

II. ¹⁰ Surface Location

¹¹ Bottom Hole Location

III. Oil and Gas Transporters

IV. Well Completion Data

V. Well Test Data

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ
Printed name: Cassie Evans	Title: PETROLEUM SPECIALIST
Title: Regulatory Analyst	Approval Date: 7/6/2022
E-mail Address: cassie.evans@exxonmobil.com	<i>ceased to Imaging: 7/6/2022 3:12:49 PM</i>

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 AS-DRILLED PLAT

¹ API Number 30-015- 45310	² Pool Code 98241	³ Pool Name WOLFCAMP
⁴ Property Code 318453	⁵ Property Name REMUDA NORTH 31 STATE	
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁶ Well Number 164H
		⁹ Elevation 3,215

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
K	31	23 S	30 E		2,020	SOUTH	2,420	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
C	19	23 S	30 E		130	NORTH	2,287	WEST	EDDY

¹² Dedicated Acres 400	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.

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED
FROM DATA FURNISHED BY XTO ENERGY

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 458,327.9 X= 627,383.4 LAT.= 32.259388°N LONG.= 103.921249°W FIRST TAKE POINT NAD 27 NME Y= 459,291.9 X= 627,266.8 LAT.= 32.262039°N LONG.= 103.921614°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 472,229.0 N, X= 626,232.7 E B - Y= 472,231.9 N, X= 627,570.8 E C - Y= 469,572.6 N, X= 626,250.7 E D - Y= 469,577.0 N, X= 627,589.8 E E - Y= 466,922.6 N, X= 626,269.9 E F - Y= 466,925.8 N, X= 627,608.8 E G - Y= 464,264.1 N, X= 626,285.9 E H - Y= 464,269.8 N, X= 627,623.9 E I - Y= 461,615.5 N, X= 626,302.6 E J - Y= 461,620.3 N, X= 627,639.0 E K - Y= 458,957.2 N, X= 626,320.6 E L - Y= 458,963.8 N, X= 627,657.9 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 472,288.6 N, X= 667,415.4 E B - Y= 472,291.5 N, X= 668,753.5 E C - Y= 469,632.1 N, X= 667,433.5 E D - Y= 469,636.5 N, X= 668,772.6 E E - Y= 466,982.1 N, X= 667,452.8 E F - Y= 466,985.3 N, X= 668,791.7 E G - Y= 464,323.5 N, X= 667,468.9 E H - Y= 464,329.2 N, X= 668,806.9 E I - Y= 461,674.8 N, X= 667,485.7 E J - Y= 461,679.6 N, X= 668,822.1 E K - Y= 459,016.5 N, X= 667,503.8 E L - Y= 459,023.1 N, X= 668,841.1 E LAST TAKE POINT NAD 27 NME Y= 472,029.8 X= 627,173.6 LAT.= 32.297055°N LONG.= 103.921758°W BOTTOM HOLE LOCATION NAD 27 NME Y= 472,100.8 X= 627,173.2 LAT.= 32.297251°N LONG.= 103.921758°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 458,387.2 X= 668,566.6 LAT.= 32.259511°N LONG.= 103.921739°W FIRST TAKE POINT NAD 83 NME Y= 459,351.2 X= 668,450.0 LAT.= 32.262162°N LONG.= 103.922104°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 472,288.6 N, X= 667,415.4 E B - Y= 472,291.5 N, X= 668,753.5 E C - Y= 469,632.1 N, X= 667,433.5 E D - Y= 469,636.5 N, X= 668,772.6 E E - Y= 466,982.1 N, X= 667,452.8 E F - Y= 466,985.3 N, X= 668,791.7 E G - Y= 464,323.5 N, X= 667,468.9 E H - Y= 464,329.2 N, X= 668,806.9 E I - Y= 461,674.8 N, X= 667,485.7 E J - Y= 461,679.6 N, X= 668,822.1 E K - Y= 459,016.5 N, X= 667,503.8 E L - Y= 459,023.1 N, X= 668,841.1 E LAST TAKE POINT NAD 83 NME Y= 472,089.4 X= 668,356.3 LAT.= 32.297178°N LONG.= 103.922249°W BOTTOM HOLE LOCATION NAD 83 NME Y= 472,160.4 X= 668,355.9 LAT.= 32.297373°N LONG.= 103.922250°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. <i>Cheryl Rowell</i> 5/31/19 Signature Date <i>Cheryl Rowell</i> Printed Name <i>cheryl-rowell@xtoenergy.com</i> 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. 5-31-2019 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> MARK DILLON HARP 23786 Certificate Number		
	IC 2018081896		

Intent ☐ As Drilled ☒

API # 30-015-45310		
Operator Name: XTO ENERGY INC	Property Name: REMUDA NORTH 31 STATE	Well Number 164H

Kick Off Point (KOP)

UL K	Section 31	Township 23S	Range 30E	Lot	Feet 1910	From N/S S	Feet 2617	From E/W W	County EDDY
Latitude 32.259210					Longitude 103.921101			NAD 83	

First Take Point (FTP)

UL F	Section 31	Township 23S	Range 30E	Lot	Feet 2327	From N/S N	Feet 2308	From E/W W	County EDDY
Latitude 32.262162					Longitude 103.922104			NAD 83	

Last Take Point (LTP)

UL C	Section 19	Township 23S	Range 30E	Lot	Feet 201	From N/S N	Feet 2287	From E/W W	County EDDY
Latitude 32.297178					Longitude 103.922249			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

Eddy County, NM (NAD-27)

Remuda North 31 State

#164H

OH

Plan: PERMIT Rev2

Standard Planning Report

09 October, 2018



Project: Eddy County, NM (NAD-27)
 Site: Remuda North 31 State
 Well: #164H
 Wellbore: OH
 Design: PERMIT Rev2

PROJECT DETAILS: Eddy County, NM (NAD-27)
 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

WELL DETAILS: #164H

Rig Name:
 RKB = 30' @ 3245.00usft
 Ground Level: 3215.00
 Easting 627363.40
 Northing 458327.90
 Latitude 32.259388
 Longitude -103.921249

