

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.
NMNM17225A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
ROSS DRAW 31 FEDERAL WAL COM 00649. API Well No.
30-015-4512110. Field and Pool or Exploratory Area
PURPLE SAGE; WOLFCAMP11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
XTO ENERGY, INCContact: STEPHANIE RABADUE
E-Mail: stephanie_rabadue@xtoenergy.com3a. Address
6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 797073b. Phone No. (include area code)
Ph: 432-683-22774. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 31 T26S R30E Mer NMP 170FSL 430FEL**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

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

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 Energy, Inc. respectfully requests to change the wellbore path and directional drill survey from 430'FEL to 750'FEL. - BHL

Attachments:

1. C-102
2. C-102 Supplement
3. Directional Drill Plan

Accepted For Record
NMOCD

RECEIVED

OCT 12 2018

DISTRICT II-ARTESIA O.C.D.

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

Electronic Submission #434390 verified by the BLM Well Information System
For XTO ENERGY, INC., sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/12/2018 ()

Name (Printed/Typed) STEPHANIE RABADUE

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 09/10/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

mustafa Hage

Title

Petroleum Engineer
Carlsbad Field Office

Date 9/21/2018

Office

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.

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RW 10-17-181

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) 334-6179
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
OCT 12 2018
☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45121		² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 319620	⁵ Property Name ROSS DRAW 31 FEDERAL WAL COM		⁶ Well Number 6H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.		⁹ Elevation 3,001'

¹⁰ Surface Location

U.I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	31	26 S	30 E		170	SOUTH	430	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U.I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	26 S	30 E		200	NORTH	750	EAST	EDDY

¹² Dedicated Acres 720	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. 730-3
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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.

