

Office

Energy, Minerals and Natural Resources

Revised July 18, 2013

District I - (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

District II - (575) 748-1283

811 S. First St., Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87416

District IV - (505) 476-3460

1220 S. St. Francis Dr., Santa Fe, NM

87505

RECEIVED

OIL CONSERVATION DIVISION

JUN 17 2019

1220 South St. Francis Dr.

Santa Fe, NM 87505

DISTRICT II-ARTESIA O.C.D.

WELL API NO.

30-015-44312\

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

STATE

7. Lease Name or Unit Agreement Name

REMUDA NORTH 25 STATE

8. Well Number

126H

9. OGRID Number

5380

10. Pool name or Wildcat

PURPLE SAGE; 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 79705

4. Well Location

Unit Letter J : 2280 feet from the SOUTH line and 1965 feet from the EAST line

Section 25 Township 23S Range 29E NMPM County EDDY

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

3058' 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: ☐

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 Energy, Inc requests permission to make the following changes:

- Change name from Remuda North 25 State 126H to Remuda North 25 State 906H.
- Change BHL from 200'FNL & 1656'FEL to 50'FNL & 1350'FEL
- Change Target from Purple Sage; Wolfcamp (Gas) to Nash Draw; Delaware Bone Spring, Avalon Sand (Oil).
- Change the drilling program per the attached procedure.

Spud Date:

Rig Release Date:

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

SIGNATURE Kelly Kardos TITLE Regulatory Coordinator DATE 6/15/19Type or print name Kelly Kardos E-mail address: kelly_kardos@xtoenergy.com PHONE: 432-620-4374

For State Use Only

APPROVED BY: Haren Sharp TITLE Staff Mgr DATE 7-24-19

Conditions of Approval (if any):

NM STATE DRILLING PERMITTING

Remuda North 25 State 906H

		Deepest TVD	10313			KOP	9779	End of Curve		10669			Measured depth	18087
Casing Type	Fluid Type	Mud Weight	Hole Size	Casing Size	Casing Grade	Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Sks Cement	TOC		
Surface	FW/Native	8.3 - 9.7	20	16	H40 STC	64	0	350	90	275	365	0		
1st Intermediate	Brine	9.0-10.3	14.75	11.75	H-40 STC	42	0	3150	1039	168	1207	0		
2nd Intermediate	FW/Native	8.3-9.7	10.875	8.625	J-55 LTC	32	0	7550	1104	84	1189	0		
Production	FW/Cut Brine	8.5 - 10	7.875	5.5	P110 BTC	17	0	18087	188	993	1180	7050		
	OBM	9.6	7.875											

Max Expected Surface Pressure

2879

BOP

Cameron 5M Double Ram BOP

Test Pressure 5000

Total Vertical Section

7418

Contingencies

1. DV tool may be set in 2nd intermediate between 3200-3400'



RECEIVED

JUN 17 2019

DISTRICT II-ARTESIA O.C.D.

XTO Energy

**Eddy County, NM (NAD-27)
Remuda North 25 State
#906H**

OH

Plan: PERMIT

Standard Planning Report

30 May, 2019



Project: Eddy County, NM (NAD-27)
Site: Ramuda North 25 State
Well: #906H
Wellbore: OH
Design: PERMIT

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

DESIGN TARGET DETAILS

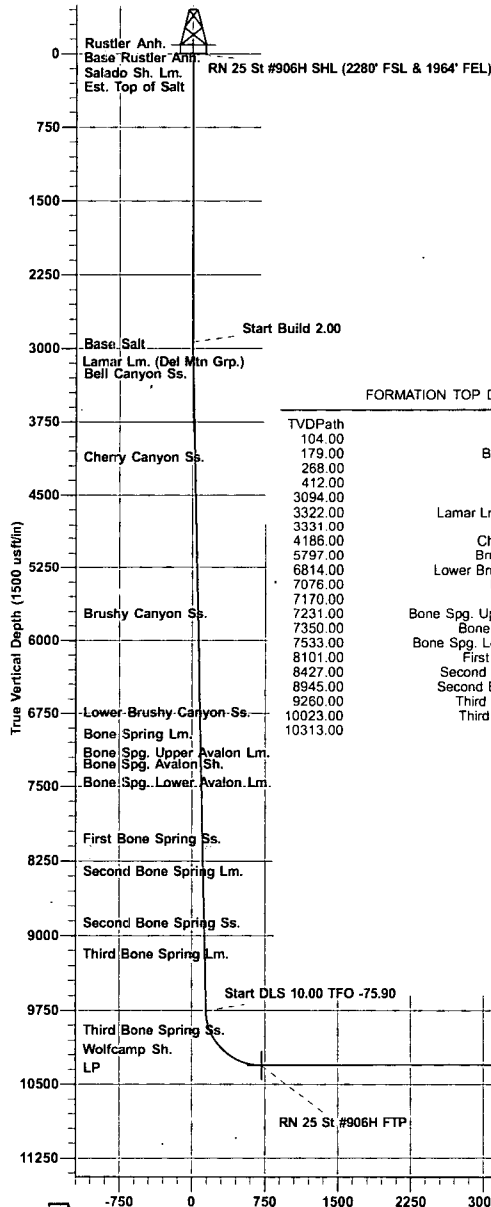
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RN 25 St #906H-SHL (2280' FSL & 1964' FEL)	0.00	0.00	0.00	463888.10	622973.40	32.2747184	-103.9354487	Point
RN 25 St #906H LTP	10293.00	8009.70	564.30	471897.80	623537.70	32.2967305	-103.9335263	Point
RN 25 St #906H PBHL (200' FNL & 1350' FEL)	10293.00	8139.70	563.40	472027.80	623536.80	32.2970879	-103.9335276	Point
RN 25 St #906H FTP	10313.00	721.60	611.60	464609.70	623585.00	32.2766958	-103.9334611	Point

