

¹ API Number 30-015-44315	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 317790	⁵ Property Name REMUDA NORTH 25 STATE	
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁶ Well Number 125H ⁹ Elevation 3,060'

IC 2019010065

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-44232	Operator Name:	Property Name:	Well Number 105H
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November 6, 2019

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

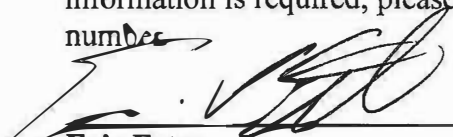
Attn: Colin Gilmore

Re: XTO Energy Inc.
Remuda North 25 State #125H
Nash Draw; Delaware / BS
Eddy County, New Mexico
API# 30-015-44315

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, LLC. (P-5 #828149) Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Jimmy Walker	Original Hole	116ft. to 18,313ft.	07-06-19 to 08-07-19	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures
CC:

XTO Energy Inc.
Attn: Parker Hewitt
6401 Holiday Hill Rd. #5
Midland, Texas 79707

NMEMaNRD\ XTO Energy Inc.\Remuda North 25 State #125H\M191122

STRYKER ENERGY DIRECTIONAL SERVICES, LLC.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



November 6, 2019

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of July 6, 2019 through August 7, 2019, conduct or supervise the taking of a SEDS MWD Original Hole Survey from a depth of 116feet to a depth of 18,313feet; 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 25 State #125H well, API #30-015-44315 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C..

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**STRYKER ENERGY DIRECTIONAL SERVICES, LLC.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163**



OCD Permitting

[Home](#) > [Wells](#) > [Well Details](#)

30-015-44315 REMUDA NORTH 24 STATE #125H [325719]

General Well Information

Operator:	[5380] XTO ENERGY, INC	Direction:	Horizontal
Status:	New	Multi-Lateral:	No
Well Type:	Oil	Mineral Owner:	State
Work Type:	New	Surface Owner:	State
Surface Location:	J-25-23S-29E 2280 FSL 2025 FEL		
Lat/Long:	32.27484158,-103.9361339 NAD83		
GL Elevation:	3059		
KB Elevation:		Sing/Mult Compl:	Single
DF Elevation:		Potash Waiver:	False

Proposed Formation and/or Notes

WOLFCAMP

Depths

Proposed:	18894	True Vertical Depth:	0
Measured Vertical Depth:	0	Plugback Measured:	0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval:	07/16/2017	Current APD Expiration:	07/18/2020
Most Recent APD Approval:	07/19/2017		
APD Cancellation:			
APD Extension Approval:	06/06/2019	Gas Capture Plan Received:	04/19/2018
Spud:		TA Expiration:	
Approved Temporary Abandonment:			
Shut In:		PNR Expiration:	
Plug and Abandoned Intent Received:		Last MIT/BHT:	
Well Plugged:			
Site Release:			
Last Inspection:	09/08/2017		

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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Quick Links

- [General Well Information](#)
- [History](#)
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Associated Images

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- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey Program **Date** 08/07/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
116.00	10,038.00	Survey #1 (125H Lateral)	MWD	OWSG MWD - Standard
10,083.00	18,327.00	Survey #2 (125H Lateral)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	463,888.00	622,913.70
RN25 125H SHL - RN25 126H SHL - RN25 906H SHL										
0.25	0.00	251.90	0.25	0.00	0.00	0.00	251.90	0.00	463,888.00	622,913.70
RN25 105H SHL										
116.00	1.00	251.90	115.99	-0.31	-0.96	1.01	251.90	0.86	463,887.69	622,912.74
194.00	1.40	271.10	193.98	-0.51	-2.56	2.61	258.79	0.72	463,887.49	622,911.14
278.00	1.80	267.10	277.94	-0.55	-4.91	4.94	263.55	0.49	463,887.45	622,908.79
383.00	1.70	264.90	382.90	-0.78	-8.10	8.14	264.53	0.11	463,887.22	622,905.60
470.00	0.70	288.50	469.88	-0.72	-9.89	9.92	265.82	1.26	463,887.28	622,903.81
530.00	0.30	332.10	529.87	-0.47	-10.31	10.32	267.40	0.88	463,887.53	622,903.39
590.00	0.40	31.00	589.87	-0.15	-10.28	10.28	269.17	0.59	463,887.85	622,903.42
655.00	1.30	85.90	654.87	0.10	-9.43	9.43	270.60	1.72	463,888.10	622,904.27
745.00	1.50	88.00	744.84	0.21	-7.23	7.23	271.68	0.23	463,888.21	622,906.47
834.00	1.50	87.00	833.81	0.31	-4.90	4.91	273.66	0.03	463,888.31	622,908.80
924.00	1.50	85.60	923.78	0.47	-2.55	2.60	280.34	0.04	463,888.47	622,911.15
1,013.00	1.60	85.80	1,012.74	0.65	-0.15	0.66	346.68	0.11	463,888.65	622,913.55
1,103.00	1.70	84.60	1,102.71	0.86	2.43	2.58	70.43	0.12	463,888.86	622,916.13
1,193.00	1.30	98.70	1,192.68	0.83	4.77	4.84	80.07	0.60	463,888.83	622,918.47
1,282.00	1.10	109.00	1,281.66	0.40	6.57	6.59	86.48	0.33	463,888.40	622,920.27
1,372.00	1.10	108.00	1,371.64	-0.14	8.21	8.21	91.01	0.02	463,887.86	622,921.91
1,462.00	0.20	144.40	1,461.63	-0.54	9.12	9.14	93.38	1.05	463,887.46	622,922.82
1,551.00	0.70	271.60	1,550.63	-0.65	8.67	8.70	94.29	0.94	463,887.35	622,922.37

