

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

Carlsbad Field Office
OCD ArtesiaSerial No.
100607

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
ROSS DRAW 25 2H

2. Name of Operator

XTO ENERGY INCORPORATED

Contact: STEPHANIE RABADUE

E-Mail: stephanie_rabadue@xtoenergy.com

9. API Well No.
30-015-43472-00-X1

3a. Address

500 W ILLINOIS STREET SUITE 100
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432-620-6714

10. Field and Pool, or Exploratory
WOLFCAMP

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

Sec 25 T26S R29E NWNW 170FNL 380FWL

11. County or Parish, and State

EDDY COUNTY, NM

12. CHECK 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	☐ Fracture Treat	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 Energy, Inc respectfully requests to increase the lateral length of the original submitted APD. An updated plat, directional drilling plan and drilling plan are updated and attached.

- All previous COAs will apply. Additional COA is not required

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 03 2016

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 03

RECEIVED

RECEIVED

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

Electronic Submission #348579 verified by the BLM Well Information System

For XTO ENERGY INCORPORATED, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 08/31/2016 (16DLM0809SE)

Name (Printed/Typed) STEPHANIE RABADUE

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/22/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title PETROLEUM ENGINEER

Date 09/28/2016

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.

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

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) 748-1287 Fax (575) 748-9726

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, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

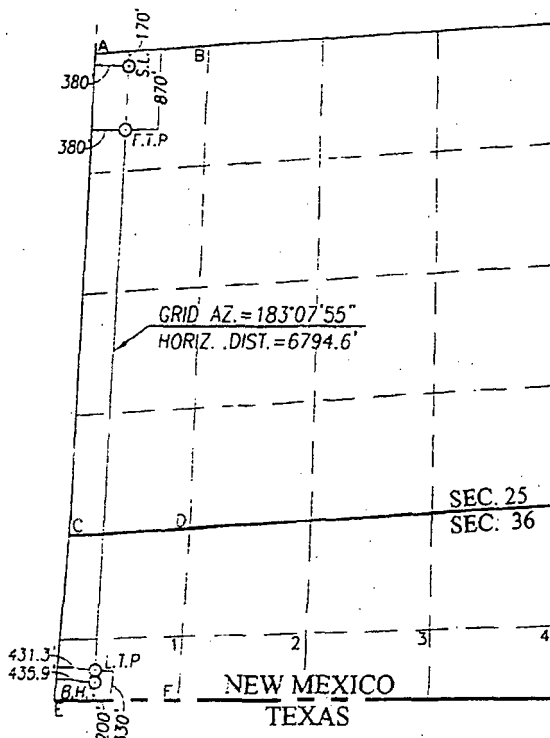
API Number 30-015-43472	Pool Code 98106	Pool Name WC-015 6-07 5262950; upper wolfcamp
Property Code 315688	Property Name ROSS DRAW 25	
OGRID No. 005380	Operator Name XTO ENERGY	Well Number 2H
		Elevation 2927'

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	26-S	29-E		170	NORTH	380	WEST	EDDY

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
1	36	26-S	29-E		200	SOUTH	435.9	WEST	EDDY
Dedicated Acres 223.97	Joint or Infill	Consolidation Code	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

SCALE: 1"=2000'



GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y=370919.9 N
X=620674.7 E
LAT.=32.019175° N
LONG.=103.943973° W

FIRST TAKE POINT
Y=370216.3 N
X=620636.2 E
LAT.=32.017241° N
LONG.=103.944106° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y=370977.3 N
X=661860.7 E
LAT.=32.019300° N
LONG.=103.944454° W

FIRST TAKE POINT
Y=370273.7 N
X=661822.2 E
LAT.=32.017367° N
LONG.=103.944586° W

CORNER COORDINATES TABLE

NAD 27 NME
A - Y=371066.8 N, X=620302.2 E
B - Y=371147.1 N, X=621575.8 E
C - Y=365747.2 N, X=620011.1 E
D - Y=365830.5 N, X=621363.3 E
E - Y=363935.3 N, X=619847.7 E
F - Y=363940.8 N, X=621243.2 E