WELL DETAILS: #906H

Rig Name: RKB = 25 @ 3084.00usft			
Ground Level: 3059.00			
+N/-S	+E/-W	Northing	Longitude
0.00	0.00	463888.10	-103.9354487

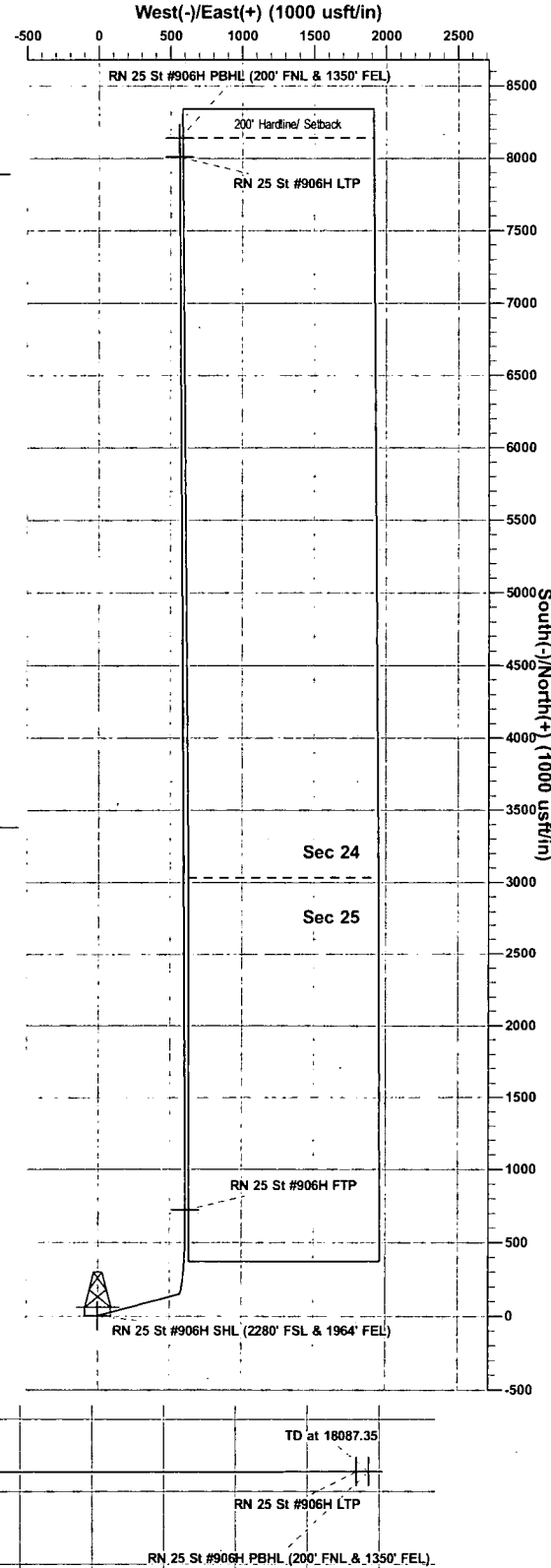
SECTION DETAILS

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	2930.00	0.00	0.00	2930.00	0.00	0.00	0.00	0.00	0.00
3	3180.15	5.00	75.49	3179.84	2.73	10.57	2.00	75.49	2.67
4	3779.73	5.00	75.49	3754.27	146.94	567.77	0.00	0.00	143.27
5	10669.07	90.15	359.63	10313.00	721.60	611.60	10.00	-75.90	717.64
6	17957.35	90.15	359.63	10293.35	8009.70	564.24	0.00	0.00	8005.89
7	18087.35	90.15	359.63	10293.00	8139.70	563.40	0.00	0.00	8135.89