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
1,641.00	1.00	280.60	1,640.62	-0.49	7.35	7.37	93.81	0.36	463,887.51	622,921.05
1,731.00	1.10	278.90	1,730.61	-0.21	5.72	5.73	92.12	0.12	463,887.79	622,919.42
1,820.00	1.20	280.30	1,819.59	0.09	3.96	3.96	88.74	0.12	463,888.09	622,917.66
1,910.00	1.40	279.50	1,909.57	0.44	1.95	2.00	77.39	0.22	463,888.44	622,915.65
1,999.00	1.40	279.90	1,998.54	0.80	-0.19	0.83	346.61	0.01	463,888.80	622,913.51
2,089.00	1.60	279.30	2,088.51	1.20	-2.51	2.78	295.43	0.22	463,889.20	622,911.19
2,178.00	1.60	273.80	2,177.47	1.48	-4.98	5.19	286.53	0.17	463,889.48	622,908.72
2,268.00	1.80	275.90	2,267.43	1.71	-7.64	7.83	282.59	0.23	463,889.71	622,906.06
2,357.00	1.90	272.30	2,356.39	1.91	-10.50	10.68	280.30	0.17	463,889.91	622,903.20
2,447.00	1.80	270.90	2,446.34	1.99	-13.41	13.56	278.45	0.12	463,889.99	622,900.29
2,536.00	1.80	263.00	2,535.30	1.84	-16.19	16.30	276.49	0.28	463,889.84	622,897.51
2,626.00	1.80	258.60	2,625.25	1.39	-18.98	19.03	274.19	0.15	463,889.39	622,894.72
2,716.00	2.00	258.90	2,715.20	0.81	-21.91	21.92	272.12	0.22	463,888.81	622,891.79
2,805.00	1.30	254.40	2,804.17	0.24	-24.41	24.41	270.56	0.80	463,888.24	622,889.29
2,895.00	0.50	261.20	2,894.15	-0.09	-25.78	25.78	269.79	0.90	463,887.91	622,887.92
2,985.00	0.40	288.20	2,984.15	-0.06	-26.46	26.46	269.88	0.26	463,887.94	622,887.24
3,050.00	0.30	285.60	3,049.15	0.06	-26.84	26.84	270.13	0.16	463,888.06	622,886.86
3,162.00	0.20	266.70	3,161.15	0.13	-27.32	27.32	270.27	0.11	463,888.13	622,886.38
3,251.00	1.70	357.90	3,250.14	1.44	-27.52	27.56	272.99	1.93	463,889.44	622,886.18
3,341.00	2.70	358.50	3,340.07	4.89	-27.63	28.06	280.04	1.11	463,892.89	622,886.07
3,430.00	3.90	359.50	3,428.92	10.01	-27.71	29.46	289.87	1.35	463,898.01	622,885.99
3,520.00	5.10	6.70	3,518.64	17.05	-27.27	32.16	302.01	1.47	463,905.05	622,886.43
3,609.00	5.20	7.40	3,607.28	24.98	-26.29	36.26	313.53	0.13	463,912.98	622,887.41
3,699.00	5.20	5.60	3,696.91	33.08	-25.37	41.68	322.52	0.18	463,921.08	622,888.33
3,789.00	5.30	6.20	3,786.53	41.27	-24.52	48.00	329.29	0.13	463,929.27	622,889.18
3,878.00	5.50	6.10	3,875.14	49.60	-23.62	54.94	334.53	0.22	463,937.60	622,890.08
3,968.00	5.30	5.70	3,964.74	58.02	-22.75	62.32	338.59	0.23	463,946.02	622,890.95