GRID A2 = 359°41'29" HORIZ. DIST. = 11,792.22' GRID A2 = 331°39'37" HORIZ. DIST. = 680.06'	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y = 364,148.8 X = 630,335.0 LAT. = 32.000461°N LONG. = 103.912890°W FIRST TAKE POINT NAD 27 NME Y = 364,747.2 X = 630,012.2 LAT. = 32.002110°N LONG. = 103.913924°W CORNER COORDINATES TABLE NAD 27 NME <table border="1"> <tr><td>A - Y = 363,980.6 N, X = 630,765.8 E</td></tr> <tr><td>B - Y = 363,974.6 N, X = 629,436.3 E</td></tr> <tr><td>C - Y = 366,107.3 N, X = 629,426.1 E</td></tr> <tr><td>D - Y = 366,117.5 N, X = 630,755.9 E</td></tr> <tr><td>E - Y = 368,765.3 N, X = 629,407.7 E</td></tr> <tr><td>F - Y = 368,776.7 N, X = 630,737.8 E</td></tr> <tr><td>G - Y = 371,420.9 N, X = 629,390.8 E</td></tr> <tr><td>H - Y = 371,431.9 N, X = 630,722.4 E</td></tr> <tr><td>I - Y = 374,078.7 N, X = 629,378.1 E</td></tr> <tr><td>J - Y = 374,089.7 N, X = 630,708.2 E</td></tr> <tr><td>K - Y = 376,734.2 N, X = 629,353.6 E</td></tr> <tr><td>L - Y = 376,745.1 N, X = 630,698.3 E</td></tr> </table> CORNER COORDINATES TABLE NAD 83 NME <table border="1"> <tr><td>A - Y = 364,037.9 N, X = 671,952.0 E</td></tr> <tr><td>B - Y = 364,031.9 N, X = 670,622.5 E</td></tr> <tr><td>C - Y = 368,164.6 N, X = 670,612.2 E</td></tr> <tr><td>D - Y = 366,174.8 N, X = 671,942.0 E</td></tr> <tr><td>E - Y = 368,822.7 N, X = 670,593.7 E</td></tr> <tr><td>F - Y = 368,834.1 N, X = 671,923.8 E</td></tr> <tr><td>G - Y = 371,478.3 N, X = 670,576.7 E</td></tr> <tr><td>H - Y = 371,489.3 N, X = 671,908.4 E</td></tr> <tr><td>I - Y = 374,138.2 N, X = 670,563.9 E</td></tr> <tr><td>J - Y = 374,147.2 N, X = 671,894.1 E</td></tr> <tr><td>K - Y = 376,791.7 N, X = 670,539.4 E</td></tr> <tr><td>L - Y = 376,802.6 N, X = 671,884.1 E</td></tr> </table> LAST TAKE POINT NAD 27 NME Y = 376,409.0 X = 629,949.6 LAT. = 32.034169°N LONG. = 103.913980°W BOTTOM HOLE LOCATION NAD 27 NME Y = 376,539.0 X = 629,949.1 LAT. = 32.034527°N LONG. = 103.913980°W	A - Y = 363,980.6 N, X = 630,765.8 E	B - Y = 363,974.6 N, X = 629,436.3 E	C - Y = 366,107.3 N, X = 629,426.1 E	D - Y = 366,117.5 N, X = 630,755.9 E	E - Y = 368,765.3 N, X = 629,407.7 E	F - Y = 368,776.7 N, X = 630,737.8 E	G - Y = 371,420.9 N, X = 629,390.8 E	H - Y = 371,431.9 N, X = 630,722.4 E	I - Y = 374,078.7 N, X = 629,378.1 E	J - Y = 374,089.7 N, X = 630,708.2 E	K - Y = 376,734.2 N, X = 629,353.6 E	L - Y = 376,745.1 N, X = 630,698.3 E	A - Y = 364,037.9 N, X = 671,952.0 E	B - Y = 364,031.9 N, X = 670,622.5 E	C - Y = 368,164.6 N, X = 670,612.2 E	D - Y = 366,174.8 N, X = 671,942.0 E	E - Y = 368,822.7 N, X = 670,593.7 E	F - Y = 368,834.1 N, X = 671,923.8 E	G - Y = 371,478.3 N, X = 670,576.7 E	H - Y = 371,489.3 N, X = 671,908.4 E	I - Y = 374,138.2 N, X = 670,563.9 E	J - Y = 374,147.2 N, X = 671,894.1 E	K - Y = 376,791.7 N, X = 670,539.4 E	L - Y = 376,802.6 N, X = 671,884.1 E	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y = 364,205.9 X = 671,521.2 LAT. = 32.000587°N LONG. = 103.913369°W FIRST TAKE POINT NAD 83 NME Y = 364,804.5 X = 671,198.4 LAT. = 32.002236°N LONG. = 103.914403°W	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Stephanie Rabadue 08/30/2018 Signature Date Stephanie Rabadue Printed Name stephanie_rabadue@xtoenergy.com E-mail Address