FORMATION TOP DETAILS

TVDPath	Formation
104.00	Rustler Anh.
179.00	Base Rustler Anh.
268.00	Salado Sh. Lm.
412.00	Est. Top of Salt
3094.00	Base Salt
3322.00	Lamar Lm. (Del Min Grp.)
3331.00	Bell Canyon Ss.
4186.00	Cherry Canyon Ss.
5797.00	Brushy Canyon Ss.
6814.00	Lower Brushy Canyon Ss.
7076.00	Bone Spring Lm.
7170.00	Avalon Ss.
7231.00	Bone Ssg. Upper Avalon Lm.
7350.00	Bone Ssg. Avalon Sh.
7533.00	Bone Ssg. Lower Avalon Lm.
8101.00	First Bone Spring Ss.
8427.00	Second Bone Spring Lm.
8945.00	Second Bone Spring Ss.
9260.00	Third Bone Spring Lm.
10023.00	Third Bone Spring Ss.
10313.00	LP



Vertical Section at 359.63° (1500 usft/in)

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 Prototype are at the sole risk and responsibility of the user.

Plan: PERMIT (#906H/OH)

Created By: Matthew May Date: 14:39, May 30 2019

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District IV
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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

JUN 17 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

DISTRICT II-ARTESIA O.C.D.

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name REMUDA NORTH 25 STATE			
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			
		⁶ Well Number 906H			
		⁹ Elevation 3,059'			

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
J	25	23 S	29 E		2,280	SOUTH	1,964	EAST	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
B	24	23 S	29 E		200	NORTH	1,350	EAST	EDDY

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

¹⁶	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 463,888.1 X= 622,973.4 LAT.= 32.274718°N LONG.= 103.935449°W FIRST TAKE POINT NAD 27 NME Y= 464,609.7 X= 623,585.0 LAT.= 32.276696°N LONG.= 103.933461°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 464,259.7 N, X= 622,286.2 E B - Y= 464,258.9 N, X= 623,667.2 E C - Y= 466,919.8 N, X= 622,281.3 E D - Y= 466,919.6 N, X= 623,603.9 E E - Y= 469,572.4 N, X= 622,257.3 E F - Y= 469,570.2 N, X= 623,580.9 E G - Y= 472,229.5 N, X= 622,233.2 E H - Y= 472,227.8 N, X= 623,559.3 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 464,319.1 N, X= 663,469.2 E B - Y= 464,318.3 N, X= 664,850.2 E C - Y= 466,979.3 N, X= 663,464.2 E D - Y= 466,979.1 N, X= 664,786.8 E E - Y= 469,631.9 N, X= 663,440.1 E F - Y= 469,629.7 N, X= 664,763.7 E G - Y= 472,289.1 N, X= 663,415.9 E H - Y= 472,287.4 N, X= 664,742.0 E LAST TAKE POINT NAD 27 NME Y= 471,897.8 X= 623,537.7 LAT.= 32.296731°N LONG.= 103.933526°W BOTTOM HOLE LOCATION NAD 27 NME Y= 472,027.8 X= 623,536.8 LAT.= 32.297088°N LONG.= 103.933528°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 463,947.5 X= 664,156.4 LAT.= 32.274841°N LONG.= 103.935940°W FIRST TAKE POINT NAD 83 NME Y= 464,669.1 X= 664,768.0 LAT.= 32.276818°N LONG.= 103.933952°W LAST TAKE POINT NAD 83 NME Y= 471,957.4 X= 664,720.4 LAT.= 32.296853°N LONG.= 103.934018°W BOTTOM HOLE LOCATION NAD 83 NME Y= 472,087.4 X= 664,719.5 LAT.= 32.297210°N LONG.= 103.934020°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. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 05-13-2019 Date of Survey Signature and Seal of Professional Surveyor: _____ MARK DILLON HARP 23786 Certificate Number		AW 2019010067



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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 25 State		
Site Position:		Northing:	463,916.50 usft
From:	Map	Easting:	620,263.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2748238
		Longitude:	-103.9442164
		Grid Convergence:	0.21 °

Well	#906H		
Well Position	+N/-S	-28.40 usft	Northing:
	+E/-W	2,710.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.2747184
		Longitude:	-103.9354486
		Ground Level:	3,059.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	05/30/19	6.92
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,732

Design	PERMIT		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.63

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,930.00	0.00	0.00	2,930.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,180.16	5.00	75.49	3,179.84	2.73	10.57	2.00	2.00	0.00	75.49	
9,779.73	5.00	75.49	9,754.27	146.94	567.77	0.00	0.00	0.00	0.00	
10,669.07	90.15	359.63	10,313.00	721.60	611.60	10.00	9.57	-8.53	-75.90	RN 25 St #906H F1
17,957.35	90.15	359.63	10,293.35	8,009.70	564.24	0.00	0.00	0.00	0.00	RN 25 St #906H LT
18,087.35	90.15	359.63	10,293.00	8,139.70	563.40	0.00	0.00	0.00	0.00	RN 25 St #906H PE