DESIGN TARGET DETAILS

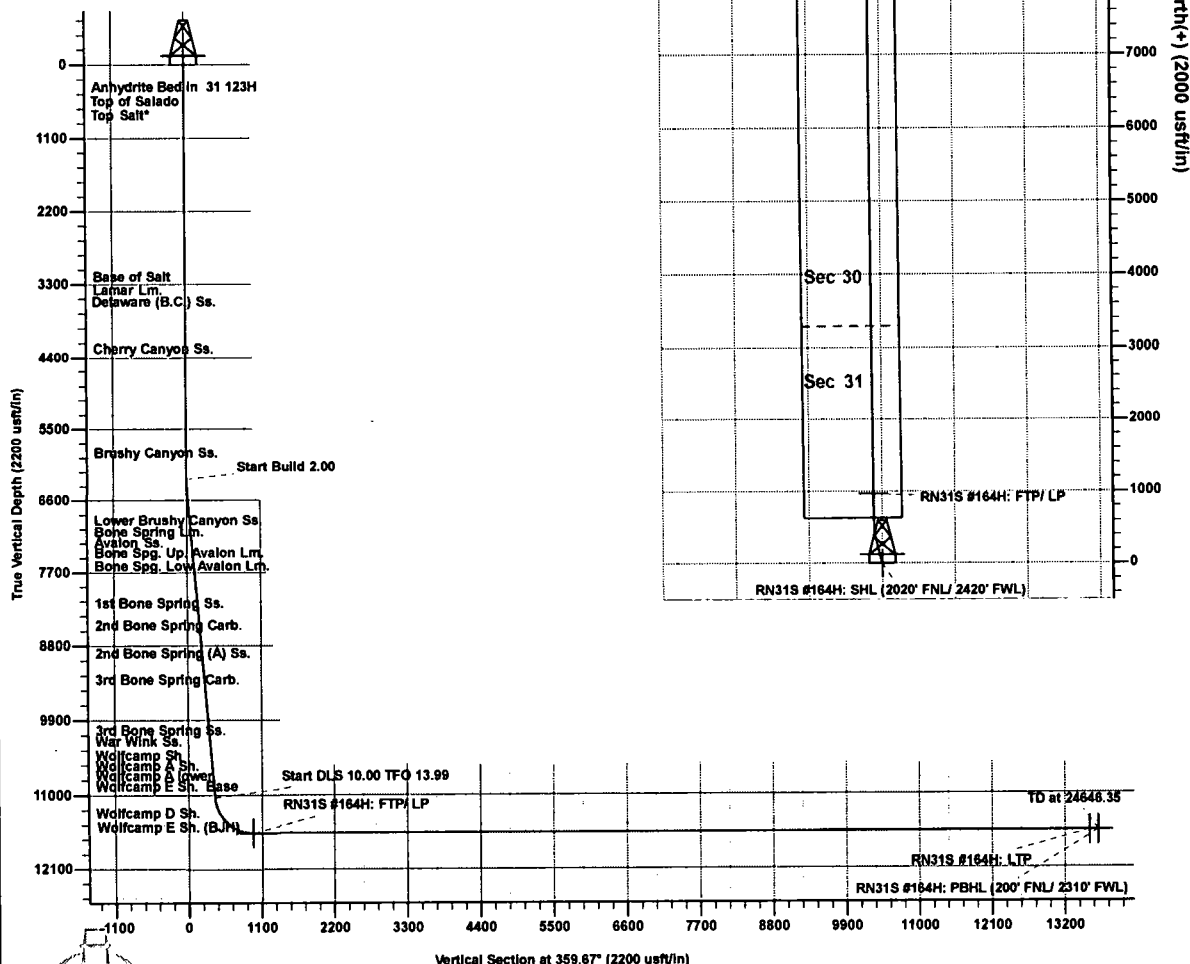
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RN31S #164H: SHL (2020' FNL/ 2420' FWL)	0.00	0.00	0.00	458327.90	627363.40	32.259388	-103.921249	Point
RN31S #164H: PBHL (200' FNL/ 2310' FWL)	11555.00	13703.20	-186.50	472031.10	627196.90	32.297059	-103.921683	Point
RN31S #164H: LTP	11555.07	13573.20	-185.60	471901.10	627197.80	32.296702	-103.921681	Point
RN31S #164H: FTP/LP	11562.00	964.00	-114.20	459291.90	627269.20	32.262039	-103.921607	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6275.00	0.00	0.00	6275.00	0.00	0.00	0.00	0.00	0.00
3	6524.76	5.00	345.73	8524.45	10.55	-2.88	2.00	345.73	10.56
4	11055.10	5.00	345.73	11037.58	392.85	-99.91	0.00	0.00	393.42
5	11906.94	90.03	359.67	11562.00	964.00	-114.20	10.00	13.89	964.84
6	24516.34	90.03	359.67	11555.07	13573.20	-185.76	0.00	0.00	13574.04
7	24646.35	90.03	359.67	11555.00	13703.20	-186.50	0.00	0.00	13704.05

FORMATION TOP DETAILS

TVDPath	Formation
450.00	Anhydrite Bed in 31 123H
506.00	Top of Salado
574.00	Top Salt*
3303.00	Base of Salt
3516.00	Lamar Lm.
3545.00	Delaware (B.C.) Ss.
4377.00	Cherry Canyon Ss.
5981.00	Brushy Canyon Ss.
7021.00	Lower Brushy Canyon Ss.
7264.00	Bone Spring Lm.
7337.00	Avalon Ss.
7446.00	Bone Spg. Up. Avalon Lm.
7719.00	Bone Spg. Low Avalon Lm.
8284.00	1st Bone Spring Ss.
8611.00	2nd Bone Spring Carb.
9029.00	2nd Bone Spring (A) Ss.
9417.00	3rd Bone Spring Carb.
10185.00	3rd Bone Spring Ss.
10412.00	War Wink Ss.
10497.00	Red Hills Ss. Low
10550.00	Wolfcamp Sh
10578.00	Wolfcamp X Sd
10643.00	Wolfcamp Y Sd
10686.00	Wolfcamp A Sh.
10807.00	Wolfcamp A lower
10920.00	Wolfcamp E Sh. Base
11360.00	Wolfcamp D Sh.
11520.00	Wolfcamp E Sh. (BUH)



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by the customer are the sole risk and responsibility of the customer.

Plan: PERMIT Rev2 (#164H/OH)

Created By: Prototype Well Planning, LLC Date: 7:07, October 09 2018



www.prototypewellplanning.com

Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Remuda North 31 State
Well: #164H
Wellbore: OH
Design: PERMIT Rev2

Local Co-ordinate Reference: Well #164H
TVD Reference: RKB = 30' @ 3245.00usft
MD Reference: RKB = 30' @ 3245.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD-27)		
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	Remuda North 31 State			
Site Position:		Northing:	458,327.90 usft	Latitude: 32.259388
From: Map		Easting:	627,383.40 usft	Longitude: -103.921250
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.22 °

Well	#164H			
Well Position	+N/-S	0.00 usft	Northing:	458,327.90 usft
	+E/-W	0.00 usft	Easting:	627,383.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,215.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/25/2018	6.98	60.02	47,793

Design	PERMIT Rev2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.67

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,275.00	0.00	0.01	6,275.00	0.00	0.00	0.00	0.00	0.00	0.01	
6,524.76	5.00	345.73	6,524.45	10.55	-2.68	2.00	2.00	0.00	345.73	
11,055.10	5.00	345.73	11,037.58	392.85	-99.91	0.00	0.00	0.00	0.00	
11,906.94	90.03	359.67	11,562.00	964.00	-114.20	10.00	9.98	1.64	13.99	RN31S #164H: FTF
24,516.34	90.03	359.67	11,555.07	13,573.20	-185.76	0.00	0.00	0.00	0.00	RN31S #164H: LTF
24,646.35	90.03	359.67	11,555.00	13,703.20	-186.50	0.00	0.00	0.00	0.00	RN31S #164H: PBI



www.prototypewellplanning.com
Planning Report

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Site: Remuda North 31 State
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Local Co-ordinate Reference: Well #164H
TVD Reference: RKB = 30' @ 3245.00usft
MD Reference: RKB = 30' @ 3245.00usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
Anhydrite Bed in 31 123H									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
506.00	0.00	0.00	506.00	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salado									
574.00	0.00	0.00	574.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt*									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,303.00	0.00	0.00	3,303.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,516.00	0.00	0.00	3,516.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar Lm.									
3,545.00	0.00	0.00	3,545.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware (B.C.) Ss.									
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00



www.prototypewellplanning.com

Planning Report

Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Remuda North 31 State
 Well: #164H
 Wellbore: OH
 Design: PERMIT Rev2

Local Co-ordinate Reference: Well #164H
 TVD Reference: RKB = 30' @ 3245.00usft
 MD Reference: RKB = 30' @ 3245.00usft
 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)
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,377.00	0.00	0.00	4,377.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon Ss.									
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,981.00	0.00	0.00	5,981.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon Ss.									
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,275.00	0.00	0.01	6,275.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.50	345.73	6,300.00	0.11	-0.03	0.11	2.00	2.00	0.00
6,400.00	2.50	345.73	6,399.96	2.64	-0.67	2.65	2.00	2.00	0.00
6,500.00	4.50	345.73	6,499.77	8.56	-2.18	8.57	2.00	2.00	0.00
6,524.76	5.00	345.73	6,524.45	10.55	-2.68	10.56	2.00	2.00	0.00
6,600.00	5.00	345.73	6,599.40	16.89	-4.30	16.92	0.00	0.00	0.00
6,700.00	5.00	345.73	6,699.02	25.33	-6.44	25.37	0.00	0.00	0.00
6,800.00	5.00	345.73	6,798.64	33.77	-8.59	33.82	0.00	0.00	0.00
6,900.00	5.00	345.73	6,898.26	42.21	-10.73	42.27	0.00	0.00	0.00
7,000.00	5.00	345.73	6,997.88	50.65	-12.88	50.72	0.00	0.00	0.00
7,023.21	5.00	345.73	7,021.00	52.61	-13.38	52.68	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
7,100.00	5.00	345.73	7,097.50	59.09	-15.03	59.17	0.00	0.00	0.00
7,200.00	5.00	345.73	7,197.12	67.53	-17.17	67.62	0.00	0.00	0.00
7,267.14	5.00	345.73	7,264.00	73.19	-18.61	73.30	0.00	0.00	0.00
Bone Spring Lm.									
7,300.00	5.00	345.73	7,296.74	75.97	-19.32	76.08	0.00	0.00	0.00
7,340.41	5.00	345.73	7,337.00	79.38	-20.19	79.49	0.00	0.00	0.00
Avalon Ss.									
7,400.00	5.00	345.73	7,396.36	84.40	-21.47	84.53	0.00	0.00	0.00
7,449.83	5.00	345.73	7,446.00	88.61	-22.53	88.74	0.00	0.00	0.00
Bone Spg. Up. Avalon Lm.									
7,500.00	5.00	345.73	7,495.98	92.84	-23.61	92.98	0.00	0.00	0.00
7,600.00	5.00	345.73	7,595.60	101.28	-25.76	101.43	0.00	0.00	0.00
7,700.00	5.00	345.73	7,695.22	109.72	-27.90	109.88	0.00	0.00	0.00
7,723.87	5.00	345.73	7,719.00	111.73	-28.42	111.90	0.00	0.00	0.00
Bone Spg. Low Avalon Lm.									