	A - Y = 363,980.6 N, X = 630,765.8 E																										
	B - Y = 363,974.6 N, X = 629,436.3 E																										
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K - Y = 376,791.7 N, X = 670,539.4 E																											
L - Y = 376,802.6 N, X = 671,884.1 E																											
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. 8-30-2018 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number																											
NEW MEXICO TEXAS																											
RWP 10-17-18																											

Intent ☒ As Drilled ☐

OCT 12 2018

API #
30-015-45121

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Operator Name: XTO Energy, Inc	Property Name: Ross Draw 31 Federal WAL Com	Well Number 006H
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Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	26S	30E	5	170	South	430	East	Eddy
Latitude 32.000587					Longitude -103.913369				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	26S	30E	5	770	South	750	East	Eddy
Latitude 32.002236					Longitude -103.914403				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	19	26S	30E	330	North	North	750	East	Eddy
Latitude 32.034295					Longitude -103.914460				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:	Property Name:	Well Number

KZ 06/29/2018



XTO ENERGY, INC.

Eddy County, NM

Sec 31, T26S, R30E (True North)

Ross Draw 3031 Fed #6H

Wellbore #1

30.015-45121

**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 12 2018

Plan: Design #1

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QES Well Planning Report

30 August, 2018





Well Planning Report



Database: EDM 5000.1 Single User Db
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 31, T26S, R30E (True North)
Well: Ross Draw 3031 Fed #6H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 3031 Fed #6H
TVD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
MD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
North Reference: True
Survey Calculation Method: Minimum Curvature

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	Sec 31, T26S, R30E (True North)			
Site Position:		Northing:	364,129.80 usft	Latitude: 32° 0' 1.646 N
From:	Map	Easting:	625,809.10 usft	Longitude: 103° 55' 38.964 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.22 °

Well	Ross Draw 3031 Fed #6H			
Well Position	+N/-S	1.9 usft	Northing:	364,148.70 usft
	+E/-W	4,525.8 usft	Easting:	630,334.90 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	Ground Level: 3,001.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/28/2018	6.97	59.79	47,649.46298458