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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
104.00	0.00	0.00	104.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler Anh.									
179.00	0.00	0.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Rustler Anh.									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
268.00	0.00	0.00	268.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado Sh. Lm.									
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
412.00	0.00	0.00	412.00	0.00	0.00	0.00	0.00	0.00	0.00
Est. Top of Salt									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
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
2,930.00	0.00	0.00	2,930.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	1.40	75.49	2,999.99	0.21	0.83	0.21	2.00	2.00	0.00
3,094.09	3.28	75.49	3,094.00	1.18	4.55	1.15	2.00	2.00	0.00
Base Salt									
3,100.00	3.40	75.49	3,099.90	1.26	4.88	1.23	2.00	2.00	0.00
3,180.16	5.00	75.49	3,179.84	2.73	10.57	2.67	2.00	2.00	0.00
3,200.00	5.00	75.49	3,199.61	3.17	12.24	3.09	0.00	0.00	0.00
3,300.00	5.00	75.49	3,299.23	5.35	20.69	5.22	0.00	0.00	0.00
3,322.86	5.00	75.49	3,322.00	5.85	22.62	5.71	0.00	0.00	0.00
Lamar Lm. (Del Mtn Grp.)									
3,331.90	5.00	75.49	3,331.00	6.05	23.38	5.90	0.00	0.00	0.00
Bell Canyon Ss.									
3,400.00	5.00	75.49	3,398.84	7.54	29.13	7.35	0.00	0.00	0.00
3,500.00	5.00	75.49	3,498.46	9.72	37.57	9.48	0.00	0.00	0.00
3,600.00	5.00	75.49	3,598.08	11.91	46.01	11.61	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,700.00	5.00	75.49	3,697.70	14.09	54.46	13.74	0.00	0.00	0.00
3,800.00	5.00	75.49	3,797.32	16.28	62.90	15.87	0.00	0.00	0.00
3,900.00	5.00	75.49	3,896.94	18.46	71.34	18.00	0.00	0.00	0.00
4,000.00	5.00	75.49	3,996.56	20.65	79.79	20.13	0.00	0.00	0.00
4,100.00	5.00	75.49	4,096.18	22.83	88.23	22.26	0.00	0.00	0.00
4,190.17	5.00	75.49	4,186.00	24.80	95.84	24.18	0.00	0.00	0.00
Cherry Canyon Ss.									
4,200.00	5.00	75.49	4,195.80	25.02	96.67	24.39	0.00	0.00	0.00
4,300.00	5.00	75.49	4,295.42	27.20	105.12	26.52	0.00	0.00	0.00
4,400.00	5.00	75.49	4,395.03	29.39	113.56	28.65	0.00	0.00	0.00
4,500.00	5.00	75.49	4,494.65	31.57	122.00	30.78	0.00	0.00	0.00
4,600.00	5.00	75.49	4,594.27	33.76	130.44	32.92	0.00	0.00	0.00
4,700.00	5.00	75.49	4,693.89	35.94	138.89	35.05	0.00	0.00	0.00
4,800.00	5.00	75.49	4,793.51	38.13	147.33	37.18	0.00	0.00	0.00
4,900.00	5.00	75.49	4,893.13	40.31	155.77	39.31	0.00	0.00	0.00
5,000.00	5.00	75.49	4,992.75	42.50	164.22	41.44	0.00	0.00	0.00
5,100.00	5.00	75.49	5,092.37	44.68	172.66	43.57	0.00	0.00	0.00
5,200.00	5.00	75.49	5,191.99	46.87	181.10	45.70	0.00	0.00	0.00
5,300.00	5.00	75.49	5,291.61	49.05	189.55	47.83	0.00	0.00	0.00
5,400.00	5.00	75.49	5,391.22	51.24	197.99	49.96	0.00	0.00	0.00
5,500.00	5.00	75.49	5,490.84	53.42	206.43	52.09	0.00	0.00	0.00
5,600.00	5.00	75.49	5,590.46	55.61	214.88	54.22	0.00	0.00	0.00
5,700.00	5.00	75.49	5,690.08	57.79	223.32	56.35	0.00	0.00	0.00
5,800.00	5.00	75.49	5,789.70	59.98	231.76	58.48	0.00	0.00	0.00
5,807.33	5.00	75.49	5,797.00	60.14	232.38	58.64	0.00	0.00	0.00
Brushy Canyon Ss.									
5,900.00	5.00	75.49	5,889.32	62.16	240.20	60.61	0.00	0.00	0.00
6,000.00	5.00	75.49	5,988.94	64.35	248.65	62.74	0.00	0.00	0.00
6,100.00	5.00	75.49	6,088.56	66.53	257.09	64.87	0.00	0.00	0.00
6,200.00	5.00	75.49	6,188.18	68.72	265.53	67.00	0.00	0.00	0.00
6,300.00	5.00	75.49	6,287.80	70.90	273.98	69.13	0.00	0.00	0.00
6,400.00	5.00	75.49	6,387.41	73.09	282.42	71.26	0.00	0.00	0.00
6,500.00	5.00	75.49	6,487.03	75.27	290.86	73.39	0.00	0.00	0.00
6,600.00	5.00	75.49	6,586.65	77.46	299.31	75.52	0.00	0.00	0.00
6,700.00	5.00	75.49	6,686.27	79.64	307.75	77.65	0.00	0.00	0.00
6,800.00	5.00	75.49	6,785.89	81.83	316.19	79.79	0.00	0.00	0.00
6,828.22	5.00	75.49	6,814.00	82.45	318.57	80.39	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
6,900.00	5.00	75.49	6,885.51	84.01	324.63	81.92	0.00	0.00	0.00
7,000.00	5.00	75.49	6,985.13	86.20	333.08	84.05	0.00	0.00	0.00
7,091.22	5.00	75.49	7,076.00	88.19	340.78	85.99	0.00	0.00	0.00