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Wellbore: OH
Design: PERMIT Rev2

Local Co-ordinate Reference: Well #164H
TVD Reference: RKB = 30' @ 3245.00usft
MD Reference: RKB = 30' @ 3245.00usft
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
7,800.00	5.00	345.73	7,794.84	118.16	-30.05	118.33	0.00	0.00	0.00
7,900.00	5.00	345.73	7,894.46	126.60	-32.20	126.78	0.00	0.00	0.00
8,000.00	5.00	345.73	7,994.08	135.04	-34.34	135.23	0.00	0.00	0.00
8,100.00	5.00	345.73	8,093.70	143.48	-36.49	143.68	0.00	0.00	0.00
8,200.00	5.00	345.73	8,193.32	151.91	-38.63	152.13	0.00	0.00	0.00
8,291.02	5.00	345.73	8,284.00	159.60	-40.59	159.83	0.00	0.00	0.00
1st Bone Spring Ss.									
8,300.00	5.00	345.73	8,292.94	160.35	-40.78	160.59	0.00	0.00	0.00
8,400.00	5.00	345.73	8,392.56	168.79	-42.93	169.04	0.00	0.00	0.00
8,500.00	5.00	345.73	8,492.18	177.23	-45.07	177.49	0.00	0.00	0.00
8,600.00	5.00	345.73	8,591.80	185.67	-47.22	185.94	0.00	0.00	0.00
8,619.27	5.00	345.73	8,611.00	187.30	-47.63	187.57	0.00	0.00	0.00
2nd Bone Spring Carb.									
8,700.00	5.00	345.73	8,691.42	194.11	-49.36	194.39	0.00	0.00	0.00
8,800.00	5.00	345.73	8,791.04	202.55	-51.51	202.84	0.00	0.00	0.00
8,900.00	5.00	345.73	8,890.66	210.99	-53.66	211.29	0.00	0.00	0.00
9,000.00	5.00	345.73	8,990.28	219.42	-55.80	219.74	0.00	0.00	0.00
9,038.87	5.00	345.73	9,029.00	222.70	-56.64	223.03	0.00	0.00	0.00
2nd Bone Spring (A) Ss.									
9,100.00	5.00	345.73	9,089.90	227.86	-57.95	228.19	0.00	0.00	0.00
9,200.00	5.00	345.73	9,189.52	236.30	-60.09	236.64	0.00	0.00	0.00
9,300.00	5.00	345.73	9,289.14	244.74	-62.24	245.09	0.00	0.00	0.00
9,400.00	5.00	345.73	9,388.76	253.18	-64.39	253.55	0.00	0.00	0.00
9,428.34	5.00	345.73	9,417.00	255.57	-65.00	255.94	0.00	0.00	0.00
3rd Bone Spring Carb.									
9,500.00	5.00	345.73	9,488.38	261.62	-66.53	262.00	0.00	0.00	0.00
9,600.00	5.00	345.73	9,588.00	270.06	-68.68	270.45	0.00	0.00	0.00
9,700.00	5.00	345.73	9,687.62	278.50	-70.83	278.90	0.00	0.00	0.00
9,800.00	5.00	345.73	9,787.24	286.93	-72.97	287.35	0.00	0.00	0.00
9,900.00	5.00	345.73	9,886.86	295.37	-75.12	295.80	0.00	0.00	0.00
10,000.00	5.00	345.73	9,986.48	303.81	-77.26	304.25	0.00	0.00	0.00
10,100.00	5.00	345.73	10,086.10	312.25	-79.41	312.70	0.00	0.00	0.00
10,199.27	5.00	345.73	10,185.00	320.63	-81.54	321.09	0.00	0.00	0.00
3rd Bone Spring Ss.									
10,200.00	5.00	345.73	10,185.72	320.69	-81.56	321.15	0.00	0.00	0.00
10,300.00	5.00	345.73	10,285.35	329.13	-83.70	329.60	0.00	0.00	0.00
10,400.00	5.00	345.73	10,384.97	337.57	-85.85	338.06	0.00	0.00	0.00
10,427.14	5.00	345.73	10,412.00	339.86	-86.43	340.35	0.00	0.00	0.00
War Wink Ss.									
10,500.00	5.00	345.73	10,484.59	346.01	-87.99	346.51	0.00	0.00	0.00
10,512.46	5.00	345.73	10,497.00	347.06	-88.26	347.56	0.00	0.00	0.00
Red Hills Ss. Low									
10,565.66	5.00	345.73	10,550.00	351.55	-89.40	352.06	0.00	0.00	0.00
Wolfcamp Sh									
10,593.77	5.00	345.73	10,578.00	353.92	-90.01	354.43	0.00	0.00	0.00
Wolfcamp X Sd									
10,600.00	5.00	345.73	10,584.21	354.44	-90.14	354.96	0.00	0.00	0.00
10,659.02	5.00	345.73	10,643.00	359.42	-91.41	359.95	0.00	0.00	0.00
Wolfcamp Y Sd									
10,700.00	5.00	345.73	10,683.83	362.88	-92.29	363.41	0.00	0.00	0.00
10,702.18	5.00	345.73	10,686.00	363.07	-92.33	363.59	0.00	0.00	0.00
Wolfcamp A Sh.									
10,800.00	5.00	345.73	10,783.45	371.32	-94.43	371.86	0.00	0.00	0.00