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
4,057.00	5.50	6.00	4,053.34	66.35	-21.90	69.87	341.74	0.23	463,954.35	622,891.80
4,147.00	5.50	3.20	4,142.93	74.95	-21.20	77.89	344.20	0.30	463,962.95	622,892.50
4,236.00	5.70	4.00	4,231.50	83.62	-20.66	86.13	346.12	0.24	463,971.62	622,893.04
4,326.00	5.80	3.50	4,321.05	92.62	-20.07	94.76	347.77	0.12	463,980.62	622,893.63
4,415.00	6.20	3.70	4,409.56	101.90	-19.48	103.75	349.18	0.45	463,989.90	622,894.22
4,505.00	5.70	355.10	4,499.08	111.20	-19.55	112.91	350.03	1.13	463,999.20	622,894.15
4,594.00	4.10	354.30	4,587.75	118.77	-20.25	120.49	350.33	1.80	464,006.77	622,893.45
4,684.00	3.90	353.20	4,677.53	125.01	-20.93	126.75	350.50	0.24	464,013.01	622,892.77
4,774.00	3.90	352.30	4,767.33	131.09	-21.70	132.87	350.60	0.07	464,019.09	622,892.00
4,863.00	4.20	0.20	4,856.10	137.34	-22.09	139.11	350.86	0.71	464,025.34	622,891.61
4,953.00	4.40	1.00	4,945.85	144.09	-22.02	145.77	351.31	0.23	464,032.09	622,891.68
5,042.00	4.50	359.80	5,034.58	151.00	-21.97	152.59	351.72	0.15	464,039.00	622,891.73
5,132.00	4.30	4.10	5,124.32	157.89	-21.75	159.38	352.16	0.43	464,045.89	622,891.95
5,221.00	3.10	1.10	5,213.13	163.63	-21.46	165.03	352.53	1.37	464,051.63	622,892.24
5,311.00	2.10	356.70	5,303.04	167.71	-21.51	169.08	352.69	1.13	464,055.71	622,892.19
5,400.00	1.70	355.00	5,391.99	170.65	-21.72	172.03	352.75	0.45	464,058.65	622,891.98
5,490.00	1.50	347.80	5,481.95	173.13	-22.08	174.53	352.73	0.31	464,061.13	622,891.62
5,580.00	1.50	342.10	5,571.92	175.40	-22.69	176.87	352.63	0.17	464,063.40	622,891.01
5,669.00	0.30	307.40	5,660.91	176.65	-23.24	178.18	352.51	1.42	464,064.65	622,890.46
5,759.00	0.80	110.70	5,750.91	176.57	-22.84	178.05	352.63	1.21	464,064.57	622,890.86
5,849.00	0.90	116.10	5,840.90	176.04	-21.61	177.36	353.00	0.14	464,064.04	622,892.09
5,938.00	0.70	112.90	5,929.89	175.52	-20.49	176.71	353.34	0.23	464,063.52	622,893.21
6,028.00	0.80	100.40	6,019.88	175.19	-19.36	176.26	353.69	0.21	464,063.19	622,894.34
6,118.00	0.70	100.80	6,109.87	174.98	-18.20	175.92	354.06	0.11	464,062.98	622,895.50
6,207.00	0.70	102.10	6,198.87	174.76	-17.14	175.60	354.40	0.02	464,062.76	622,896.56
6,297.00	0.80	108.80	6,288.86	174.44	-16.01	175.18	354.76	0.15	464,062.44	622,897.69
6,387.00	0.70	108.20	6,378.85	174.07	-14.89	174.71	355.11	0.11	464,062.07	622,898.81