Bone Spring Lm.									
7,100.00	5.00	75.49	7,084.75	88.38	341.52	86.18	0.00	0.00	0.00
7,185.58	5.00	75.49	7,170.00	90.25	348.75	88.00	0.00	0.00	0.00
Avalon Ss.									
7,200.00	5.00	75.49	7,184.37	90.57	349.96	88.31	0.00	0.00	0.00
7,246.81	5.00	75.49	7,231.00	91.59	353.92	89.30	0.00	0.00	0.00
Bone Spg. Upper Avalon Lm.									
7,300.00	5.00	75.49	7,283.98	92.75	358.41	90.44	0.00	0.00	0.00
7,366.27	5.00	75.49	7,350.00	94.20	364.00	91.85	0.00	0.00	0.00
Bone Spg. Avalon Sh.									
7,400.00	5.00	75.49	7,383.60	94.94	366.85	92.57	0.00	0.00	0.00
7,500.00	5.00	75.49	7,483.22	97.12	375.29	94.70	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
7,549.97	5.00	75.49	7,533.00	98.22	379.51	95.76	0.00	0.00	0.00
Bone Spg. Lower Avalon Lm									
7,600.00	5.00	75.49	7,582.84	99.31	383.74	96.83	0.00	0.00	0.00
7,700.00	5.00	75.49	7,682.46	101.49	392.18	98.96	0.00	0.00	0.00
7,800.00	5.00	75.49	7,782.08	103.68	400.62	101.09	0.00	0.00	0.00
7,900.00	5.00	75.49	7,881.70	105.86	409.06	103.22	0.00	0.00	0.00
8,000.00	5.00	75.49	7,981.32	108.05	417.51	105.35	0.00	0.00	0.00
8,100.00	5.00	75.49	8,080.94	110.23	425.95	107.48	0.00	0.00	0.00
8,120.14	5.00	75.49	8,101.00	110.67	427.65	107.91	0.00	0.00	0.00
First Bone Spring Ss.									
8,200.00	5.00	75.49	8,180.56	112.42	434.39	109.61	0.00	0.00	0.00
8,300.00	5.00	75.49	8,280.17	114.60	442.84	111.74	0.00	0.00	0.00
8,400.00	5.00	75.49	8,379.79	116.79	451.28	113.87	0.00	0.00	0.00
8,447.39	5.00	75.49	8,427.00	117.82	455.28	114.88	0.00	0.00	0.00
Second Bone Spring Lm.									
8,500.00	5.00	75.49	8,479.41	118.97	459.72	116.00	0.00	0.00	0.00
8,600.00	5.00	75.49	8,579.03	121.16	468.17	118.13	0.00	0.00	0.00
8,700.00	5.00	75.49	8,678.65	123.34	476.61	120.26	0.00	0.00	0.00
8,800.00	5.00	75.49	8,778.27	125.53	485.05	122.39	0.00	0.00	0.00
8,900.00	5.00	75.49	8,877.89	127.71	493.50	124.52	0.00	0.00	0.00
8,967.37	5.00	75.49	8,945.00	129.19	499.18	125.96	0.00	0.00	0.00
Second Bone Spring Ss.									
9,000.00	5.00	75.49	8,977.51	129.90	501.94	126.65	0.00	0.00	0.00
9,100.00	5.00	75.49	9,077.13	132.08	510.38	128.79	0.00	0.00	0.00
9,200.00	5.00	75.49	9,176.75	134.27	518.82	130.92	0.00	0.00	0.00
9,283.57	5.00	75.49	9,260.00	136.09	525.88	132.70	0.00	0.00	0.00
Third Bone Spring Lm.									
9,300.00	5.00	75.49	9,276.36	136.45	527.27	133.05	0.00	0.00	0.00
9,400.00	5.00	75.49	9,375.98	138.64	535.71	135.18	0.00	0.00	0.00
9,500.00	5.00	75.49	9,475.60	140.82	544.15	137.31	0.00	0.00	0.00
9,600.00	5.00	75.49	9,575.22	143.01	552.60	139.44	0.00	0.00	0.00
9,700.00	5.00	75.49	9,674.84	145.19	561.04	141.57	0.00	0.00	0.00
9,779.73	5.00	75.49	9,754.27	146.94	567.77	143.27	0.00	0.00	0.00
9,800.00	5.84	55.78	9,774.45	147.74	569.48	144.06	10.00	4.11	-97.26
9,850.00	9.56	29.90	9,824.00	152.77	573.65	149.06	10.00	7.45	-51.75
9,900.00	14.09	19.40	9,872.93	162.12	577.75	158.38	10.00	9.07	-21.00
9,950.00	18.86	14.03	9,920.87	175.71	581.73	171.95	10.00	9.53	-10.75
10,000.00	23.72	10.78	9,967.44	193.44	585.58	189.66	10.00	9.72	-6.50
10,050.00	28.63	8.59	10,012.30	215.18	589.25	211.37	10.00	9.81	-4.38
10,062.26	29.84	8.15	10,023.00	221.10	590.12	217.29	10.00	9.85	-3.55
Third Bone Spring Ss.									
10,100.00	33.56	6.99	10,055.11	240.76	592.72	236.92	10.00	9.87	-3.07
10,150.00	38.51	5.77	10,095.53	269.98	595.97	266.13	10.00	9.90	-2.45
10,200.00	43.47	4.78	10,133.26	302.63	598.97	298.75	10.00	9.92	-1.97
10,250.00	48.43	3.96	10,168.01	338.45	601.69	334.55	10.00	9.93	-1.64
10,300.00	53.40	3.26	10,199.53	377.17	604.13	373.26	10.00	9.94	-1.41
10,350.00	58.38	2.64	10,227.56	418.50	606.25	414.57	10.00	9.95	-1.24
10,400.00	63.35	2.08	10,251.90	462.12	608.04	458.18	10.00	9.95	-1.11
10,450.00	68.33	1.57	10,272.35	507.70	609.49	503.76	10.00	9.96	-1.02
10,500.00	73.31	1.10	10,288.77	554.90	610.59	550.95	10.00	9.96	-0.95
10,550.00	78.29	0.65	10,301.04	603.35	611.33	599.39	10.00	9.96	-0.90
10,600.00	83.27	0.21	10,309.04	652.69	611.70	648.72	10.00	9.96	-0.87
10,650.00	88.25	359.79	10,312.74	702.54	611.70	698.57	10.00	9.96	-0.85