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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)
10,823.64	5.00	345.73	10,807.00	373.32	-94.94	373.86	0.00	0.00	0.00
Wolfcamp A lower									
10,900.00	5.00	345.73	10,883.07	379.76	-96.58	380.31	0.00	0.00	0.00
10,937.08	5.00	345.73	10,920.00	382.89	-97.37	383.44	0.00	0.00	0.00
Wolfcamp E Sh. Base									
11,000.00	5.00	345.73	10,982.69	388.20	-98.72	388.76	0.00	0.00	0.00
11,055.10	5.00	345.73	11,037.58	392.85	-99.91	393.42	0.00	0.00	0.00
11,100.00	9.41	352.38	11,082.11	398.39	-100.88	398.96	10.00	9.84	14.80
11,150.00	14.39	354.96	11,131.02	408.63	-101.96	409.21	10.00	9.95	5.18
11,200.00	19.37	356.24	11,178.85	423.11	-103.05	423.69	10.00	9.97	2.55
11,250.00	24.37	357.01	11,225.24	441.69	-104.14	442.29	10.00	9.98	1.54
11,300.00	29.36	357.53	11,269.83	464.25	-105.20	464.85	10.00	9.99	1.04
11,350.00	34.36	357.91	11,312.29	490.62	-106.25	491.22	10.00	9.99	0.76
11,400.00	39.35	358.20	11,352.28	520.58	-107.26	521.19	10.00	9.99	0.59
11,436.84	43.04	358.38	11,380.00	544.83	-107.98	545.44	10.00	9.99	0.49
Wolfcamp D Sh.									
11,450.00	44.35	358.44	11,389.51	553.91	-108.24	554.53	10.00	10.00	0.44
11,500.00	49.35	358.64	11,423.70	590.37	-109.16	590.99	10.00	10.00	0.40
11,550.00	54.35	358.81	11,454.58	629.66	-110.04	630.29	10.00	10.00	0.34
11,600.00	59.35	358.96	11,481.91	671.50	-110.85	672.13	10.00	10.00	0.30
11,650.00	64.34	359.09	11,505.50	715.57	-111.60	716.20	10.00	10.00	0.27
11,685.85	67.93	359.18	11,520.00	748.35	-112.09	748.98	10.00	10.00	0.25
Wolfcamp E Sh. (BJH)									
11,700.00	69.34	359.22	11,525.15	761.52	-112.27	762.15	10.00	10.00	0.24
11,750.00	74.34	359.34	11,540.73	809.01	-112.87	809.65	10.00	10.00	0.23
11,800.00	79.34	359.45	11,552.11	857.68	-113.39	858.32	10.00	10.00	0.22
11,850.00	84.34	359.55	11,559.21	907.15	-113.82	907.80	10.00	10.00	0.22
11,900.00	89.34	359.66	11,561.96	957.06	-114.16	957.70	10.00	10.00	0.21
11,906.94	90.03	359.67	11,562.00	964.00	-114.20	964.64	10.00	10.00	0.21
12,000.00	90.03	359.67	11,561.95	1,057.06	-114.73	1,057.70	0.00	0.00	0.00
12,100.00	90.03	359.67	11,561.89	1,157.06	-115.30	1,157.70	0.00	0.00	0.00
12,200.00	90.03	359.67	11,561.84	1,257.06	-115.86	1,257.70	0.00	0.00	0.00
12,300.00	90.03	359.67	11,561.78	1,357.05	-116.43	1,357.70	0.00	0.00	0.00
12,400.00	90.03	359.67	11,561.73	1,457.05	-117.00	1,457.70	0.00	0.00	0.00
12,500.00	90.03	359.67	11,561.67	1,557.05	-117.57	1,557.70	0.00	0.00	0.00
12,600.00	90.03	359.67	11,561.62	1,657.05	-118.13	1,657.70	0.00	0.00	0.00
12,700.00	90.03	359.67	11,561.56	1,757.05	-118.70	1,757.70	0.00	0.00	0.00
12,800.00	90.03	359.67	11,561.51	1,857.05	-119.27	1,857.70	0.00	0.00	0.00
12,900.00	90.03	359.67	11,561.45	1,957.05	-119.84	1,957.70	0.00	0.00	0.00
13,000.00	90.03	359.67	11,561.40	2,057.04	-120.40	2,057.70	0.00	0.00	0.00
13,100.00	90.03	359.67	11,561.34	2,157.04	-120.97	2,157.70	0.00	0.00	0.00
13,200.00	90.03	359.67	11,561.29	2,257.04	-121.54	2,257.70	0.00	0.00	0.00
13,300.00	90.03	359.67	11,561.23	2,357.04	-122.11	2,357.70	0.00	0.00	0.00
13,400.00	90.03	359.67	11,561.18	2,457.04	-122.67	2,457.70	0.00	0.00	0.00
13,500.00	90.03	359.67	11,561.12	2,557.04	-123.24	2,557.70	0.00	0.00	0.00
13,600.00	90.03	359.67	11,561.07	2,657.03	-123.81	2,657.70	0.00	0.00	0.00
13,700.00	90.03	359.67	11,561.02	2,757.03	-124.38	2,757.70	0.00	0.00	0.00
13,800.00	90.03	359.67	11,560.96	2,857.03	-124.94	2,857.70	0.00	0.00	0.00
13,900.00	90.03	359.67	11,560.91	2,957.03	-125.51	2,957.70	0.00	0.00	0.00
14,000.00	90.03	359.67	11,560.85	3,057.03	-126.08	3,057.70	0.00	0.00	0.00
14,100.00	90.03	359.67	11,560.80	3,157.03	-126.65	3,157.70	0.00	0.00	0.00
14,200.00	90.03	359.67	11,560.74	3,257.02	-127.21	3,257.70	0.00	0.00	0.00
14,300.00	90.03	359.67	11,560.69	3,357.02	-127.78	3,357.70	0.00	0.00	0.00



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14,400.00	90.03	359.67	11,560.63	3,457.02	-128.35	3,457.70	0.00	0.00	0.00
14,500.00	90.03	359.67	11,560.58	3,557.02	-128.92	3,557.70	0.00	0.00	0.00
14,600.00	90.03	359.67	11,560.52	3,657.02	-129.48	3,657.70	0.00	0.00	0.00
14,700.00	90.03	359.67	11,560.47	3,757.02	-130.05	3,757.70	0.00	0.00	0.00
14,800.00	90.03	359.67	11,560.41	3,857.01	-130.62	3,857.70	0.00	0.00	0.00
14,900.00	90.03	359.67	11,560.36	3,957.01	-131.19	3,957.70	0.00	0.00	0.00
15,000.00	90.03	359.67	11,560.30	4,057.01	-131.75	4,057.70	0.00	0.00	0.00
15,100.00	90.03	359.67	11,560.25	4,157.01	-132.32	4,157.70	0.00	0.00	0.00
15,200.00	90.03	359.67	11,560.19	4,257.01	-132.89	4,257.70	0.00	0.00	0.00
15,300.00	90.03	359.67	11,560.14	4,357.01	-133.46	4,357.70	0.00	0.00	0.00
15,400.00	90.03	359.67	11,560.08	4,457.00	-134.02	4,457.70	0.00	0.00	0.00
15,500.00	90.03	359.67	11,560.03	4,557.00	-134.59	4,557.70	0.00	0.00	0.00
15,600.00	90.03	359.67	11,559.97	4,657.00	-135.16	4,657.70	0.00	0.00	0.00
15,700.00	90.03	359.67	11,559.92	4,757.00	-135.73	4,757.70	0.00	0.00	0.00
15,800.00	90.03	359.67	11,559.86	4,857.00	-136.29	4,857.70	0.00	0.00	0.00
15,900.00	90.03	359.67	11,559.81	4,957.00	-136.86	4,957.70	0.00	0.00	0.00
16,000.00	90.03	359.67	11,559.75	5,056.99	-137.43	5,057.70	0.00	0.00	0.00
16,100.00	90.03	359.67	11,559.70	5,156.99	-138.00	5,157.70	0.00	0.00	0.00
16,200.00	90.03	359.67	11,559.64	5,256.99	-138.56	5,257.70	0.00	0.00	0.00
16,300.00	90.03	359.67	11,559.59	5,356.99	-139.13	5,357.70	0.00	0.00	0.00
16,400.00	90.03	359.67	11,559.53	5,456.99	-139.70	5,457.70	0.00	0.00	0.00
16,500.00	90.03	359.67	11,559.48	5,556.99	-140.27	5,557.70	0.00	0.00	0.00
16,600.00	90.03	359.67	11,559.42	5,656.99	-140.83	5,657.70	0.00	0.00	0.00
16,700.00	90.03	359.67	11,559.37	5,756.98	-141.40	5,757.70	0.00	0.00	0.00
16,800.00	90.03	359.67	11,559.31	5,856.98	-141.97	5,857.70	0.00	0.00	0.00
16,900.00	90.03	359.67	11,559.26	5,956.98	-142.54	5,957.70	0.00	0.00	0.00
17,000.00	90.03	359.67	11,559.20	6,056.98	-143.10	6,057.70	0.00	0.00	0.00
17,100.00	90.03	359.67	11,559.15	6,156.98	-143.67	6,157.70	0.00	0.00	0.00
17,200.00	90.03	359.67	11,559.09	6,256.98	-144.24	6,257.70	0.00	0.00	0.00
17,300.00	90.03	359.67	11,559.04	6,356.97	-144.81	6,357.70	0.00	0.00	0.00
17,400.00	90.03	359.67	11,558.98	6,456.97	-145.37	6,457.70	0.00	0.00	0.00
17,500.00	90.03	359.67	11,558.93	6,556.97	-145.94	6,557.70	0.00	0.00	0.00
17,600.00	90.03	359.67	11,558.87	6,656.97	-146.51	6,657.70	0.00	0.00	0.00
17,700.00	90.03	359.67	11,558.82	6,756.97	-147.08	6,757.70	0.00	0.00	0.00
17,800.00	90.03	359.67	11,558.76	6,856.97	-147.64	6,857.70	0.00	0.00	0.00
17,900.00	90.03	359.67	11,558.71	6,956.96	-148.21	6,957.70	0.00	0.00	0.00
18,000.00	90.03	359.67	11,558.65	7,056.96	-148.78	7,057.70	0.00	0.00	0.00
18,100.00	90.03	359.67	11,558.60	7,156.96	-149.35	7,157.70	0.00	0.00	0.00
18,200.00	90.03	359.67	11,558.54	7,256.96	-149.92	7,257.70	0.00	0.00	0.00
18,300.00	90.03	359.67	11,558.49	7,356.96	-150.48	7,357.70	0.00	0.00	0.00
18,400.00	90.03	359.67	11,558.43	7,456.96	-151.05	7,457.70	0.00	0.00	0.00
18,500.00	90.03	359.67	11,558.38	7,556.95	-151.62	7,557.70	0.00	0.00	0.00
18,600.00	90.03	359.67	11,558.32	7,656.95	-152.19	7,657.70	0.00	0.00	0.00
18,700.00	90.03	359.67	11,558.27	7,756.95	-152.75	7,757.70	0.00	0.00	0.00
18,800.00	90.03	359.67	11,558.21	7,856.95	-153.32	7,857.70	0.00	0.00	0.00
18,900.00	90.03	359.67	11,558.16	7,956.95	-153.89	7,957.70	0.00	0.00	0.00
19,000.00	90.03	359.67	11,558.10	8,056.95	-154.46	8,057.70	0.00	0.00	0.00
19,100.00	90.03	359.67	11,558.05	8,156.94	-155.02	8,157.70	0.00	0.00	0.00
19,200.00	90.03	359.67	11,557.99	8,256.94	-155.59	8,257.70	0.00	0.00	0.00
19,300.00	90.03	359.67	11,557.94	8,356.94	-156.16	8,357.70	0.00	0.00	0.00
19,400.00	90.03	359.67	11,557.88	8,456.94	-156.73	8,457.70	0.00	0.00	0.00
19,500.00	90.03	359.67	11,557.83	8,556.94	-157.29	8,557.70	0.00	0.00	0.00
19,600.00	90.03	359.67	11,557.77	8,656.94	-157.86	8,657.70	0.00	0.00	0.00
19,700.00	90.03	359.67	11,557.72	8,756.93	-158.43	8,757.70	0.00	0.00	0.00