CORNER COORDINATES TABLE

NAD 83 NME
A - Y=371124.2 N, X=661488.2 E
B - Y=371204.5 N, X=662761.8 E
C - Y=365804.5 N, X=661197.2 E
D - Y=365887.8 N, X=662549.4 E
E - Y=363992.5 N, X=661033.8 E
F - Y=363998.0 N, X=662429.4 E

GEODETIC COORDINATES
NAD 27 NME
LAST TAKE POINT
Y=364267.0 N
X=620310.5 E
LAT.=32.000890° N
LONG.=103.945226° W

BOTTOM HOLE LOCATION
Y=364137.0 N
X=620303.4 E
LAT.=32.000533° N
LONG.=103.945250° W

GEODETIC COORDINATES
NAD 83 NME
LAST TAKE POINT
Y=364324.3 N
X=661496.7 E
LAT.=32.001015° N
LONG.=103.945705° W

BOTTOM HOLE LOCATION
Y=364194.3 N
X=661489.6 E
LAT.=32.000658° N
LONG.=103.945730° W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Nathaniel Rabodue 6/25/16
Signature Date

Nathaniel Rabodue
Printed Name

Nathaniel-Rabodue@xtoenergy.com
E-mail Address

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.

MAY 6, 2014

Date of Survey
Signature & Seal of Professional Surveyor.

Ronald J. Eidson 6/21/2016
Certificate Number
Gary G. Eidson 12641
Ronald J. Eidson 3239

ACK REL WO 14110439 JWSC WO 16150401

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

XTO Energy Inc.

Ross Draw 25 2H

Projected TD: 16938' MD / 10374' TVD

SHL: 170' FNL & 380' FWL, SECTION 25, T26S, R29E

1st Take Point: 870' FNL & 380' FWL, SECTION 25, T26S, R29E

2nd Take Point: 330' FSL & 431' FWL, SECTION 36, T26S, R29E

BHL: 200' FSL & 435' FWL, SECTION 36, T26S, R29E

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	196'	Water
Top of Salt	779'	
Base of Salt	3050'	
Delaware	3100'	Water
Cherry Canyon	3970'	Water
Brushy Canyon	5635'	Water/Oil/Gas
Bone Spring	6820'	Water/Oil/Gas
1 st Bone Spring	7760'	Water/Oil/Gas
2 nd Bone Spring	8586'	Water/Oil/Gas
3 rd Bone Spring	9670'	Water/Oil/Gas
Wolfcamp	10010'	Water/Oil/Gas
Target/Land Curve	10393'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 100' (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 13-3/8" casing @ 350' above the salt and circulating cement back to surface. The salt will be isolated by setting 9-5/8" casing at 3100' and circulating cement to surface. An 8-3/4" vertical and curve hole be drilled and 7" casing run and cemented 500' into the 9-5/8" casing. A 6-1/8" curve and lateral hole will be drilled to MD/TD and a 4-1/2" liner with sliding frac sleeves will be set at TD and cemented back 250' into the 7" casing shoe.

3. CASING PROGRAM:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 350'	13-3/8"	48#	STC	H-40	New	6.92	4.62	19.17
12-1/4"	0' – 3100'	9-5/8"	36#	LTC	J-55	New	2.61	1.23	4.06
8-3/4"	0' – 10050'	7"	29#	LTC	P-110	New	2.88	1.72	2.73
6-1/8"	9800' – 16938'	4-1/2"	13.5#	BTC	P-110	New	1.31	1.46	5.86

WELLHEAD:

- A. Starting Head: 13-3/8" SOW bottom x 13-5/8" 3,000 psi top flange
- B. 'B' Section/ Drilling Spool: 13-5/8" 3,000 psi bottom flange x 11" 5,000 psi top flange
- C. Tubing Head: 11" 5,000 psi bottom flange x 7-1/16" 10,000 psi top flange

4. CEMENT PROGRAM:

- A. **Surface Casing:** 13-3/8", 48#, NEW H-40, STC casing to be set at $\pm 350'$.

20bbls FW, then 390 sx HalCem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sk, 6.39 gal/sx wtr)

***All volumes 100% excess in open hole. Cement to surface.

- B. **Intermediate Casing:** 9-5/8", 36#, NEW J-55, LTC casing to be set at $\pm 3100'$.