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
10,669.07	90.15	359.63	10,313.00	721.60	611.60	717.64	10.00	9.96	-0.85
LP									
10,700.00	90.15	359.63	10,312.92	752.53	611.40	748.57	0.00	0.00	0.00
10,800.00	90.15	359.63	10,312.65	852.53	610.75	848.57	0.00	0.00	0.00
10,900.00	90.15	359.63	10,312.38	952.53	610.10	948.57	0.00	0.00	0.00
11,000.00	90.15	359.63	10,312.11	1,052.53	609.45	1,048.57	0.00	0.00	0.00
11,100.00	90.15	359.63	10,311.84	1,152.52	608.80	1,148.57	0.00	0.00	0.00
11,200.00	90.15	359.63	10,311.57	1,252.52	608.15	1,248.57	0.00	0.00	0.00
11,300.00	90.15	359.63	10,311.30	1,352.52	607.50	1,348.57	0.00	0.00	0.00
11,400.00	90.15	359.63	10,311.03	1,452.52	606.85	1,448.57	0.00	0.00	0.00
11,500.00	90.15	359.63	10,310.76	1,552.51	606.20	1,548.57	0.00	0.00	0.00
11,600.00	90.15	359.63	10,310.49	1,652.51	605.55	1,648.57	0.00	0.00	0.00
11,700.00	90.15	359.63	10,310.22	1,752.51	604.90	1,748.57	0.00	0.00	0.00
11,800.00	90.15	359.63	10,309.95	1,852.51	604.25	1,848.56	0.00	0.00	0.00
11,900.00	90.15	359.63	10,309.68	1,952.50	603.60	1,948.56	0.00	0.00	0.00
12,000.00	90.15	359.63	10,309.41	2,052.50	602.95	2,048.56	0.00	0.00	0.00
12,100.00	90.15	359.63	10,309.14	2,152.50	602.30	2,148.56	0.00	0.00	0.00
12,200.00	90.15	359.63	10,308.87	2,252.50	601.65	2,248.56	0.00	0.00	0.00
12,300.00	90.15	359.63	10,308.60	2,352.49	601.00	2,348.56	0.00	0.00	0.00
12,400.00	90.15	359.63	10,308.33	2,452.49	600.35	2,448.56	0.00	0.00	0.00
12,500.00	90.15	359.63	10,308.06	2,552.49	599.70	2,548.56	0.00	0.00	0.00
12,600.00	90.15	359.63	10,307.79	2,652.49	599.05	2,648.56	0.00	0.00	0.00
12,700.00	90.15	359.63	10,307.52	2,752.48	598.40	2,748.56	0.00	0.00	0.00
12,800.00	90.15	359.63	10,307.26	2,852.48	597.75	2,848.56	0.00	0.00	0.00
12,900.00	90.15	359.63	10,306.99	2,952.48	597.10	2,948.56	0.00	0.00	0.00
13,000.00	90.15	359.63	10,306.72	3,052.48	596.45	3,048.56	0.00	0.00	0.00
13,100.00	90.15	359.63	10,306.45	3,152.47	595.81	3,148.56	0.00	0.00	0.00
13,200.00	90.15	359.63	10,306.18	3,252.47	595.16	3,248.56	0.00	0.00	0.00
13,300.00	90.15	359.63	10,305.91	3,352.47	594.51	3,348.56	0.00	0.00	0.00
13,400.00	90.15	359.63	10,305.64	3,452.47	593.86	3,448.56	0.00	0.00	0.00
13,500.00	90.15	359.63	10,305.37	3,552.46	593.21	3,548.56	0.00	0.00	0.00
13,600.00	90.15	359.63	10,305.10	3,652.46	592.56	3,648.56	0.00	0.00	0.00
13,700.00	90.15	359.63	10,304.83	3,752.46	591.91	3,748.56	0.00	0.00	0.00
13,800.00	90.15	359.63	10,304.56	3,852.46	591.26	3,848.56	0.00	0.00	0.00
13,900.00	90.15	359.63	10,304.29	3,952.45	590.61	3,948.56	0.00	0.00	0.00
14,000.00	90.15	359.63	10,304.02	4,052.45	589.96	4,048.56	0.00	0.00	0.00
14,100.00	90.15	359.63	10,303.75	4,152.45	589.31	4,148.56	0.00	0.00	0.00
14,200.00	90.15	359.63	10,303.48	4,252.45	588.66	4,248.56	0.00	0.00	0.00
14,300.00	90.15	359.63	10,303.21	4,352.44	588.01	4,348.56	0.00	0.00	0.00
14,400.00	90.15	359.63	10,302.94	4,452.44	587.36	4,448.56	0.00	0.00	0.00
14,500.00	90.15	359.63	10,302.67	4,552.44	586.71	4,548.55	0.00	0.00	0.00
14,600.00	90.15	359.63	10,302.40	4,652.44	586.06	4,648.55	0.00	0.00	0.00
14,700.00	90.15	359.63	10,302.13	4,752.43	585.41	4,748.55	0.00	0.00	0.00
14,800.00	90.15	359.63	10,301.86	4,852.43	584.76	4,848.55	0.00	0.00	0.00
