

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

OCD-ARTESIA
REC'D: 5/14/2020

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 30-015-44232	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 317790	⁵ Property Name REMUDA NORTH 25 STATE	⁶ Well Number 105H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	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	2,055	EAST	EDDY

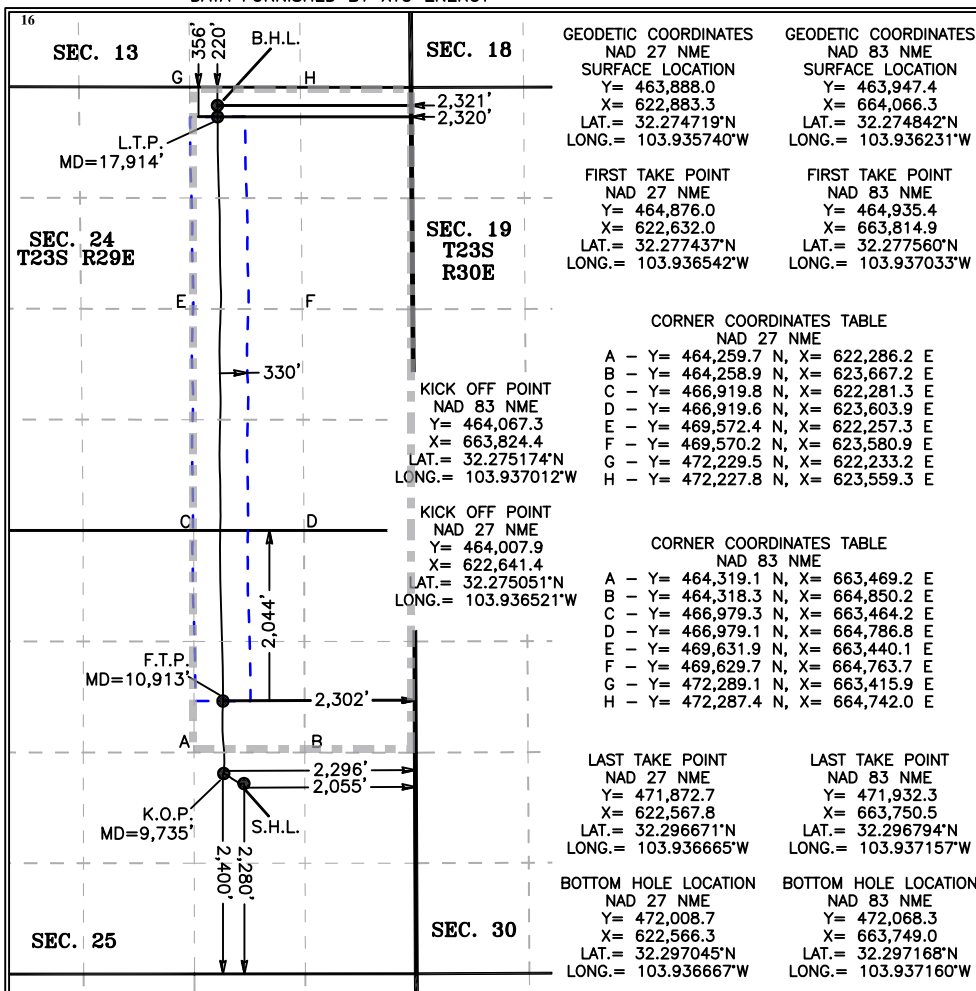
¹¹ Bottom Hole Location If Different From Surface

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		220	NORTH	2,321	EAST	EDDY

¹² Dedicated Acres 480	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



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.

Cheryl Rowell 5/14/20
Signature Date

Cheryl Rowell
Printed Name

cheryl_rowell@xtoenergy.com
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.

5-14-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

Mark Dillon Harp
MARK DILLON HARP 23786
Certificate Number



JC 2019010064

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 #		
Operator Name:	Property Name:	Well Number



November 6, 2019

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

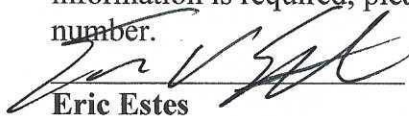
Attn: Colin Gilmore

Re: XTO Energy Inc.
Remuda North 25 State #105H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-44232

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>
A. Tripicchio	Original Hole	120ft. to 18,004ft.	06-01-19 to 07-01-19	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 #105H\M191121

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 June 1, 2019 through July 1, 2019, conduct or supervise the taking of a SEDS MWD Original Hole Survey from a depth of 120feet to a depth of 18,004feet; 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 #105H well, API #**30-015-44232** 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**

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral As Drilled

Local Co-ordinate Reference: Well RN25-105H - Slot RN25 105H 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		07/01/19	
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	
120.00	9,661.00	Survey #1 (105H Lateral)		MWD	
9,722.00	18,004.00	Survey #2 (105H Lateral)		MWD+IFR1+MS	
18,050.00	18,050.00	Survey #3 (105H Lateral)		Projection	