Lead: 20 bbls FW, then 620 sx EconoCem-HLC + 3 lbm/sk Kol-Seal + 0.25 lbm D-air 5000 (mixed at 11.9 ppg, 2.49 ft³/sk, 14.18 gal/sx wtr)

Tail: 250 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft³/sk, 6.34 gal/sx wtr)

***All volumes 100% excess in open hole. Cement to surface.

- C. **Production Casing:** 7", 29#, NEW P-110, LTC casing to be set at $\pm 10050'$.

Lead: 20 bbls FW, then 595 sx Tuned Light + 2 lbm/sk Kol-Seal + 0.3 lbm/sk CFR-3 (mixed at 10.5 ppg, 2.99 ft³/sk, 14.5 gal/sx wtr)

Tail: 380 sx VersaCem - H + 3 lbm/sk Kol-Seal + 0.4% Halad 344 + 0.3% CFR-3 + 0.3% Super CBL + 0.25 lbm/sk D-air 5000 (mixed at 14.5 ppg, 1.22 ft³/sk, 5.33 gal/sx wtr)

***All volumes 100% excess in open hole. Planned top of cement 500' into intermediate casing shoe

- D. **Production Liner:** 4-1/2", 13.5#, NEW P-110, BTC casing to be set at $\pm 16938'$. Liner top will be at $\pm 9800'$. Casing will be cemented and will include sliding sleeves for the completion.

Tail: 550 sx VersaCem PBHS2 + 0.25 lbm/sk D-air 5000 + 0.5% Halad 344 + 0.3% CFR-3
(mixed at 13.2 ppg, 1.59 ft³/sk, 8.31 gal/sx wtr)

***All volumes 30% excess in open hole. Planned top of cement at liner top

5. PRESSURE CONTROL EQUIPMENT:

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. Max bottom hole pressure should not exceed 6750 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 3000psi. When nipping up on the 9-5/8" and 7", the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

6. PROPOSED MUD CIRCULATION SYSTEM:

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 350'	17-1/2"	FW/Native	8.4 - 8.8	35 - 40	NC
350' to 3100'	12-1/4"	Brine/Gel Sweeps	9.8 - 10.2	30 - 32	NC
3100' to 10050'	8-3/4"	FW / Cut Brine	8.6 - 9.5	29 - 32	NC - 20
10050' to 16938'	6-1/8"	OBM	9.5 - 13.5	32 - 50	8 - 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 13-3/8" surface casing with brine solution. A 9.8ppg - 10.2ppg brine mud will be used while drilling through the salt formation. Cut brine will be used to drill the 8-3/4" section. An oil-based mud will be used to drill the 6-1/8" section. 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. Solids control equipment will be used 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) on @ 3100'.

Catch 20' samples from 3100' to TD

Send 1 set of dry samples to Midland Sample Library.

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

9. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS:

None anticipated. BHT of 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

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.



XTO ENERGY, INC.

**Eddy County, NM
Sec. 25, T26S, R29E
Ross Draw 25 #2H**

Wellbore #1

Plan: Design #1

QES Well Planning Report

28 June, 2016





Well Planning Report



Database: EDM5002
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 25, T26S, R29E
Well: Ross Draw 25 #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 25 #2H
TVD Reference: well @ 2952.0usft (Noram #25)
MD Reference: well @ 2952.0usft (Noram #25)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Site: Sec. 25, T26S, R29E
Site Position: Northing: 370,919.90 usft Latitude: 32° 1' 9.031 N
From: Map Easting: 620,674.70 usft Longitude: 103° 56' 38.305 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.21 °

Well: Ross Draw 25 #2H
Well Position: +N/-S 0.0 usft Northing: 370,919.90 usft Latitude: 32° 1' 9.031 N
+E/-W 0.0 usft Easting: 620,674.70 usft Longitude: 103° 56' 38.305 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 2,927.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/28/2016	7.21	59.82	47,879

Design: Design #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	183.13

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,818.0	0.00	0.00	9,818.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,720.5	90.25	183.13	10,391.0	-574.6	-31.5	10.00	10.00	-19.60	183.13	
16,938.2	90.25	183.13	10,364.0	-6,782.9	-371.3	0.00	0.00	0.00	0.00	PBHL - Ross Draw 25