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Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Remuda North 31 State
Well: #164H
Wellbore: OH
Design: PERMIT Rev2

Local Co-ordinate Reference: Well #164H
TVD Reference: RKB = 30' @ 3245.00usft
MD Reference: RKB = 30' @ 3245.00usft
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)
19,800.00	90.03	359.67	11,557.66	8,856.93	-159.00	8,857.70	0.00	0.00	0.00
19,900.00	90.03	359.67	11,557.61	8,956.93	-159.56	8,957.70	0.00	0.00	0.00
20,000.00	90.03	359.67	11,557.55	9,056.93	-160.13	9,057.70	0.00	0.00	0.00
20,100.00	90.03	359.67	11,557.50	9,156.93	-160.70	9,157.70	0.00	0.00	0.00
20,200.00	90.03	359.67	11,557.44	9,256.93	-161.27	9,257.70	0.00	0.00	0.00
20,300.00	90.03	359.67	11,557.39	9,356.93	-161.83	9,357.70	0.00	0.00	0.00
20,400.00	90.03	359.67	11,557.33	9,456.92	-162.40	9,457.70	0.00	0.00	0.00
20,500.00	90.03	359.67	11,557.28	9,556.92	-162.97	9,557.70	0.00	0.00	0.00
20,600.00	90.03	359.67	11,557.22	9,656.92	-163.54	9,657.70	0.00	0.00	0.00
20,700.00	90.03	359.67	11,557.17	9,756.92	-164.10	9,757.70	0.00	0.00	0.00
20,800.00	90.03	359.67	11,557.11	9,856.92	-164.67	9,857.70	0.00	0.00	0.00
20,900.00	90.03	359.67	11,557.06	9,956.92	-165.24	9,957.70	0.00	0.00	0.00
21,000.00	90.03	359.67	11,557.00	10,056.91	-165.81	10,057.70	0.00	0.00	0.00
21,100.00	90.03	359.67	11,556.95	10,156.91	-166.37	10,157.70	0.00	0.00	0.00
21,200.00	90.03	359.67	11,556.89	10,256.91	-166.94	10,257.70	0.00	0.00	0.00
21,300.00	90.03	359.67	11,556.84	10,356.91	-167.51	10,357.70	0.00	0.00	0.00
21,400.00	90.03	359.67	11,556.78	10,456.91	-168.08	10,457.70	0.00	0.00	0.00
21,500.00	90.03	359.67	11,556.73	10,556.91	-168.64	10,557.70	0.00	0.00	0.00
21,600.00	90.03	359.67	11,556.67	10,656.90	-169.21	10,657.70	0.00	0.00	0.00
21,700.00	90.03	359.67	11,556.62	10,756.90	-169.78	10,757.70	0.00	0.00	0.00
21,800.00	90.03	359.67	11,556.56	10,856.90	-170.35	10,857.70	0.00	0.00	0.00
21,900.00	90.03	359.67	11,556.51	10,956.90	-170.91	10,957.70	0.00	0.00	0.00
22,000.00	90.03	359.67	11,556.45	11,056.90	-171.48	11,057.70	0.00	0.00	0.00
22,100.00	90.03	359.67	11,556.40	11,156.90	-172.05	11,157.70	0.00	0.00	0.00
22,200.00	90.03	359.67	11,556.34	11,256.89	-172.62	11,257.70	0.00	0.00	0.00
22,300.00	90.03	359.67	11,556.29	11,356.89	-173.18	11,357.70	0.00	0.00	0.00
22,400.00	90.03	359.67	11,556.23	11,456.89	-173.75	11,457.70	0.00	0.00	0.00
22,500.00	90.03	359.67	11,556.18	11,556.89	-174.32	11,557.70	0.00	0.00	0.00
22,600.00	90.03	359.67	11,556.12	11,656.89	-174.89	11,657.70	0.00	0.00	0.00
22,700.00	90.03	359.67	11,556.07	11,756.89	-175.45	11,757.70	0.00	0.00	0.00
22,800.00	90.03	359.67	11,556.01	11,856.88	-176.02	11,857.70	0.00	0.00	0.00
22,900.00	90.03	359.67	11,555.96	11,956.88	-176.59	11,957.70	0.00	0.00	0.00
23,000.00	90.03	359.67	11,555.90	12,056.88	-177.16	12,057.70	0.00	0.00	0.00
23,100.00	90.03	359.67	11,555.85	12,156.88	-177.72	12,157.70	0.00	0.00	0.00
23,200.00	90.03	359.67	11,555.79	12,256.88	-178.29	12,257.70	0.00	0.00	0.00
23,300.00	90.03	359.67	11,555.74	12,356.88	-178.86	12,357.70	0.00	0.00	0.00
23,400.00	90.03	359.67	11,555.69	12,456.87	-179.43	12,457.70	0.00	0.00	0.00
23,500.00	90.03	359.67	11,555.63	12,556.87	-179.99	12,557.70	0.00	0.00	0.00
23,600.00	90.03	359.67	11,555.58	12,656.87	-180.56	12,657.70	0.00	0.00	0.00
23,700.00	90.03	359.67	11,555.52	12,756.87	-181.13	12,757.70	0.00	0.00	0.00
23,800.00	90.03	359.67	11,555.47	12,856.87	-181.70	12,857.70	0.00	0.00	0.00
23,900.00	90.03	359.67	11,555.41	12,956.87	-182.26	12,957.70	0.00	0.00	0.00
24,000.00	90.03	359.67	11,555.36	13,056.87	-182.83	13,057.70	0.00	0.00	0.00
24,100.00	90.03	359.67	11,555.30	13,156.86	-183.40	13,157.70	0.00	0.00	0.00
24,200.00	90.03	359.67	11,555.25	13,256.86	-183.97	13,257.70	0.00	0.00	0.00
24,300.00	90.03	359.67	11,555.19	13,356.86	-184.53	13,357.70	0.00	0.00	0.00
24,400.00	90.03	359.67	11,555.14	13,456.86	-185.10	13,457.70	0.00	0.00	0.00
24,500.00	90.03	359.67	11,555.08	13,556.86	-185.67	13,557.70	0.00	0.00	0.00
24,516.34	90.03	359.67	11,555.07	13,573.20	-185.76	13,574.04	0.00	0.00	0.00
24,600.00	90.03	359.67	11,555.03	13,656.86	-186.24	13,657.70	0.00	0.00	0.00
24,646.35	90.03	359.67	11,555.00	13,703.20	-186.50	13,704.05	0.00	0.00	0.00