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
6,476.00	0.60	120.90	6,467.84	173.66	-13.97	174.22	355.40	0.20	464,061.66	622,899.73
6,566.00	0.60	119.90	6,557.84	173.18	-13.16	173.68	355.65	0.01	464,061.18	622,900.54
6,656.00	0.60	148.00	6,647.84	172.55	-12.50	173.00	355.86	0.32	464,060.55	622,901.20
6,745.00	0.40	165.10	6,736.83	171.85	-12.17	172.29	355.95	0.28	464,059.85	622,901.53
6,835.00	0.50	159.20	6,826.83	171.18	-11.95	171.60	356.01	0.12	464,059.18	622,901.75
6,925.00	0.70	167.20	6,916.82	170.28	-11.69	170.68	356.07	0.24	464,058.28	622,902.01
7,014.00	0.60	170.10	7,005.82	169.29	-11.49	169.68	356.12	0.12	464,057.29	622,902.21
7,104.00	0.40	182.60	7,095.81	168.51	-11.43	168.90	356.12	0.25	464,056.51	622,902.27
7,194.00	0.50	178.40	7,185.81	167.81	-11.43	168.20	356.10	0.12	464,055.81	622,902.27
7,283.00	0.50	156.40	7,274.81	167.06	-11.26	167.44	356.14	0.21	464,055.06	622,902.44
7,373.00	0.70	157.70	7,364.80	166.19	-10.90	166.55	356.25	0.22	464,054.19	622,902.80
7,462.00	1.40	170.50	7,453.79	164.62	-10.51	164.95	356.35	0.82	464,052.62	622,903.19
7,519.00	1.60	169.80	7,510.77	163.15	-10.26	163.47	356.40	0.35	464,051.15	622,903.44
7,609.00	1.50	174.70	7,600.74	160.74	-9.92	161.05	356.47	0.18	464,048.74	622,903.78
7,674.00	1.60	168.80	7,665.71	159.00	-9.67	159.30	356.52	0.29	464,047.00	622,904.03
7,763.00	1.50	162.90	7,754.68	156.67	-9.09	156.93	356.68	0.21	464,044.67	622,904.61
7,853.00	1.10	157.30	7,844.66	154.75	-8.41	154.98	356.89	0.47	464,042.75	622,905.29
7,942.00	0.40	270.70	7,933.65	153.96	-8.39	154.19	356.88	1.47	464,041.96	622,905.31
8,032.00	0.40	296.30	8,023.65	154.11	-8.98	154.37	356.66	0.20	464,042.11	622,904.72
8,122.00	0.50	309.40	8,113.65	154.49	-9.57	154.79	356.46	0.16	464,042.49	622,904.13
8,211.00	0.60	305.10	8,202.64	155.01	-10.25	155.35	356.22	0.12	464,043.01	622,903.45
8,301.00	0.70	306.20	8,292.64	155.60	-11.08	156.00	355.93	0.11	464,043.60	622,902.62
8,391.00	0.70	252.30	8,382.63	155.76	-12.05	156.23	355.58	0.70	464,043.76	622,901.65
8,480.00	0.50	220.20	8,471.63	155.30	-12.81	155.83	355.28	0.43	464,043.30	622,900.89
8,570.00	0.60	175.70	8,561.62	154.53	-13.03	155.08	355.18	0.47	464,042.53	622,900.67
8,659.00	0.70	173.20	8,650.62	153.53	-12.93	154.07	355.18	0.12	464,041.53	622,900.77
8,749.00	0.70	55.70	8,740.61	153.29	-12.41	153.79	355.37	1.33	464,041.29	622,901.29