Well Planning Report



Database: EDM5002
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 25, T26S, R29E
Well: Ross Draw 25 #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Ross Draw 25 #2H
well @ 2952.0usft (Noram #25)
well @ 2952.0usft (Noram #25)
Grid
Minimum Curvature

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
198.0	0.00	0.00	198.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado/Top Salt									
781.0	0.00	0.00	781.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Castile									
1,334.0	0.00	0.00	1,334.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Lamar/Base Salt									
3,052.0	0.00	0.00	3,052.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Bell Canyon									
3,102.0	0.00	0.00	3,102.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
Cherry Canyon									
3,972.0	0.00	0.00	3,972.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00



Well Planning Report



Database: EDM5002
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec. 25, T26S, R29E
Well: Ross Draw 25 #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey/Calculation Method:
Well Ross Draw 25 #2H
well @ 2952.0usft (Noram #25)
well @ 2952.0usft (Noram #25)
Grid
Minimum Curvature

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)	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
Brushy Canyon										
5,637.0	0.00	0.00	5,637.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
Bone Spring										
6,822.0	0.00	0.00	6,822.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
First Bone Spring										
7,762.0	0.00	0.00	7,762.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
Second Bone Spring										
8,588.0	0.00	0.00	8,588.0	0.0	0.0	0.0	0.00	0.00	0.00	



Well Planning Report



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Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well Ross Draw 25 #2H
well @ 2952.0usft (Noram #25)
well @ 2952.0usft (Noram #25)
Grid
Minimum Curvature

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)
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
Third Bone Spring									
9,672.0	0.00	0.00	9,672.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 10° / 100'									
9,818.0	0.00	0.00	9,818.0	0.0	0.0	0.0	0.00	0.00	0.00
TBSG_WW									
9,870.1	5.21	183.13	9,870.0	-2.4	-0.1	2.4	10.00	10.00	0.00
9,900.0	8.20	183.13	9,899.7	-5.8	-0.3	5.9	10.00	10.00	0.00
TBSG_RH									
9,942.9	12.49	183.13	9,941.9	-13.5	-0.7	13.6	10.00	10.00	0.00
10,000.0	18.20	183.13	9,997.0	-28.6	-1.6	28.7	10.00	10.00	0.00
Wolfcamp									
10,015.8	19.78	183.13	10,011.9	-33.7	-1.8	33.8	10.00	10.00	0.00
WFMP_LOCH									
10,042.5	22.45	183.13	10,036.8	-43.4	-2.4	43.4	10.00	10.00	0.00
10,100.0	28.20	183.13	10,088.8	-67.9	-3.7	68.0	10.00	10.00	0.00
WFMP_BOWDLE									
10,132.1	31.41	183.13	10,116.6	-83.9	-4.6	84.0	10.00	10.00	0.00
10,200.0	38.20	183.13	10,172.3	-122.5	-6.7	122.7	10.00	10.00	0.00
10,300.0	48.20	183.13	10,245.1	-190.8	-10.4	191.1	10.00	10.00	0.00
10,400.0	58.20	183.13	10,305.0	-270.6	-14.8	271.0	10.00	10.00	0.00
10,500.0	68.20	183.13	10,350.0	-359.6	-19.7	360.2	10.00	10.00	0.00
Target Top									
10,559.5	74.15	183.13	10,369.2	-415.9	-22.8	416.5	10.00	10.00	0.00
10,600.0	78.20	183.13	10,378.8	-455.1	-24.9	455.8	10.00	10.00	0.00
10,700.0	88.20	183.13	10,390.7	-554.1	-30.3	555.0	10.00	10.00	0.00
EOB @ 90.25° Inc. / 183.13° Azm									
10,720.5	90.25	183.13	10,391.0	-574.6	-31.5	575.4	10.00	10.00	0.00
10,800.0	90.25	183.13	10,390.6	-654.0	-35.8	655.0	0.00	0.00	0.00
10,900.0	90.25	183.13	10,390.2	-753.8	-41.3	755.0	0.00	0.00	0.00
11,000.0	90.25	183.13	10,389.7	-853.7	-46.7	855.0	0.00	0.00	0.00
11,100.0	90.25	183.13	10,389.3	-953.5	-52.2	955.0	0.00	0.00	0.00
11,200.0	90.25	183.13	10,388.9	-1,053.4	-57.7	1,055.0	0.00	0.00	0.00
11,300.0	90.25	183.13	10,388.4	-1,153.2	-63.1	1,155.0	0.00	0.00	0.00
11,400.0	90.25	183.13	10,388.0	-1,253.1	-68.6	1,255.0	0.00	0.00	0.00
11,500.0	90.25	183.13	10,387.6	-1,352.9	-74.1	1,355.0	0.00	0.00	0.00
11,600.0	90.25	183.13	10,387.1	-1,452.8	-79.5	1,454.9	0.00	0.00	0.00
11,700.0	90.25	183.13	10,386.7	-1,552.6	-85.0	1,554.9	0.00	0.00	0.00
11,800.0	90.25	183.13	10,386.3	-1,652.5	-90.5	1,654.9	0.00	0.00	0.00
11,900.0	90.25	183.13	10,385.8	-1,752.3	-95.9	1,754.9	0.00	0.00	0.00
12,000.0	90.25	183.13	10,385.4	-1,852.2	-101.4	1,854.9	0.00	0.00	0.00