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Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Remuda North 31 State
Well: #164H
Wellbore: OH
Design: PERMIT Rev2

Local Co-ordinate Reference: Well #164H
TVD Reference: RKB = 30' @ 3245.00usft
MD Reference: RKB = 30' @ 3245.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
RN31S #164H: SHL (: - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	458,327.90	627,383.40	32.259388	-103.921250
RN31S #164H: PBHL - plan hits target center - Point	0.00	0.01	11,555.00	13,703.20	-186.50	472,031.10	627,196.90	32.297059	-103.921683
RN31S #164H: LTP - plan misses target center by 0.16usft at 24516.34usft MD (11555.07 TVD, 13573.20 N, -185.76 E) - Point	0.00	0.01	11,555.07	13,573.20	-185.60	471,901.10	627,197.80	32.296702	-103.921682
RN31S #164H: FTP/I - plan hits target center - Point	0.00	0.01	11,562.00	964.00	-114.20	459,291.90	627,269.20	32.262039	-103.921607

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
450.00	450.00	Anhydrite Bed in 31 123H			
506.00	506.00	Top of Salado			
574.00	574.00	Top Salt*			
3,303.00	3,303.00	Base of Salt			
3,516.00	3,516.00	Lamar Lm.			
3,545.00	3,545.00	Delaware (B.C.) Ss.			
4,377.00	4,377.00	Cherry Canyon Ss.			
5,981.00	5,981.00	Brushy Canyon Ss.			
7,023.21	7,021.00	Lower Brushy Canyon Ss.			
7,267.14	7,264.00	Bone Spring Lm.			
7,340.41	7,337.00	Avalon Ss.			
7,449.83	7,446.00	Bone Spg. Up. Avalon Lm.			
7,723.87	7,719.00	Bone Spg. Low Avalon Lm.			
8,291.02	8,284.00	1st Bone Spring Ss.			
8,619.27	8,611.00	2nd Bone Spring Carb.			
9,038.87	9,029.00	2nd Bone Spring (A) Ss.			
9,428.34	9,417.00	3rd Bone Spring Carb.			
10,199.27	10,185.00	3rd Bone Spring Ss.			
10,427.14	10,412.00	War Wink Ss.			
10,512.46	10,497.00	Red Hills Ss. Low			
10,565.66	10,550.00	Wolfcamp Sh			
10,593.77	10,578.00	Wolfcamp X Sd			
10,659.02	10,643.00	Wolfcamp Y Sd			
10,702.18	10,686.00	Wolfcamp A Sh.			
10,823.64	10,807.00	Wolfcamp A lower			
10,937.08	10,920.00	Wolfcamp E Sh. Base			
11,436.84	11,380.00	Wolfcamp D Sh.			
11,685.85	11,520.00	Wolfcamp E Sh. (BJH)			



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **11/08/18** thru **11/28/18** conduct or supervise the taking of a **MWD Survey** from a depth of **464'** to a depth of **12133'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **XTO Energy Inc** for the **Remuda North 31 State 164H** API No. **30-015-45310** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

Larry
Wright

Digitally signed
by Larry Wright
Date:
2020.03.31
11:38:50 -05'00'

13901 Hwy 105W, Conroe, Texas
77304
PH 936-539-9602



Survey Report

Service Company: Wellbenders

Location: Eddy County

Well: Remuda North 31 State 164H

Rig: Akita 90

API or UWI: 3001545310

Job Number: NMDG2018-1209

State: New Mexico

Operating Company: XTO

County: Eddy

Magnetic Declination: 6.82

Country: USA

Proposed Azimuth: 359.68

Comment

North Reference: GRID

Latitude: 32.25938818

Longitude: -103.92124934

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
464.00	1.80	67.00	463.94	1.38	6.68

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
464.00	1.80	67.00	463.94	1.38	6.68	78.33	6.82	1.34	0.00
544.00	0.90	71.40	543.92	2.07	8.43	76.20	8.68	2.02	1.13
635.00	1.00	74.80	634.90	2.51	9.88	75.75	10.19	2.45	0.13
724.00	1.10	73.30	723.89	2.96	11.44	75.51	11.82	2.89	0.12
822.00	1.30	75.40	821.87	3.51	13.42	75.35	13.87	3.43	0.21
917.00	1.50	69.20	916.84	4.22	15.63	74.89	16.19	4.13	0.26
1012.00	1.80	74.90	1011.80	5.05	18.23	74.51	18.92	4.95	0.36
1107.00	1.90	75.50	1106.75	5.83	21.19	74.61	21.98	5.72	0.11
1202.00	2.00	76.60	1201.70	6.61	24.33	74.80	25.21	6.48	0.11
1297.00	1.80	70.40	1296.64	7.50	27.35	74.67	28.36	7.34	0.30
1392.00	0.90	82.90	1391.62	8.09	29.49	74.66	30.58	7.92	0.99
1487.00	1.00	87.80	1486.60	8.21	31.06	75.19	32.13	8.04	0.14
1581.00	1.00	84.40	1580.59	8.33	32.70	75.72	33.74	8.14	0.06
1676.00	1.20	82.40	1675.57	8.54	34.51	76.10	35.55	8.34	0.21
1771.00	1.30	82.80	1770.55	8.80	36.57	76.46	37.61	8.60	0.11
1866.00	1.40	82.40	1865.52	9.09	38.79	76.81	39.84	8.88	0.11