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	359.92

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	
10.108.5	0.00	0.00	10.108.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,008.6	90.00	359.92	10.681.5	573.0	-0.8	10.00	10.00	-0.01	359.92	
22,828.8	90.00	359.92	10.681.5	12,393.2	-17.7	0.00	0.00	0.00	0.00	Ross Draw 3031 Fed



Well Planning Report



Database: EDM 5000.1 Single User Db
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 31, T26S, R30E (True North)
Well: Ross Draw 3031 Fed #6H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 3031 Fed #6H
TVD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
MD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
North Reference: True
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)
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
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
Rustler									
668.5	0.00	0.00	668.5	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
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado (Top of Salt)									
828.5	0.00	0.00	828.5	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
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
Base of Salt									
3,074.5	0.00	0.00	3,074.5	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
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
Delaware (Bell Canyon)									
3,263.5	0.00	0.00	3,263.5	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
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
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
Cherry Canyon									
4,209.5	0.00	0.00	4,209.5	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



Well Planning Report



Database: EDM 5000.1 Single User Db
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 31, T26S, R30E (True North)
Well: Ross Draw 3031 Fed #6H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 3031 Fed #6H
TVD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
MD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
North Reference: True
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)
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
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
Brushy Canyon									
5,872.5	0.00	0.00	5,872.5	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
Basal Brushy Canyon									
6,806.5	0.00	0.00	6,806.5	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
Bone Spring Lime									
7,068.5	0.00	0.00	7,068.5	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
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
1st Bone Spring Sand									
7,986.5	0.00	0.00	7,986.5	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
2nd Bone Spring Lime									
8,486.5	0.00	0.00	8,486.5	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
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00



Well Planning Report



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Site: Sec 31, T26S, R30E (True North)
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Wellbore: Wellbore #1
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North Reference: True
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)
2nd Bone Spring Sand									
8,683.5	0.00	0.00	8,683.5	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
3rd Bone Spring Lime									
9,200.5	0.00	0.00	9,200.5	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
Harkey sand									
9,440.5	0.00	0.00	9,440.5	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
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
Lower 3rd Bone Spring Lime									
9,702.5	0.00	0.00	9,702.5	0.0	0.0	0.0	0.00	0.00	0.00
Lower 3rd Bone Spring Shale									
9,743.5	0.00	0.00	9,743.5	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
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3rd Bone Spring Sand									
9,918.5	0.00	0.00	9,918.5	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 10°/100									
10,108.5	0.00	0.00	10,108.5	0.0	0.0	0.0	0.00	0.00	0.00
3rd Bone Spring Red Hills Sand									
10,189.8	8.12	359.92	10,189.5	5.7	0.0	5.7	10.00	10.00	0.00
10,200.0	9.15	359.92	10,199.6	7.3	0.0	7.3	10.00	10.00	0.00
Wolfcamp									
10,259.2	15.07	359.92	10,257.5	19.7	0.0	19.7	10.00	10.00	0.00
Wolfcamp X Sand									
10,294.8	18.62	359.92	10,291.5	30.0	0.0	30.0	10.00	10.00	0.00
10,300.0	19.15	359.92	10,296.5	31.7	0.0	31.7	10.00	10.00	0.00
Wolfcamp Y Sand									
10,391.9	28.34	359.92	10,380.5	68.7	-0.1	68.7	10.00	10.00	0.00
10,400.0	29.15	359.92	10,387.6	72.5	-0.1	72.5	10.00	10.00	0.00
Wolfcamp A Shale									
10,425.4	31.69	359.92	10,409.5	85.4	-0.1	85.4	10.00	10.00	0.00
10,500.0	39.15	359.92	10,470.2	128.6	-0.2	128.6	10.00	10.00	0.00
10,600.0	49.15	359.92	10,541.9	198.2	-0.3	198.2	10.00	10.00	0.00
10,700.0	59.15	359.92	10,600.4	279.1	-0.4	279.1	10.00	10.00	0.00
10,800.0	69.15	359.92	10,644.0	369.0	-0.5	369.0	10.00	10.00	0.00
10,900.0	79.15	359.92	10,671.3	465.1	-0.7	465.1	10.00	10.00	0.00
11,000.0	89.15	359.92	10,681.4	564.4	-0.8	564.4	10.00	10.00	0.00
EOC @ 90.00° Inc. / 359.92° AZM. 10681.5' TVD									
11,008.6	90.00	359.92	10,681.5	573.0	-0.8	573.0	10.00	10.00	0.00
11,100.0	90.00	359.92	10,681.5	664.4	-0.9	664.4	0.00	0.00	0.00
11,200.0	90.00	359.92	10,681.5	764.4	-1.1	764.4	0.00	0.00	0.00