Well Planning Report



Database: EDM5002
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Project: Eddy County, NM
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Well: Ross Draw 25 #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 25 #2H
TVD Reference: well @ 2952.0usft (Noram #25)
MD Reference: well @ 2952.0usft (Noram #25)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
12,100.0	90.25	183.13	10,385.0	-1,952.0	-106.9	1,954.9	0.00	0.00	0.00
12,200.0	90.25	183.13	10,384.5	-2,051.9	-112.3	2,054.9	0.00	0.00	0.00
12,300.0	90.25	183.13	10,384.1	-2,151.7	-117.8	2,154.9	0.00	0.00	0.00
12,400.0	90.25	183.13	10,383.7	-2,251.6	-123.3	2,254.9	0.00	0.00	0.00
12,500.0	90.25	183.13	10,383.2	-2,351.4	-128.7	2,354.9	0.00	0.00	0.00
12,600.0	90.25	183.13	10,382.8	-2,451.3	-134.2	2,454.9	0.00	0.00	0.00
12,700.0	90.25	183.13	10,382.4	-2,551.1	-139.6	2,554.9	0.00	0.00	0.00
12,800.0	90.25	183.13	10,381.9	-2,651.0	-145.1	2,654.9	0.00	0.00	0.00
12,900.0	90.25	183.13	10,381.5	-2,750.8	-150.6	2,754.9	0.00	0.00	0.00
13,000.0	90.25	183.13	10,381.1	-2,850.7	-156.0	2,854.9	0.00	0.00	0.00
13,100.0	90.25	183.13	10,380.6	-2,950.5	-161.5	2,954.9	0.00	0.00	0.00
13,200.0	90.25	183.13	10,380.2	-3,050.4	-167.0	3,054.9	0.00	0.00	0.00
13,300.0	90.25	183.13	10,379.8	-3,150.2	-172.4	3,154.9	0.00	0.00	0.00
13,400.0	90.25	183.13	10,379.3	-3,250.1	-177.9	3,254.9	0.00	0.00	0.00
13,500.0	90.25	183.13	10,378.9	-3,349.9	-183.4	3,354.9	0.00	0.00	0.00
13,600.0	90.25	183.13	10,378.5	-3,449.8	-188.8	3,454.9	0.00	0.00	0.00
13,700.0	90.25	183.13	10,378.0	-3,549.6	-194.3	3,554.9	0.00	0.00	0.00
13,800.0	90.25	183.13	10,377.6	-3,649.5	-199.8	3,654.9	0.00	0.00	0.00
13,900.0	90.25	183.13	10,377.2	-3,749.3	-205.2	3,754.9	0.00	0.00	0.00
14,000.0	90.25	183.13	10,376.7	-3,849.2	-210.7	3,854.9	0.00	0.00	0.00
14,100.0	90.25	183.13	10,376.3	-3,949.0	-216.2	3,954.9	0.00	0.00	0.00
14,200.0	90.25	183.13	10,375.9	-4,048.9	-221.6	4,054.9	0.00	0.00	0.00