14,900.00	90.15	359.63	10,301.59	4,952.43	584.11	4,948.55	0.00	0.00	0.00
15,000.00	90.15	359.63	10,301.32	5,052.43	583.46	5,048.55	0.00	0.00	0.00
15,100.00	90.15	359.63	10,301.05	5,152.42	582.81	5,148.55	0.00	0.00	0.00
15,200.00	90.15	359.63	10,300.78	5,252.42	582.16	5,248.55	0.00	0.00	0.00
15,300.00	90.15	359.63	10,300.52	5,352.42	581.51	5,348.55	0.00	0.00	0.00
15,400.00	90.15	359.63	10,300.25	5,452.42	580.86	5,448.55	0.00	0.00	0.00
15,500.00	90.15	359.63	10,299.98	5,552.41	580.21	5,548.55	0.00	0.00	0.00
15,600.00	90.15	359.63	10,299.71	5,652.41	579.56	5,648.55	0.00	0.00	0.00
15,700.00	90.15	359.63	10,299.44	5,752.41	578.91	5,748.55	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
15,800.00	90.15	359.63	10,299.17	5,852.41	578.26	5,848.55	0.00	0.00	0.00
15,900.00	90.15	359.63	10,298.90	5,952.40	577.61	5,948.55	0.00	0.00	0.00
16,000.00	90.15	359.63	10,298.63	6,052.40	576.96	6,048.55	0.00	0.00	0.00
16,100.00	90.15	359.63	10,298.36	6,152.40	576.31	6,148.55	0.00	0.00	0.00
16,200.00	90.15	359.63	10,298.09	6,252.40	575.66	6,248.55	0.00	0.00	0.00
16,300.00	90.15	359.63	10,297.82	6,352.39	575.01	6,348.55	0.00	0.00	0.00
16,400.00	90.15	359.63	10,297.55	6,452.39	574.36	6,448.55	0.00	0.00	0.00
16,500.00	90.15	359.63	10,297.28	6,552.39	573.71	6,548.55	0.00	0.00	0.00
16,600.00	90.15	359.63	10,297.01	6,652.39	573.06	6,648.55	0.00	0.00	0.00
16,700.00	90.15	359.63	10,296.74	6,752.38	572.41	6,748.55	0.00	0.00	0.00
16,800.00	90.15	359.63	10,296.47	6,852.38	571.76	6,848.55	0.00	0.00	0.00
16,900.00	90.15	359.63	10,296.20	6,952.38	571.11	6,948.55	0.00	0.00	0.00
17,000.00	90.15	359.63	10,295.93	7,052.38	570.47	7,048.55	0.00	0.00	0.00
17,100.00	90.15	359.63	10,295.66	7,152.37	569.82	7,148.55	0.00	0.00	0.00
17,200.00	90.15	359.63	10,295.39	7,252.37	569.17	7,248.55	0.00	0.00	0.00
17,300.00	90.15	359.63	10,295.12	7,352.37	568.52	7,348.54	0.00	0.00	0.00
17,400.00	90.15	359.63	10,294.85	7,452.37	567.87	7,448.54	0.00	0.00	0.00
17,500.00	90.15	359.63	10,294.58	7,552.36	567.22	7,548.54	0.00	0.00	0.00
17,600.00	90.15	359.63	10,294.31	7,652.36	566.57	7,648.54	0.00	0.00	0.00
17,700.00	90.15	359.63	10,294.04	7,752.36	565.92	7,748.54	0.00	0.00	0.00
17,800.00	90.15	359.63	10,293.77	7,852.36	565.27	7,848.54	0.00	0.00	0.00
17,900.00	90.15	359.63	10,293.51	7,952.35	564.62	7,948.54	0.00	0.00	0.00
17,957.35	90.15	359.63	10,293.35	8,009.70	564.24	8,005.89	0.00	0.00	0.00
18,000.00	90.15	359.63	10,293.24	8,052.35	563.97	8,048.54	0.00	0.00	0.00
18,087.35	90.15	359.63	10,293.00	8,139.70	563.40	8,135.89	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RN 25 St #906H SHL	0.00	0.00	0.00	0.00	0.00	463,888.10	622,973.40	32.2747184	-103.9354486
- plan hits target center									
- Point									
RN 25 St #906H PBH	0.00	0.00	10,293.00	8,139.70	563.40	472,027.80	623,536.80	32.2970879	-103.9335276
- plan hits target center									
- Point									
RN 25 St #906H LTP	0.00	0.00	10,293.00	8,009.70	564.30	471,897.80	623,537.70	32.2967305	-103.9335263
- plan misses target center by 0.35usft at 17957.35usft MD (10293.35 TVD, 8009.70 N, 564.24 E)									
- Point									
RN 25 St #906H FTP	0.00	0.00	10,313.00	721.60	611.60	464,609.70	623,585.00	32.2766958	-103.9334611
- plan hits target center									
- Point									



