27	8,382.24	8,382.02	0.00	0.00	0.00
17,800.00	88.95	89.86	9,484.80	-78.03	8,482.22	8,482.00	0.00	0.00	0.00
17,810.88	88.95	89.86	9,485.00	-78.00	8,493.10	8,492.88	0.00	0.00	0.00
LTP at 17810.88 MD - Horizontal TD - LTP - Elkhorn 702H									
17,860.89	88.95	89.86	9,485.92	-77.88	8,543.10	8,542.88	0.00	0.00	0.00
TD at 17860.89 - BHL - Elkhorn 702H									

Legacy Directional

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 702H
Company:	XTO Energy Inc.	TVD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Project:	Eddy County, NM	MD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Elkhorn 702H - plan hits target center - Point	0.00	0.00	9,335.00	-98.20	345.40	520,177.50	638,007.60	32.429287	-103.886046
LTP - Elkhorn 702H - plan hits target center - Point	0.00	0.00	9,485.00	-78.00	8,493.10	520,197.70	646,155.30	32.429246	-103.859639
BHL - Elkhorn 702H - plan misses target center by 0.08usft at 17860.89usft MD (9485.92 TVD, -77.88 N, 8543.10 E) - Rectangle (sides W100.00 H8,200.00 D40.00)	1.05	89.86	9,485.92	-77.80	8,543.10	520,197.90	646,205.30	32.429246	-103.859477

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
69.00	69.00	Rustler				
335.00	335.00	Salado (Top of Salt)				
2,092.00	2,092.00	Castile Anhydrite 1 Top				
2,498.00	2,498.00	Castile Anhydrite 1 Base				
2,738.00	2,738.00	Castile Anhydrite 2 Top				
2,871.00	2,871.00	Castile Anhydrite 2 Base				
3,179.00	3,179.00	Base of Salt				
3,456.02	3,456.00	Delaware/Lamar				
3,522.06	3,522.00	Bell Canyon				
4,347.92	4,345.00	Cherry Canyon				
5,659.38	5,651.00	Brushy Canyon Ss.				
7,250.19	7,240.00	Bone Spring Lm.				
7,340.19	7,330.00	Avalon Ss.				
7,541.19	7,531.00	Upper Avalon Carb.				
7,634.19	7,624.00	Upper Avalon Sh.				
7,712.19	7,702.00	Middle Avalon Carb.				
7,882.19	7,872.00	Lower Avalon Sh.				
8,052.19	8,042.00	First Bone Spring Carb.				
8,220.19	8,210.00	First Bone Spring Ss.				
8,697.19	8,687.00	Second Bone Spring Carb.				
9,039.80	9,020.00	Second Bone Spring Ss.				
9,335.66	9,239.00	Second Bone Spring A/B Carb.				
9,520.12	9,315.00	Second Bone Spring B Ss.				
9,661.78	9,335.00	Horizontal Landing Point				
15,637.79	9,445.00	Third Bone Spring Carb.				
17,810.88	9,485.00	Horizontal TD				

Legacy Directional

Planning Report

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Company:	XTO Energy Inc.	TVD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Project:	Eddy County, NM	MD Reference:	GL 3144 + 31' KB @ 3175.00usft (Nabors F23)
Site:	JRU D1 12 Elkhorn	North Reference:	Grid
Well:	702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,300.00	3,300.00	0.00	0.00	Start Nudge Build 1.00
3,823.44	3,822.71	-9.97	-21.72	5.23° at 3823.44 MD
5,916.89	5,907.43	-89.63	-195.29	Start Drop -1.00
6,440.33	6,430.14	-99.59	-217.01	Vertical at 6440.32 MD
8,772.33	8,762.14	-99.59	-217.01	KOP Start Build 10.00
9,661.78	9,335.00	-98.20	345.40	LP/FTP 88.95° at 9661.78 MD
17,810.88	9,485.00	-78.00	8,493.10	LTP at 17810.88 MD
17,860.89	9,485.92	-77.88	8,543.10	TD at 17860.89