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1961.00	1.60	81.60	1960.49	9.44	41.25	77.11	42.31	9.21	0.21
2056.00	1.60	97.90	2055.45	9.45	43.87	77.84	44.88	9.21	0.48
2151.00	1.70	101.40	2150.41	8.99	46.57	79.07	47.43	8.73	0.15
2246.00	1.90	96.80	2245.37	8.53	49.51	80.23	50.24	8.25	0.26
2341.00	2.00	97.00	2340.31	8.14	52.72	81.23	53.35	7.84	0.11
2436.00	2.20	98.40	2435.25	7.67	56.17	82.23	56.69	7.35	0.22
2531.00	2.50	93.20	2530.17	7.29	60.04	83.08	60.49	6.95	0.39
2626.00	2.50	93.10	2625.08	7.06	64.18	83.72	64.57	6.70	0.00
2720.00	2.70	94.00	2718.98	6.79	68.44	84.33	68.77	6.41	0.22
2815.00	2.90	93.30	2813.87	6.50	73.07	84.92	73.36	6.09	0.21
2910.00	3.20	96.20	2908.73	6.07	78.10	85.55	78.34	5.64	0.36
3005.00	3.30	100.80	3003.58	5.28	83.43	86.38	83.59	4.81	0.29
3100.00	3.50	102.00	3098.41	4.16	88.95	87.32	89.05	3.66	0.22
3194.00	3.60	106.90	3192.23	2.71	94.58	88.36	94.62	2.18	0.34
3265.00	3.90	109.00	3263.08	1.27	98.99	89.26	99.00	0.72	0.46
3380.00	3.78	107.13	3377.82	-1.12	106.32	90.60	106.32	-1.71	0.15
3475.00	3.12	117.24	3472.65	-3.22	111.61	91.65	111.65	-3.85	0.94
3569.00	2.11	120.40	3566.55	-5.27	115.37	92.62	115.49	-5.91	1.08
3664.00	2.11	119.35	3661.49	-7.01	118.41	93.39	118.61	-7.67	0.04
3759.00	2.11	118.38	3756.42	-8.70	121.47	94.10	121.78	-9.38	0.04
3854.00	2.11	115.57	3851.36	-10.29	124.59	94.72	125.01	-10.98	0.11
3949.00	2.02	117.59	3946.30	-11.82	127.65	95.29	128.19	-12.53	0.12
4044.00	2.02	118.29	4041.24	-13.39	130.61	95.85	131.29	-14.12	0.03
4139.00	2.02	117.59	4136.18	-14.96	133.56	96.39	134.40	-15.70	0.03
4234.00	1.89	117.24	4231.12	-16.45	136.44	96.87	137.43	-17.21	0.14
4328.00	1.89	115.57	4325.07	-17.83	139.22	97.30	140.35	-18.60	0.06
4423.00	1.71	119.17	4420.03	-19.19	141.87	97.70	143.16	-19.99	0.22
4518.00	1.71	118.73	4514.98	-20.57	144.35	98.11	145.81	-21.37	0.01
4613.00	1.71	117.24	4609.94	-21.90	146.85	98.48	148.47	-22.72	0.05
4708.00	1.71	116.80	4704.90	-23.18	149.38	98.82	151.17	-24.02	0.01
4803.00	1.71	116.97	4799.86	-24.47	151.91	99.15	153.86	-25.31	0.01
4898.00	1.49	168.83	4894.82	-26.32	153.41	99.74	155.65	-27.18	1.49
4992.00	1.49	117.50	4988.80	-28.08	154.73	100.29	157.26	-28.95	1.37
5087.00	1.58	117.33	5083.76	-29.25	156.99	100.56	159.69	-30.13	0.09
5182.00	1.58	115.74	5178.73	-30.42	159.33	100.81	162.21	-31.31	0.05
5277.00	1.58	117.50	5273.69	-31.60	161.67	101.06	164.73	-32.50	0.05
5372.00	1.58	117.50	5368.65	-32.81	164.00	101.31	167.25	-33.72	0.00

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5467.00	1.58	117.15	5463.62	-34.01	166.32	101.56	169.76	-34.94	0.01
5561.00	1.71	117.15	5557.58	-35.24	168.72	101.80	172.37	-36.18	0.14
5656.00	1.58	120.75	5652.54	-36.56	171.11	102.06	174.97	-37.51	0.17
5751.00	1.49	118.12	5747.51	-37.81	173.33	102.31	177.40	-38.78	0.12
5846.00	1.41	124.27	5842.48	-39.05	175.38	102.55	179.68	-40.03	0.18
5940.00	1.49	126.64	5936.45	-40.43	177.32	102.84	181.87	-41.42	0.11
6035.00	1.49	127.96	6031.41	-41.93	179.28	103.16	184.12	-42.93	0.04
6130.00	1.49	133.59	6126.38	-43.54	181.15	103.51	186.31	-44.55	0.15
6225.00	1.49	137.28	6221.35	-45.30	182.88	103.91	188.41	-46.32	0.10
6319.00	1.41	140.62	6315.32	-47.09	184.45	104.32	190.36	-48.12	0.12
6414.00	1.41	143.17	6410.29	-48.93	185.89	104.75	192.22	-49.97	0.07
6509.00	1.41	143.43	6505.26	-50.80	187.29	105.18	194.05	-51.85	0.01
6604.00	1.41	145.19	6600.23	-52.70	188.65	105.61	195.87	-53.75	0.05
6699.00	1.41	144.13	6695.20	-54.61	190.00	106.04	197.69	-55.67	0.03
6794.00	1.41	148.79	6790.17	-56.56	191.29	106.47	199.48	-57.62	0.12
6889.00	1.41	148.44	6885.15	-58.55	192.51	106.92	201.22	-59.62	0.01
6983.00	1.49	148.88	6979.12	-60.58	193.75	107.36	203.00	-61.66	0.09
7078.00	1.49	149.49	7074.08	-62.70	195.01	107.82	204.84	-63.79	0.02
7173.00	1.49	152.66	7169.05	-64.87	196.21	108.29	206.65	-65.96	0.09
7268.00	1.32	155.82	7264.02	-66.96	197.22	108.75	208.28	-68.06	0.20
7363.00	1.32	162.68	7359.00	-69.00	198.00	109.21	209.67	-70.11	0.17
7458.00	1.19	170.59	7453.98	-71.02	198.48	109.69	210.81	-72.13	0.23
7554.00	1.10	186.14	7549.96	-72.92	198.55	110.17	211.51	-74.03	0.34
7649.00	1.10	210.75	7644.94	-74.61	197.98	110.65	211.57	-75.72	0.49
7744.00	1.10	213.48	7739.92	-76.16	197.01	111.13	211.22	-77.25	0.06
7839.00	1.32	204.95	7834.90	-77.91	196.05	111.67	210.96	-79.00	0.30
7934.00	1.41	203.55	7929.87	-79.97	195.12	112.29	210.87	-81.06	0.10
8029.00	1.71	212.78	8024.84	-82.23	193.89	112.98	210.60	-83.32	0.41
8124.00	1.80	216.38	8119.79	-84.63	192.23	113.76	210.04	-85.70	0.15
8219.00	1.71	213.30	8214.75	-87.01	190.57	114.54	209.50	-88.08	0.14
8313.00	1.80	212.16	8308.71	-89.44	189.01	115.32	209.11	-90.49	0.10
8408.00	1.80	213.30	8403.66	-91.95	187.40	116.13	208.74	-92.99	0.04
8502.00	1.89	212.69	8497.61	-94.48	185.75	116.96	208.40	-95.52	0.10
8596.00	1.89	206.89	8591.56	-97.17	184.22	117.81	208.27	-98.20	0.20
8691.00	1.80	204.60	8686.51	-99.93	182.89	118.65	208.40	-100.94	0.12
8790.00	1.32	214.80	8785.47	-102.28	181.59	119.39	208.41	-103.29	0.56
8885.00	3.60	210.05	8880.38	-105.76	179.47	120.51	208.31	-106.76	2.41