14,300.0	90.25	183.13	10,375.4	-4,148.7	-227.1	4,154.9	0.00	0.00	0.00
14,400.0	90.25	183.13	10,375.0	-4,248.6	-232.6	4,254.9	0.00	0.00	0.00
14,500.0	90.25	183.13	10,374.6	-4,348.4	-238.0	4,354.9	0.00	0.00	0.00
14,600.0	90.25	183.13	10,374.1	-4,448.3	-243.5	4,454.9	0.00	0.00	0.00
14,700.0	90.25	183.13	10,373.7	-4,548.1	-249.0	4,554.9	0.00	0.00	0.00
14,800.0	90.25	183.13	10,373.3	-4,648.0	-254.4	4,654.9	0.00	0.00	0.00
14,900.0	90.25	183.13	10,372.8	-4,747.8	-259.9	4,754.9	0.00	0.00	0.00
15,000.0	90.25	183.13	10,372.4	-4,847.7	-265.4	4,854.9	0.00	0.00	0.00
15,100.0	90.25	183.13	10,372.0	-4,947.5	-270.8	4,954.9	0.00	0.00	0.00
15,200.0	90.25	183.13	10,371.5	-5,047.4	-276.3	5,054.9	0.00	0.00	0.00
15,300.0	90.25	183.13	10,371.1	-5,147.2	-281.8	5,154.9	0.00	0.00	0.00
15,400.0	90.25	183.13	10,370.7	-5,247.1	-287.2	5,254.9	0.00	0.00	0.00
15,500.0	90.25	183.13	10,370.2	-5,346.9	-292.7	5,354.9	0.00	0.00	0.00
15,600.0	90.25	183.13	10,369.8	-5,446.8	-298.2	5,454.9	0.00	0.00	0.00
15,700.0	90.25	183.13	10,369.4	-5,546.6	-303.6	5,554.9	0.00	0.00	0.00
15,800.0	90.25	183.13	10,368.9	-5,646.5	-309.1	5,654.9	0.00	0.00	0.00
15,900.0	90.25	183.13	10,368.5	-5,746.3	-314.6	5,754.9	0.00	0.00	0.00
16,000.0	90.25	183.13	10,368.1	-5,846.2	-320.0	5,854.9	0.00	0.00	0.00
16,100.0	90.25	183.13	10,367.6	-5,946.0	-325.5	5,954.9	0.00	0.00	0.00
16,200.0	90.25	183.13	10,367.2	-6,045.9	-331.0	6,054.9	0.00	0.00	0.00
16,300.0	90.25	183.13	10,366.8	-6,145.7	-336.4	6,154.9	0.00	0.00	0.00
16,400.0	90.25	183.13	10,366.3	-6,245.6	-341.9	6,254.9	0.00	0.00	0.00
16,500.0	90.25	183.13	10,365.9	-6,345.4	-347.4	6,354.9	0.00	0.00	0.00
16,600.0	90.25	183.13	10,365.5	-6,445.3	-352.8	6,454.9	0.00	0.00	0.00
16,700.0	90.25	183.13	10,365.0	-6,545.1	-358.3	6,554.9	0.00	0.00	0.00
16,800.0	90.25	183.13	10,364.6	-6,645.0	-363.7	6,654.9	0.00	0.00	0.00
16,900.0	90.25	183.13	10,364.2	-6,744.8	-369.2	6,754.9	0.00	0.00	0.00
TD @ 16938' MD / 10364' TVD									
16,938.2	90.25	183.13	10,364.0	-6,782.9	-371.3	6,793.1	0.00	0.00	0.00