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11,300.0	90.00	359.92	10,681.5	864.4	-1.2	864.4	0.00	0.00	0.00
11,400.0	90.00	359.92	10,681.5	964.4	-1.4	964.4	0.00	0.00	0.00
11,500.0	90.00	359.92	10,681.5	1,064.4	-1.5	1,064.4	0.00	0.00	0.00
11,600.0	90.00	359.92	10,681.5	1,164.4	-1.7	1,164.4	0.00	0.00	0.00
11,700.0	90.00	359.92	10,681.5	1,264.4	-1.8	1,264.4	0.00	0.00	0.00
11,800.0	90.00	359.92	10,681.5	1,364.4	-1.9	1,364.4	0.00	0.00	0.00
11,900.0	90.00	359.92	10,681.5	1,464.4	-2.1	1,464.4	0.00	0.00	0.00
12,000.0	90.00	359.92	10,681.5	1,564.4	-2.2	1,564.4	0.00	0.00	0.00
12,100.0	90.00	359.92	10,681.5	1,664.4	-2.4	1,664.4	0.00	0.00	0.00
12,200.0	90.00	359.92	10,681.5	1,764.4	-2.5	1,764.4	0.00	0.00	0.00
12,300.0	90.00	359.92	10,681.5	1,864.4	-2.7	1,864.4	0.00	0.00	0.00
12,400.0	90.00	359.92	10,681.5	1,964.4	-2.8	1,964.4	0.00	0.00	0.00
12,500.0	90.00	359.92	10,681.5	2,064.4	-2.9	2,064.4	0.00	0.00	0.00
12,600.0	90.00	359.92	10,681.5	2,164.4	-3.1	2,164.4	0.00	0.00	0.00
12,700.0	90.00	359.92	10,681.5	2,264.4	-3.2	2,264.4	0.00	0.00	0.00
12,800.0	90.00	359.92	10,681.5	2,364.4	-3.4	2,364.4	0.00	0.00	0.00
12,900.0	90.00	359.92	10,681.5	2,464.4	-3.5	2,464.4	0.00	0.00	0.00
13,000.0	90.00	359.92	10,681.5	2,564.4	-3.7	2,564.4	0.00	0.00	0.00
13,100.0	90.00	359.92	10,681.5	2,664.4	-3.8	2,664.4	0.00	0.00	0.00
13,200.0	90.00	359.92	10,681.5	2,764.4	-3.9	2,764.4	0.00	0.00	0.00
13,300.0	90.00	359.92	10,681.5	2,864.4	-4.1	2,864.4	0.00	0.00	0.00
13,400.0	90.00	359.92	10,681.5	2,964.4	-4.2	2,964.4	0.00	0.00	0.00
13,500.0	90.00	359.92	10,681.5	3,064.4	-4.4	3,064.4	0.00	0.00	0.00
13,600.0	90.00	359.92	10,681.5	3,164.4	-4.5	3,164.4	0.00	0.00	0.00
13,700.0	90.00	359.92	10,681.5	3,264.4	-4.7	3,264.4	0.00	0.00	0.00
13,800.0	90.00	359.92	10,681.5	3,364.4	-4.8	3,364.4	0.00	0.00	0.00
13,900.0	90.00	359.92	10,681.5	3,464.4	-4.9	3,464.4	0.00	0.00	0.00
14,000.0	90.00	359.92	10,681.5	3,564.4	-5.1	3,564.4	0.00	0.00	0.00
14,100.0	90.00	359.92	10,681.5	3,664.4	-5.2	3,664.4	0.00	0.00	0.00
14,200.0	90.00	359.92	10,681.5	3,764.4	-5.4	3,764.4	0.00	0.00	0.00
14,300.0	90.00	359.92	10,681.5	3,864.4	-5.5	3,864.4	0.00	0.00	0.00
14,400.0	90.00	359.92	10,681.5	3,964.4	-5.7	3,964.4	0.00	0.00	0.00
14,500.0	90.00	359.92	10,681.5	4,064.4	-5.8	4,064.4	0.00	0.00	0.00
14,600.0	90.00	359.92	10,681.5	4,164.4	-5.9	4,164.4	0.00	0.00	0.00
14,700.0	90.00	359.92	10,681.5	4,264.4	-6.1	4,264.4	0.00	0.00	0.00
14,800.0	90.00	359.92	10,681.5	4,364.4	-6.2	4,364.4	0.00	0.00	0.00
14,900.0	90.00	359.92	10,681.5	4,464.4	-6.4	4,464.4	0.00	0.00	0.00
15,000.0	90.00	359.92	10,681.5	4,564.4	-6.5	4,564.4	0.00	0.00	0.00
15,100.0	90.00	359.92	10,681.5	4,664.4	-6.7	4,664.4	0.00	0.00	0.00
15,200.0	90.00	359.92	10,681.5	4,764.4	-6.8	4,764.4	0.00	0.00	0.00
15,300.0	90.00	359.92	10,681.5	4,864.4	-6.9	4,864.4	0.00	0.00	0.00
15,400.0	90.00	359.92	10,681.5	4,964.4	-7.1	4,964.4	0.00	0.00	0.00
15,500.0	90.00	359.92	10,681.5	5,064.4	-7.2	5,064.4	0.00	0.00	0.00
15,600.0	90.00	359.92	10,681.5	5,164.4	-7.4	5,164.4	0.00	0.00	0.00
15,700.0	90.00	359.92	10,681.5	5,264.4	-7.5	5,264.4	0.00	0.00	0.00
15,800.0	90.00	359.92	10,681.5	5,364.4	-7.7	5,364.4	0.00	0.00	0.00
15,900.0	90.00	359.92	10,681.5	5,464.4	-7.8	5,464.4	0.00	0.00	0.00
16,000.0	90.00	359.92	10,681.5	5,564.4	-7.9	5,564.4	0.00	0.00	0.00
16,100.0	90.00	359.92	10,681.5	5,664.4	-8.1	5,664.4	0.00	0.00	0.00
16,200.0	90.00	359.92	10,681.5	5,764.4	-8.2	5,764.4	0.00	0.00	0.00
16,300.0	90.00	359.92	10,681.5	5,864.4	-8.4	5,864.4	0.00	0.00	0.00
16,400.0	90.00	359.92	10,681.5	5,964.4	-8.5	5,964.4	0.00	0.00	0.00
16,500.0	90.00	359.92	10,681.5	6,064.4	-8.7	6,064.4	0.00	0.00	0.00
16,600.0	90.00	359.92	10,681.5	6,164.4	-8.8	6,164.4	0.00	0.00	0.00