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral As Drilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
8,838.00	0.70	106.20	8,829.61	153.44	-11.44	153.87	355.74	0.67	464,041.44	622,902.26
8,928.00	1.00	140.60	8,919.60	152.68	-10.42	153.04	356.10	0.64	464,040.68	622,903.28
9,018.00	0.40	303.70	9,009.59	152.25	-10.18	152.59	356.18	1.54	464,040.25	622,903.52
9,107.00	0.30	187.40	9,098.59	152.19	-10.47	152.55	356.07	0.67	464,040.19	622,903.23
9,197.00	1.80	353.30	9,188.58	153.36	-10.66	153.73	356.02	2.32	464,041.36	622,903.04
9,286.00	1.40	345.30	9,277.55	155.80	-11.10	156.20	355.92	0.51	464,043.80	622,902.60
9,376.00	1.10	329.90	9,367.52	157.61	-11.81	158.06	355.71	0.50	464,045.61	622,901.89
9,466.00	1.00	316.70	9,457.51	158.93	-12.79	159.45	355.40	0.29	464,046.93	622,900.91
9,555.00	0.90	321.40	9,546.50	160.04	-13.75	160.63	355.09	0.14	464,048.04	622,899.95
9,639.00	0.97	309.99	9,630.49	161.02	-14.71	161.69	354.78	0.24	464,049.02	622,898.99
9,724.00	1.20	276.61	9,715.47	161.58	-16.15	162.39	354.29	0.78	464,049.58	622,897.55
9,814.00	1.53	264.70	9,805.45	161.58	-18.28	162.61	353.55	0.48	464,049.58	622,895.42
9,903.00	2.10	215.51	9,894.41	160.14	-20.41	161.44	352.74	1.79	464,048.14	622,893.29
9,993.00	1.07	302.10	9,984.38	159.25	-22.08	160.77	352.11	2.55	464,047.25	622,891.62
10,038.00	6.15	2.84	10,029.28	161.88	-22.32	163.41	352.15	12.67	464,049.88	622,891.38
10,083.00	11.80	358.61	10,073.71	168.89	-22.31	170.36	352.48	12.63	464,056.89	622,891.39
10,127.00	15.93	2.54	10,116.42	179.43	-22.15	180.79	352.96	9.62	464,067.43	622,891.55
10,172.00	18.33	9.99	10,159.43	192.57	-20.65	193.67	353.88	7.22	464,080.57	622,893.05
10,217.00	22.44	12.65	10,201.60	207.92	-17.54	208.66	355.18	9.36	464,095.92	622,896.16
10,262.00	27.57	11.21	10,242.37	226.53	-13.63	226.94	356.56	11.48	464,114.53	622,900.07
10,307.00	30.16	9.40	10,281.78	247.90	-9.76	248.10	357.75	6.07	464,135.90	622,903.94
10,352.00	33.12	11.03	10,320.09	271.13	-5.56	271.19	358.83	6.85	464,159.13	622,908.14
10,396.00	37.04	9.75	10,356.09	296.00	-1.01	296.00	359.80	9.06	464,184.00	622,912.69
10,441.00	42.24	8.65	10,390.73	324.33	3.56	324.35	0.63	11.66	464,212.33	622,917.26
10,486.00	47.60	8.58	10,422.58	355.73	8.32	355.83	1.34	11.91	464,243.73	622,922.02
10,531.00	52.29	6.39	10,451.53	389.87	12.78	390.08	1.88	11.07	464,277.87	622,926.48
10,576.00	54.62	4.58	10,478.33	425.86	16.23	426.17	2.18	6.10	464,313.86	622,929.93