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #906H
Company:	XTO Energy	TVD Reference:	RKB = 25 @ 3084.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25 @ 3084.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#906H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
104.00	104.00	Rustler Anh.			
179.00	179.00	Base Rustler Anh.			
268.00	268.00	Salado Sh. Lm.			
412.00	412.00	Est. Top of Salt			
3,094.09	3,094.00	Base Salt			
3,322.86	3,322.00	Lamar Lm. (Del Mtn Grp.)			
3,331.90	3,331.00	Bell Canyon Ss.			
4,190.17	4,186.00	Cherry Canyon Ss.			
5,807.33	5,797.00	Brushy Canyon Ss.			
6,828.22	6,814.00	Lower Brushy Canyon Ss.			
7,091.22	7,076.00	Bone Spring Lm.			
7,185.58	7,170.00	Avalon Ss.			
7,246.81	7,231.00	Bone Spg. Upper Avalon Lm.			
7,366.27	7,350.00	Bone Spg. Avalon Sh.			
7,549.97	7,533.00	Bone Spg. Lower Avalon Lm			
8,120.14	8,101.00	First Bone Spring Ss.			
8,447.39	8,427.00	Second Bone Spring Lm.			
8,967.37	8,945.00	Second Bone Spring Ss.			
9,283.57	9,260.00	Third Bone Spring Lm.			
10,062.26	10,023.00	Third Bone Spring Ss.			
10,669.07	10,313.00	LP			