Database: EDM5002
 Company: XTO ENERGY, INC.
 Project: Eddy County, NM
 Site: Sec. 25, T26S, R29E
 Well: Ross Draw 25 #2H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 25 #2H
 TVD Reference: well @ 2952.0usft (Noram #25)
 MD Reference: well @ 2952.0usft (Noram #25)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
LTP - Ross Draw 25 #2H		0.00	0.00	0.0	-6,652.9	-364.2	364,267.00	620,310.50	32° 0' 3.203 N
- plan misses target center by 6662.9usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									
FTP - Ross Draw 25 #2H		0.00	0.00	0.0	-703.6	-38.5	370,216.30	620,636.20	32° 1' 2.069 N
- plan misses target center by 704.7usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									
PBHL - Ross Draw 25 #H		0.00	0.00	10,364.0	-6,782.9	-371.3	364,137.00	620,303.40	32° 0' 1.917 N
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
198.0	198.0	Rustler		-0.25	183.13	
781.0	781.0	Salado/Top Salt		-0.25	183.13	
1,334.0	1,334.0	Castile		-0.25	183.13	
3,052.0	3,052.0	Lamar/Base Salt		-0.25	183.13	
3,102.0	3,102.0	Bell Canyon		-0.25	183.13	
3,972.0	3,972.0	Cherry Canyon		-0.25	183.13	
5,637.0	5,637.0	Brushy Canyon		-0.25	183.13	
6,822.0	6,822.0	Bone Spring		-0.25	183.13	
7,762.0	7,762.0	First Bone Spring		-0.25	183.13	
8,588.0	8,588.0	Second Bone Spring		-0.25	183.13	
9,672.0	9,672.0	Third Bone Spring		-0.25	183.13	
9,870.1	9,870.0	TBSG_WW		-0.25	183.13	
9,942.9	9,941.9	TBSG_RH		-0.25	183.13	
10,015.8	10,011.9	Wolfcamp		-0.25	183.13	
10,042.5	10,036.8	WFMP_LOCH		-0.25	183.13	
10,132.1	10,116.6	WFMP_BOWDLE		-0.25	183.13	
10,559.5	10,369.2	Target Top		-0.25	183.13	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
9,818.0	9,818.0	0.0	0.0	Build 10° / 100'
10,720.5	10,391.0	-574.6	-31.5	EOB @ 90.25° Inc. / 183.13° Azm
16,938.2	10,364.0	-6,782.9	-371.3	TD @ 16938' MD / 10364' TVD

Ross Draw 25 #2H
Eddy County, NM
Q160*** & WT-160***
Design #1

PROJECT DETAILS: Eddy County, NM

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Company Name: XTO ENERGY, INC.
Ross Draw 25 #2H
Eddy County, NM
Rig: Noram #25
Created By: Will Jirok
Date: 6/28/2016

WELL DETAILS: Ross Draw 25 #2H

Gross Level: 2827.0
+N-S +E-W Northing Easting Latitude Longitude
0.0 0.0 370919.00 620674.75 32° 1' 5.031" N 103° 56' 18.365" W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	V-Sect	Departure	Annotation
9818.9	0.00	0.00	8818.0	0.0	0.0	0.0	0.0	Build 10° / 100'
10720.5	90.25	183.13	10391.0	-574.8	-31.5	575.4	575.4	EOB @ 90.25° Inc. / 183.13° Azm
16938.2	90.25	183.13	10364.0	-6782.9	-371.3	6793.1	6793.1	TD @ 16938' MD / 10364' TVD

Section Distances

Section 25, T26S, R29E
LP

736.1 FNL, 379.9 FWL

Section 36, T26S, R29E

PBHL

200' FSL, 435.9' FWL

XTO
ENERGY

QES
DIRECTIONAL DRILLING



Azimuths to Grid North
True North: -0.21°
Magnetic North: 7.01°
Magnetic Field
Strength: 47879.1snT
Dip Angle: 59.82°
Date: 6/28/2016
Model: IGRF2015

Build 10° / 100'

EOB @ 90.25° Inc. / 183.13° Azm

Vertical Section at 183.13° (200 usf/in)

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
FTP - Ross Draw 25 #2H	0.0	-703.6	-38.5	370216.30	620636.20	32° 1' 2.059" N 103° 56' 38.782" W	
LTP - Ross Draw 25 #2H	0.0	-6652.9	-364.2	364267.00	620316.50	32° 0' 3.203" N 103° 56' 42.813" W	
PBHL - Ross Draw 25 #2H	10364.0	-6782.9	-371.3	364137.00	620353.40	32° 0' 1.917" N 103° 56' 42.901" W	

Lease Line

Build 10° / 100'

EOB @ 90.25° Inc. / 183.13° Azm

FTP - Ross Draw 25 #2H

50' Left/Right Drilling Window

Sec. 25

Section Line

Sec. 36

LTP - Ross Draw 25 #2H

330' Hard Line

Lease Line

TD @ 16938' MD / 10364' TVD

TD @ 16938' MD / 10364' TVD

Vertical Section at 183.13° (200 usf/in)