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
10,621.00	59.69	2.67	10,502.73	463.57	18.60	463.95	2.30	11.82	464,351.57	622,932.30
10,665.00	65.00	359.86	10,523.15	502.52	19.44	502.89	2.21	13.33	464,390.52	622,933.14
10,710.00	66.93	359.08	10,541.48	543.61	19.05	543.95	2.01	4.57	464,431.61	622,932.75
10,755.00	69.88	359.42	10,558.04	585.45	18.51	585.74	1.81	6.59	464,473.45	622,932.21
10,800.00	72.63	359.51	10,572.50	628.05	18.11	628.31	1.65	6.11	464,516.05	622,931.81
10,845.00	74.29	358.88	10,585.31	671.19	17.50	671.41	1.49	3.93	464,559.19	622,931.20
10,883.69	74.85	358.18	10,595.60	708.46	16.54	708.66	1.34	2.28	464,596.46	622,930.24
RN25 125H FTP_330FSL_669FWL										
10,889.00	74.93	358.08	10,596.98	713.59	16.38	713.78	1.31	2.28	464,601.59	622,930.08
10,921.13	78.39	359.04	10,604.40	744.84	15.59	745.01	1.20	11.16	464,632.84	622,929.29
RN25 125H LP										
10,934.00	79.78	359.42	10,606.83	757.48	15.42	757.63	1.17	11.16	464,645.48	622,929.12
10,979.00	85.21	1.42	10,612.71	802.07	15.76	802.23	1.13	12.85	464,690.07	622,929.46
11,069.00	89.75	3.30	10,616.66	891.88	19.46	892.09	1.25	5.46	464,779.88	622,933.16
11,158.00	88.88	1.66	10,617.73	980.79	23.31	981.06	1.36	2.09	464,868.79	622,937.01
11,248.00	89.72	3.28	10,618.83	1,070.69	27.19	1,071.04	1.45	2.03	464,958.69	622,940.89
11,338.00	90.00	2.91	10,619.05	1,160.56	32.05	1,161.00	1.58	0.52	465,048.56	622,945.75
11,427.00	89.66	2.00	10,619.31	1,249.48	35.86	1,249.99	1.64	1.09	465,137.48	622,949.56
11,517.00	89.41	1.42	10,620.04	1,339.43	38.55	1,339.99	1.65	0.70	465,227.43	622,952.25
11,607.00	89.78	1.24	10,620.68	1,429.41	40.63	1,429.98	1.63	0.46	465,317.41	622,954.33
11,696.00	89.94	0.75	10,620.90	1,518.39	42.18	1,518.98	1.59	0.58	465,406.39	622,955.88
11,786.00	90.95	359.56	10,620.20	1,608.39	42.42	1,608.95	1.51	1.73	465,496.39	622,956.12
11,876.00	89.92	357.85	10,619.51	1,698.36	40.39	1,698.84	1.36	2.22	465,586.36	622,954.09
11,965.00	90.03	357.74	10,619.55	1,787.29	36.96	1,787.67	1.18	0.17	465,675.29	622,950.66
12,055.00	89.97	356.97	10,619.55	1,877.19	32.81	1,877.48	1.00	0.86	465,765.19	622,946.51
12,145.00	92.07	357.50	10,617.95	1,967.07	28.47	1,967.28	0.83	2.41	465,855.07	622,942.17
12,234.00	92.13	357.07	10,614.69	2,055.91	24.26	2,056.05	0.68	0.49	465,943.91	622,937.96

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H LateralAsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
12,324.00	90.64	357.54	10,612.51	2,145.78	20.03	2,145.87	0.53	1.74	466,033.78	622,933.73	
12,414.00	90.36	0.99	10,611.73	2,235.76	18.87	2,235.84	0.48	3.85	466,123.76	622,932.57	
12,504.00	90.90	1.26	10,610.74	2,325.73	20.64	2,325.83	0.51	0.67	466,213.73	622,934.34	
12,593.00	91.51	1.26	10,608.87	2,414.69	22.60	2,414.80	0.54	0.69	466,302.69	622,936.30	
12,683.00	91.01	1.10	10,606.89	2,504.65	24.45	2,504.77	0.56	0.58	466,392.65	622,938.15	
12,773.00	88.18	1.86	10,607.52	2,594.61	26.77	2,594.75	0.59	3.26	466,482.61	622,940.47	
12,863.00	88.38	2.13	10,610.23	2,684.51	29.91	2,684.68	0.64	0.37	466,572.51	622,943.61	
12,952.00	88.18	1.69	10,612.90	2,773.42	32.87	2,773.62	0.68	0.54	466,661.42	622,946.57	
13,042.00	87.87	1.49	10,616.00	2,863.34	35.37	2,863.55	0.71	0.41	466,751.34	622,949.07	
13,132.00	88.24	1.20	10,619.05	2,953.26	37.48	2,953.50	0.73	0.52	466,841.26	622,951.18	
13,221.00	87.82	0.75	10,622.11	3,042.19	38.99	3,042.44	0.73	0.69	466,930.19	622,952.69	
13,311.00	87.68	0.66	10,625.65	3,132.12	40.10	3,132.37	0.73	0.18	467,020.12	622,953.80	
13,401.00	89.05	359.83	10,628.21	3,222.08	40.48	3,222.33	0.72	1.78	467,110.08	622,954.18	
13,490.00	90.31	359.74	10,628.71	3,311.07	40.15	3,311.32	0.69	1.42	467,199.07	622,953.85	
13,580.00	90.98	359.60	10,627.70	3,401.06	39.63	3,401.30	0.67	0.76	467,289.06	622,953.33	
13,670.00	90.98	359.14	10,626.16	3,491.05	38.64	3,491.26	0.63	0.51	467,379.05	622,952.34	
13,759.00	89.92	358.56	10,625.46	3,580.02	36.85	3,580.21	0.59	1.36	467,468.02	622,950.55	
13,849.00	90.08	358.49	10,625.46	3,669.99	34.54	3,670.16	0.54	0.19	467,557.99	622,948.24	
13,939.00	89.72	358.18	10,625.62	3,759.96	31.92	3,760.09	0.49	0.53	467,647.96	622,945.62	
14,029.00	88.82	357.76	10,626.76	3,849.89	28.74	3,850.00	0.43	1.10	467,737.89	622,942.44	
14,118.00	90.64	357.86	10,627.18	3,938.82	25.33	3,938.90	0.37	2.05	467,826.82	622,939.03	
14,208.00	90.70	357.37	10,626.13	4,028.74	21.59	4,028.79	0.31	0.55	467,916.74	622,935.29	
14,298.00	91.46	357.75	10,624.43	4,118.64	17.76	4,118.68	0.25	0.94	468,006.64	622,931.46	
14,387.00	92.66	358.63	10,621.23	4,207.53	14.95	4,207.56	0.20	1.67	468,095.53	622,928.65	
14,477.00	91.46	358.12	10,618.00	4,297.44	12.40	4,297.45	0.17	1.45	468,185.44	622,926.10	
14,567.00	91.15	358.47	10,615.95	4,387.37	9.72	4,387.38	0.13	0.52	468,275.37	622,923.42	
14,657.00	91.04	358.21	10,614.23	4,477.32	7.11	4,477.32	0.09	0.31	468,365.32	622,920.81	