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8980.00	2.59	190.10	8975.24	-110.45	177.60	121.88	209.14	-111.44	1.54
9075.00	2.51	166.46	9070.15	-114.59	177.71	122.81	211.45	-115.58	1.10
9170.00	2.42	141.50	9165.07	-118.18	179.45	123.37	214.86	-119.18	1.12
9265.00	1.58	128.05	9260.01	-120.56	181.73	123.56	218.08	-121.57	1.01
9360.00	1.71	148.88	9354.97	-122.58	183.49	123.74	220.67	-123.60	0.64
9455.00	0.88	132.97	9449.94	-124.29	184.76	123.93	222.67	-125.32	0.94
9549.00	2.11	156.88	9543.91	-126.37	185.96	124.20	224.84	-127.41	1.44
9644.00	1.41	148.79	9638.87	-128.98	187.26	124.56	227.38	-130.02	0.78
9739.00	2.02	45.80	9733.84	-128.81	189.06	124.27	228.77	-129.87	2.85
9834.00	1.58	55.80	9828.79	-126.91	191.35	123.55	229.61	-127.97	0.57
9928.00	1.89	45.40	9922.75	-125.09	193.52	122.88	230.43	-126.17	0.47
10023.00	1.89	40.25	10017.70	-122.80	195.65	122.11	230.99	-123.89	0.18
10118.00	1.80	34.97	10112.65	-120.38	197.52	121.36	231.31	-121.48	0.20
10213.00	1.41	25.22	10207.61	-118.10	198.87	120.70	231.29	-119.21	0.50
10308.00	1.10	10.63	10302.59	-116.14	199.54	120.20	230.88	-117.26	0.47
10402.00	1.01	10.80	10396.57	-114.44	199.86	119.80	230.30	-115.56	0.10
10497.00	1.01	6.76	10491.56	-112.79	200.11	119.41	229.71	-113.90	0.07
10498.00	1.01	4.30	10492.56	-112.77	200.11	119.40	229.70	-113.89	4.34
10662.00	0.88	341.10	10656.54	-110.14	199.81	118.86	228.16	-111.25	0.24
10757.00	2.00	330.50	10751.50	-108.01	198.76	118.52	226.21	-109.11	1.21
10789.00	5.20	331.30	10783.44	-106.25	197.79	118.24	224.52	-107.35	10.00
10821.00	8.50	336.40	10815.20	-102.81	196.15	117.66	221.46	-103.90	10.48
10852.00	10.70	338.20	10845.77	-98.03	194.16	116.79	217.51	-99.12	7.16
10883.00	13.20	339.60	10876.09	-92.04	191.86	115.63	212.79	-93.11	8.12
10915.00	15.10	337.20	10907.12	-84.78	188.97	114.16	207.11	-85.83	6.21
10946.00	16.60	332.80	10936.94	-77.12	185.38	112.59	200.78	-78.15	6.20
10978.00	19.10	327.30	10967.40	-68.64	180.46	110.83	193.07	-69.65	9.41
11010.00	21.40	324.90	10997.42	-59.46	174.27	108.84	184.14	-60.43	7.64
11041.00	23.40	323.50	11026.08	-49.88	167.36	106.60	174.64	-50.82	6.68
11073.00	26.30	324.50	11055.12	-39.00	159.46	103.74	164.16	-39.89	9.16
11104.00	29.20	324.90	11082.55	-27.22	151.12	100.21	153.56	-28.06	9.37
11136.00	31.30	325.80	11110.19	-13.96	141.96	95.62	142.65	-14.75	6.71
11169.00	33.40	326.10	11138.07	0.67	132.08	89.71	132.08	-0.06	6.38
11199.00	35.20	326.30	11162.85	14.72	122.67	83.16	123.55	14.04	6.01
11231.00	36.40	326.77	11188.80	30.34	112.35	74.89	116.38	29.71	3.85
11262.00	38.20	326.33	11213.46	46.01	102.00	65.72	111.89	45.44	5.87
11294.00	40.62	326.86	11238.18	62.97	90.82	55.26	110.51	62.46	7.64

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
11326.00	43.60	327.12	11261.92	80.96	79.13	44.34	113.21	80.52	9.33
11357.00	46.20	327.65	11283.88	99.39	67.34	34.12	120.05	99.02	8.47
11389.00	48.31	328.88	11305.60	119.38	54.98	24.73	131.43	119.07	7.17
11420.00	49.90	330.40	11325.89	139.60	43.14	17.17	146.11	139.36	6.33
11452.00	51.60	331.90	11346.14	161.30	31.19	10.94	164.29	161.13	6.43
11484.00	53.40	334.00	11365.62	183.91	19.65	6.10	184.96	183.80	7.66
11515.00	55.20	336.00	11383.71	206.73	9.02	2.50	206.93	206.68	7.82
11547.00	56.90	337.20	11401.58	231.09	-1.52	359.62	231.10	231.10	6.16
11579.00	58.50	338.00	11418.68	256.10	-11.83	357.36	256.37	256.16	5.43
11610.00	60.10	339.40	11434.51	280.93	-21.51	355.62	281.75	281.05	6.46
11642.00	61.89	339.87	11450.02	307.17	-31.25	354.19	308.75	307.34	5.74
11673.00	63.52	340.92	11464.24	333.12	-40.49	353.07	335.57	333.34	6.06
11705.00	65.32	342.24	11478.05	360.50	-49.60	352.17	363.90	360.77	6.74
11737.00	67.30	343.64	11490.91	388.51	-58.20	351.48	392.85	388.83	7.37
11768.00	69.41	345.40	11502.35	416.28	-65.88	351.01	421.46	416.64	8.61
11800.00	71.30	346.72	11513.10	445.53	-73.14	350.68	451.49	445.93	7.07
11832.00	73.19	348.39	11522.86	475.29	-79.71	350.48	481.92	475.72	7.72
11895.00	76.10	350.60	11539.54	535.01	-90.77	350.37	542.66	535.51	5.72
11990.00	83.80	354.20	11556.12	627.65	-103.10	350.67	636.06	628.22	8.92
12085.00	89.90	357.60	11561.34	722.21	-109.87	351.35	730.51	722.81	7.35

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
12133.00	89.90	357.60	11561.42	770.16	-111.88	351.73	778.25	770.78	0.00

District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
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District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-45310
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name REMUDA NORTH 31 STATE
8. Well Number 164H
9. OGRID Number 005380
10. Pool name or Wildcat WOLFCAMP

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
XTO ENERGY, INC.

3. Address of Operator
6401 HOLIDAY HILL RD, BLDG 5, MIDLAND TX 79707

4. Well Location

Unit Letter K : 2020 feet from the NORTH line and 2420 feet from the WEST line
Section 31 Township 23S Range 30E NMPM County EDDY

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3215 GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Completion Operations ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion

XTO respectfully submits this sundry notice of completion operations on the referenced well.

1/8/19 to 6/7/19

MIRU. Frac well, 86 stages, from 12328' to 25080', using a total of 31,965,720 lbs proppant, 35,024 gals of total acid, and 23,453,718 gals of slickwater.

Drill out frac plugs. Set packer @ 10,740'. Run 2-7/8 tubing set @ 10,741'

First oil: Waiting on facilities.

Spud Date: 11/05/2018

Rig Release Date: 12/29/2018

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cheryl Rowell TITLE Regulatory Coordinator DATE 8/1/2019

Type or print name Cheryl Rowell E-mail address: cheryl_rowell@xtoenergy.com PHONE: 432-571-8205

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Remuda North 31 State		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____								6. Well Number: 164H		
8. Name of Operator XTO Energy Inc						9. OGRID 05380				
10. Address of Operator 6401 Holiday Hill rd BLDG 5, Midland TX 79707						11. Pool name or Wildcat WC-015 G-05 S233031K; WOLFCAMP				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	K	31	23S	30E		220	South	2420	West	Eddy
BH:	C	19	23S	30E		130	North	2287	West	Eddy
13. Date Spudded 11/05/2018	14. Date T.D. Reached 11/24/18		15. Date Rig Released 12/29/18			16. Date Completed (Ready to Produce) 8/14/2019		17. Elevations (DF and RKB, RT, GR, etc.) 3215' GL		
18. Total Measured Depth of Well 25210			19. Plug Back Measured Depth 25208			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run CBL		
22. Producing Interval(s), of this completion - Top, Bottom, Name 12328 - 25080										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
18 5/8		87.5# J55		464		24		982		
13 3/8		68# HCL80		3331		17.5		2670		
9 5/8		40# HCL 80		10560		12.25		2746		
5.5		23# HCP 110		25210		8.75		6191		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
						2-7/8		10741		10740
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
12328- 25080 4spf, frac with 31965720# proppant, 23453718 gal slickwater, 35024 gal acid						12328-25080		31965720# proppant, 23453718 gal slickwater, 35024 gal acid		
28. PRODUCTION										
Date First Production 08/15/19		Production Method (Flowing, gas lift, pumping - Size and type pump) GL				Well Status (Prod. or Shut-in) Prod				
Date of Test 10/15/19	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 789	Gas - MCF 6720	Water - Bbl. 2042	Gas - Oil Ratio			
Flow Tubing Press. 856	Casing Pressure 363	Calculated 24-Hour Rate	Oil - Bbl. 789	Gas - MCF 6720	Water - Bbl. 2042	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold								30. Test Witnessed By		
31. List Attachments C-102, Survey, Survey Cert Letter, log										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____				Longitude _____				NAD83		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Cassie Evans</i>		Printed Name Cassie Evans		Title Regulatory Analyst		Date 06/30/22				
E-mail Address cassie.evans@exxonmobil.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A "
T. Salt 573	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 3300	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand 3516	T. Morrison	
T. Drinkard	T. Bone Springs 7268	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp 10566	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 123135

ACKNOWLEDGMENTS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 123135
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 123135

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 123135
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	7/6/2022