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16,700.0	90.00	359.92	10,681.5	6,264.4	-8.9	6,264.4	0.00	0.00	0.00
16,800.0	90.00	359.92	10,681.5	6,364.4	-9.1	6,364.4	0.00	0.00	0.00
16,900.0	90.00	359.92	10,681.5	6,464.4	-9.2	6,464.4	0.00	0.00	0.00
17,000.0	90.00	359.92	10,681.5	6,564.4	-9.4	6,564.4	0.00	0.00	0.00
17,100.0	90.00	359.92	10,681.5	6,664.4	-9.5	6,664.4	0.00	0.00	0.00
17,200.0	90.00	359.92	10,681.5	6,764.4	-9.7	6,764.4	0.00	0.00	0.00
17,300.0	90.00	359.92	10,681.5	6,864.4	-9.8	6,864.4	0.00	0.00	0.00
17,400.0	90.00	359.92	10,681.5	6,964.4	-9.9	6,964.4	0.00	0.00	0.00
17,500.0	90.00	359.92	10,681.5	7,064.4	-10.1	7,064.4	0.00	0.00	0.00
17,600.0	90.00	359.92	10,681.5	7,164.4	-10.2	7,164.4	0.00	0.00	0.00
17,700.0	90.00	359.92	10,681.5	7,264.4	-10.4	7,264.4	0.00	0.00	0.00
17,800.0	90.00	359.92	10,681.5	7,364.4	-10.5	7,364.4	0.00	0.00	0.00
17,900.0	90.00	359.92	10,681.5	7,464.4	-10.7	7,464.4	0.00	0.00	0.00
18,000.0	90.00	359.92	10,681.5	7,564.4	-10.8	7,564.4	0.00	0.00	0.00
18,100.0	90.00	359.92	10,681.5	7,664.4	-10.9	7,664.4	0.00	0.00	0.00
18,200.0	90.00	359.92	10,681.5	7,764.4	-11.1	7,764.4	0.00	0.00	0.00
18,300.0	90.00	359.92	10,681.5	7,864.4	-11.2	7,864.4	0.00	0.00	0.00
18,400.0	90.00	359.92	10,681.5	7,964.4	-11.4	7,964.4	0.00	0.00	0.00
18,500.0	90.00	359.92	10,681.5	8,064.4	-11.5	8,064.4	0.00	0.00	0.00
18,600.0	90.00	359.92	10,681.5	8,164.4	-11.7	8,164.4	0.00	0.00	0.00
18,700.0	90.00	359.92	10,681.5	8,264.4	-11.8	8,264.4	0.00	0.00	0.00
18,800.0	90.00	359.92	10,681.5	8,364.4	-11.9	8,364.4	0.00	0.00	0.00
18,900.0	90.00	359.92	10,681.5	8,464.4	-12.1	8,464.4	0.00	0.00	0.00
19,000.0	90.00	359.92	10,681.5	8,564.4	-12.2	8,564.4	0.00	0.00	0.00
19,100.0	90.00	359.92	10,681.5	8,664.4	-12.4	8,664.4	0.00	0.00	0.00
19,200.0	90.00	359.92	10,681.5	8,764.4	-12.5	8,764.4	0.00	0.00	0.00
19,300.0	90.00	359.92	10,681.5	8,864.4	-12.7	8,864.4	0.00	0.00	0.00
19,400.0	90.00	359.92	10,681.5	8,964.4	-12.8	8,964.4	0.00	0.00	0.00
19,500.0	90.00	359.92	10,681.5	9,064.4	-12.9	9,064.4	0.00	0.00	0.00
19,600.0	90.00	359.92	10,681.5	9,164.4	-13.1	9,164.4	0.00	0.00	0.00
19,700.0	90.00	359.92	10,681.5	9,264.4	-13.2	9,264.4	0.00	0.00	0.00
19,800.0	90.00	359.92	10,681.5	9,364.4	-13.4	9,364.4	0.00	0.00	0.00
19,900.0	90.00	359.92	10,681.5	9,464.4	-13.5	9,464.4	0.00	0.00	0.00
20,000.0	90.00	359.92	10,681.5	9,564.4	-13.7	9,564.4	0.00	0.00	0.00
20,100.0	90.00	359.92	10,681.5	9,664.4	-13.8	9,664.4	0.00	0.00	0.00
20,200.0	90.00	359.92	10,681.5	9,764.4	-13.9	9,764.4	0.00	0.00	0.00
20,300.0	90.00	359.92	10,681.5	9,864.4	-14.1	9,864.4	0.00	0.00	0.00
20,400.0	90.00	359.92	10,681.5	9,964.4	-14.2	9,964.4	0.00	0.00	0.00
20,500.0	90.00	359.92	10,681.5	10,064.4	-14.4	10,064.4	0.00	0.00	0.00
20,600.0	90.00	359.92	10,681.5	10,164.4	-14.5	10,164.4	0.00	0.00	0.00
20,700.0	90.00	359.92	10,681.5	10,264.4	-14.7	10,264.4	0.00	0.00	0.00
20,800.0	90.00	359.92	10,681.5	10,364.4	-14.8	10,364.4	0.00	0.00	0.00
20,900.0	90.00	359.92	10,681.5	10,464.4	-14.9	10,464.4	0.00	0.00	0.00
21,000.0	90.00	359.92	10,681.5	10,564.4	-15.1	10,564.4	0.00	0.00	0.00
21,100.0	90.00	359.92	10,681.5	10,664.4	-15.2	10,664.4	0.00	0.00	0.00
21,200.0	90.00	359.92	10,681.5	10,764.4	-15.4	10,764.4	0.00	0.00	0.00
21,300.0	90.00	359.92	10,681.5	10,864.4	-15.5	10,864.4	0.00	0.00	0.00
21,400.0	90.00	359.92	10,681.5	10,964.4	-15.7	10,964.4	0.00	0.00	0.00
21,500.0	90.00	359.92	10,681.5	11,064.4	-15.8	11,064.4	0.00	0.00	0.00
21,600.0	90.00	359.92	10,681.5	11,164.4	-15.9	11,164.4	0.00	0.00	0.00
21,700.0	90.00	359.92	10,681.5	11,264.4	-16.1	11,264.4	0.00	0.00	0.00
21,800.0	90.00	359.92	10,681.5	11,364.4	-16.2	11,364.4	0.00	0.00	0.00
21,900.0	90.00	359.92	10,681.5	11,464.4	-16.4	11,464.4	0.00	0.00	0.00
22,000.0	90.00	359.92	10,681.5	11,564.4	-16.5	11,564.4	0.00	0.00	0.00