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
14,746.00	91.43	357.87	10,612.31	4,566.25	4.07	4,566.25	0.05	0.58	468,454.25	622,917.77
14,836.00	91.85	357.94	10,609.74	4,656.15	0.78	4,656.15	0.01	0.47	468,544.15	622,914.48
14,926.00	91.09	359.54	10,607.43	4,746.09	-1.20	4,746.09	359.99	1.97	468,634.09	622,912.50
15,015.00	90.42	359.09	10,606.25	4,835.08	-2.26	4,835.08	359.97	0.91	468,723.08	622,911.44
15,105.00	91.60	359.27	10,604.67	4,925.05	-3.55	4,925.06	359.96	1.33	468,813.05	622,910.15
15,195.00	91.20	2.58	10,602.47	5,015.00	-2.09	5,015.00	359.98	3.70	468,903.00	622,911.61
15,284.00	92.30	2.71	10,599.75	5,103.87	2.01	5,103.87	0.02	1.24	468,991.87	622,915.71
15,374.00	90.00	2.74	10,597.94	5,193.74	6.29	5,193.74	0.07	2.56	469,081.74	622,919.99
15,450.00	90.56	2.31	10,597.57	5,269.66	9.64	5,269.67	0.10	0.93	469,157.66	622,923.34
15,494.00	90.06	1.51	10,597.33	5,313.64	11.10	5,313.65	0.12	2.14	469,201.64	622,924.80
15,584.00	88.35	359.46	10,598.58	5,403.62	11.86	5,403.63	0.13	2.97	469,291.62	622,925.56
15,674.00	87.93	359.87	10,601.50	5,493.57	11.34	5,493.58	0.12	0.65	469,381.57	622,925.04
15,763.00	88.68	359.38	10,604.14	5,582.53	10.76	5,582.54	0.11	1.01	469,470.53	622,924.46
15,853.00	89.69	358.47	10,605.42	5,672.50	9.07	5,672.51	0.09	1.51	469,560.50	622,922.77
15,943.00	88.82	357.76	10,606.59	5,762.44	6.11	5,762.45	0.06	1.25	469,650.44	622,919.81
16,033.00	89.89	359.62	10,607.60	5,852.41	4.05	5,852.41	0.04	2.38	469,740.41	622,917.75
16,122.00	89.83	359.77	10,607.82	5,941.41	3.58	5,941.41	0.03	0.18	469,829.41	622,917.28
16,212.00	89.92	0.00	10,608.01	6,031.41	3.40	6,031.41	0.03	0.27	469,919.41	622,917.10
16,301.00	89.75	0.00	10,608.27	6,120.41	3.40	6,120.41	0.03	0.19	470,008.41	622,917.10
16,391.00	89.52	359.49	10,608.84	6,210.40	3.00	6,210.40	0.03	0.62	470,098.40	622,916.70
16,480.00	89.19	359.45	10,609.85	6,299.39	2.17	6,299.39	0.02	0.37	470,187.39	622,915.87
16,570.00	88.80	359.44	10,611.42	6,389.38	1.30	6,389.38	0.01	0.43	470,277.38	622,915.00
16,659.00	88.46	359.40	10,613.55	6,478.34	0.40	6,478.35	0.00	0.38	470,366.34	622,914.10
16,749.00	87.56	358.69	10,616.68	6,568.28	-1.10	6,568.28	359.99	1.27	470,456.28	622,912.60
16,839.00	89.92	359.33	10,618.66	6,658.23	-2.65	6,658.24	359.98	2.72	470,546.23	622,911.05
16,929.00	90.50	0.38	10,618.33	6,748.23	-2.88	6,748.23	359.98	1.33	470,636.23	622,910.82
17,018.00	89.33	0.06	10,618.46	6,837.23	-2.54	6,837.23	359.98	1.36	470,725.23	622,911.16