Well Planning Report



Database: EDM 5000.1 Single User Db
Company: XTO ENERGY, INC.
Project: Eddy County, NM
Site: Sec 31, T26S, R30E (True North)
Well: Ross Draw 3031 Fed #6H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Ross Draw 3031 Fed #6H
TVD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
MD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
North Reference: True
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)
22,100.0	90.00	359.92	10,681.5	11,664.4	-16.7	11,664.4	0.00	0.00	0.00
22,200.0	90.00	359.92	10,681.5	11,764.4	-16.8	11,764.4	0.00	0.00	0.00
22,300.0	90.00	359.92	10,681.5	11,864.4	-16.9	11,864.4	0.00	0.00	0.00
22,400.0	90.00	359.92	10,681.5	11,964.4	-17.1	11,964.4	0.00	0.00	0.00
22,500.0	90.00	359.92	10,681.5	12,064.4	-17.2	12,064.4	0.00	0.00	0.00
22,600.0	90.00	359.92	10,681.5	12,164.4	-17.4	12,164.4	0.00	0.00	0.00
22,700.0	90.00	359.92	10,681.5	12,264.4	-17.5	12,264.4	0.00	0.00	0.00
22,800.0	90.00	359.92	10,681.5	12,364.4	-17.7	12,364.4	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
Ross Draw 3031 Fed #6	0.00	0.00	10,681.5	12,393.2	-17.7	376,541.70	630,269.00	32° 2' 4.311 N	103° 54' 46.611 W
- plan misses target center by 28.8usft at 22800.0usft MD (10681.5 TVD. 12364.4 N. -17.7 E).									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
668.5	668.5	Rustler		0.00	
828.5	828.5	Salado (Top of Salt)		0.00	
3,074.5	3,074.5	Base of Salt			
3,263.5	3,263.5	Delaware (Bell Canyon)			
4,209.5	4,209.5	Cherry Canyon			
5,872.5	5,872.5	Brushy Canyon			
6,806.5	6,806.5	Basal Brushy Canyon			
7,068.5	7,068.5	Bone Spring Lime			
7,986.5	7,986.5	1st Bone Spring Sand			
8,486.5	8,486.5	2nd Bone Spring Lime			
8,683.5	8,683.5	2nd Bone Spring Sand			
9,200.5	9,200.5	3rd Bone Spring Lime			
9,440.5	9,440.5	Harkey sand			
9,702.5	9,702.5	Lower 3rd Bone Spring Lime			
9,743.5	9,743.5	Lower 3rd Bone Spring Shale			
9,918.5	9,918.5	3rd Bone Spring Sand			
10,189.8	10,189.5	3rd Bone Spring Red Hills Sand			
10,259.2	10,257.5	Wolfcamp			
10,294.8	10,291.5	Wolfcamp X Sand			
10,391.9	10,380.5	Wolfcamp Y Sand			
10,425.4	10,409.5	Wolfcamp A Shale			



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Local Co-ordinate Reference: Well Ross Draw 3031 Fed #6H
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MD Reference: WELL @ 3022.5usft (Akita (RKB 21.5'))
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,108.5	10,108.5	0.0	0.0	Build 10°/100
11,008.6	10,681.5	573.0	-0.8	EOC @ 90.00° Inc. / 359.92° AZM. 10681.5' TVD
22,828.8	10,681.5	12,393.2	-17.7	TD @ 22828.8 'MD / 10681.5 ' TVD