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-125H
Wellbore: 125H Lateral
Design: 125H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-125H - Slot RN25 125H SHL
TVD Reference: 3059+18 @ 3077.00usft (Precision525)
MD Reference: 3059+18 @ 3077.00usft (Precision525)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: STRYKER_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
17,108.00	90.70	359.34	10,618.44	6,927.23	-3.01	6,927.23	359.98	1.72	470,815.23	622,910.69
17,198.00	92.16	359.30	10,616.19	7,017.19	-4.08	7,017.19	359.97	1.62	470,905.19	622,909.62
17,287.00	92.16	359.16	10,612.84	7,106.12	-5.27	7,106.12	359.96	0.16	470,994.12	622,908.43
17,377.00	92.07	359.27	10,609.51	7,196.05	-6.51	7,196.05	359.95	0.16	471,084.05	622,907.19
17,467.00	92.41	359.83	10,606.00	7,285.98	-7.21	7,285.98	359.94	0.73	471,173.98	622,906.49
17,556.00	90.78	0.63	10,603.52	7,374.94	-6.85	7,374.94	359.95	2.04	471,262.94	622,906.85
17,646.00	90.39	0.78	10,602.60	7,464.93	-5.75	7,464.93	359.96	0.46	471,352.93	622,907.95
17,736.00	89.47	0.25	10,602.71	7,554.92	-4.94	7,554.92	359.96	1.18	471,442.92	622,908.76
17,825.00	89.30	0.47	10,603.67	7,643.91	-4.38	7,643.91	359.97	0.31	471,531.91	622,909.32
17,915.00	88.80	359.83	10,605.16	7,733.90	-4.14	7,733.90	359.97	0.90	471,621.90	622,909.56
18,004.00	88.49	359.85	10,607.26	7,822.87	-4.39	7,822.88	359.97	0.35	471,710.87	622,909.31
18,094.00	88.32	359.85	10,609.77	7,912.84	-4.63	7,912.84	359.97	0.19	471,800.84	622,909.07
18,184.00	87.67	359.74	10,612.92	8,002.78	-4.95	8,002.78	359.96	0.73	471,890.78	622,908.75
18,184.46	87.67	359.74	10,612.93	8,003.25	-4.95	8,003.25	359.96	0.00	471,891.25	622,908.75
RN25 105H LTP_330FNL_341FWL										
18,188.02	87.69	359.75	10,613.08	8,006.80	-4.97	8,006.80	359.96	0.66	471,894.80	622,908.73
RN25 126H LTP_330FNL_104FEL										
18,191.48	87.71	359.76	10,613.22	8,010.26	-4.98	8,010.26	359.96	0.58	471,898.26	622,908.72
RN25 125H LTP_330FNL_654FEL										
18,273.00	88.10	0.03	10,616.20	8,091.72	-5.13	8,091.72	359.96	0.58	471,979.72	622,908.57
18,281.00	87.98	0.14	10,616.47	8,099.72	-5.12	8,099.72	359.96	2.03	471,987.72	622,908.58
18,313.32	87.98	0.14	10,617.61	8,132.01	-5.04	8,132.02	359.96	0.00	472,020.01	622,908.66
RN25 105H PBHL_200FNL_342FWL										
18,321.41	87.98	0.14	10,617.90	8,140.11	-5.02	8,140.11	359.96	0.00	472,028.11	622,908.68
RN25 125H PBHL_200FNL_654FEL - RN25 126H PBHL_200FNL_104FEL										
18,327.00	87.98	0.14	10,618.10	8,145.69	-5.00	8,145.69	359.96	0.00	472,033.69	622,908.70