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)
RN25 125H SHL - RN25 105H SHL - RN25 126H SHL - RN25 906H SHL											
	120.00	0.40	281.20	120.00	0.00	0.00	0.00	0.00	0.00	463,888.00	622,883.30
First Stryker Survey											
	230.00	0.80	266.10	229.99	0.10	-1.55	1.56	273.82	0.39	463,888.10	622,881.75
	279.00	0.70	274.30	278.99	0.10	-2.19	2.20	272.69	0.30	463,888.10	622,881.11
	366.00	1.50	273.40	365.97	0.21	-3.86	3.87	273.12	0.92	463,888.21	622,879.44
	440.00	1.50	269.50	439.95	0.26	-5.80	5.80	272.56	0.14	463,888.26	622,877.50
	531.00	1.70	266.30	530.91	0.16	-8.33	8.34	271.11	0.24	463,888.16	622,874.97
	653.00	1.40	264.10	652.87	-0.11	-11.62	11.62	269.47	0.25	463,887.89	622,871.88
	743.00	1.50	269.30	742.84	-0.24	-13.89	13.90	269.03	0.18	463,887.76	622,869.41
	832.00	1.70	263.80	831.80	-0.39	-16.37	16.38	268.63	0.28	463,887.61	622,866.93
	922.00	1.90	262.70	921.76	-0.73	-19.18	19.19	267.83	0.23	463,887.27	622,864.12
	1,012.00	1.80	254.00	1,011.71	-1.31	-22.02	22.05	266.61	0.33	463,886.69	622,861.28
	1,101.00	1.90	255.60	1,100.67	-2.06	-24.79	24.87	265.26	0.13	463,885.94	622,858.51
	1,191.00	1.80	242.70	1,190.62	-3.08	-27.49	27.66	263.61	0.47	463,884.92	622,855.81
	1,281.00	2.20	245.70	1,280.56	-4.44	-30.32	30.64	261.68	0.46	463,883.56	622,852.98
	1,370.00	1.70	251.30	1,369.51	-5.56	-33.13	33.59	260.47	0.60	463,882.44	622,850.17
	1,460.00	1.60	260.90	1,459.47	-6.19	-35.63	36.17	260.15	0.33	463,881.81	622,847.67
	1,550.00	1.70	274.90	1,549.44	-6.27	-38.20	38.72	260.67	0.46	463,881.73	622,845.10
	1,639.00	1.60	292.80	1,638.40	-5.68	-40.66	41.06	262.05	0.59	463,882.32	622,842.64

Survey Report Landscape

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Remuda North 25 State
 Well: RN25-105H
 Wellbore: 105H Lateral
 Design: 105H Lateral As Drilled

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

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00usft (Precision525)
 3059+18 @ 3077.00usft (Precision525)
 Grid
 Minimum Curvature
 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)
	1,729.00	1.50	295.60	1,728.37	-4.68	-42.89	43.14	263.77	0.14	463,883.32	622,840.41
	1,818.00	1.90	291.70	1,817.33	-3.63	-45.31	45.45	265.41	0.47	463,884.37	622,837.99
	1,908.00	2.20	285.50	1,907.27	-2.62	-48.36	48.43	266.90	0.41	463,885.38	622,834.94
	1,997.00	2.20	283.40	1,996.21	-1.77	-51.67	51.70	268.04	0.09	463,886.23	622,831.63
	2,087.00	2.20	281.20	2,086.14	-1.03	-55.04	55.05	268.92	0.09	463,886.97	622,828.26
	2,176.00	2.10	275.70	2,175.08	-0.54	-58.34	58.34	269.47	0.26	463,887.46	622,824.96
	2,266.00	2.00	272.30	2,265.02	-0.31	-61.55	61.55	269.71	0.17	463,887.69	622,821.75
	2,355.00	2.00	266.80	2,353.97	-0.34	-64.65	64.65	269.70	0.22	463,887.66	622,818.65
	2,445.00	0.90	216.20	2,443.94	-1.00	-66.64	66.64	269.14	1.77	463,887.00	622,816.66
	2,535.00	1.70	149.90	2,533.92	-2.72	-66.38	66.44	267.65	1.75	463,885.28	622,816.92
	2,625.00	1.80	172.10	2,623.88	-5.28	-65.52	65.73	265.40	0.76	463,882.72	622,817.78
	2,714.00	2.20	158.00	2,712.82	-8.24	-64.69	65.21	262.74	0.71	463,879.76	622,818.61
	2,804.00	2.80	121.50	2,802.74	-10.99	-62.17	63.13	259.97	1.85	463,877.01	622,821.13
	2,894.00	3.70	121.90	2,892.60	-13.68	-57.83	59.42	256.69	1.00	463,874.32	622,825.47
	2,983.00	3.90	128.30	2,981.40	-17.07	-53.01	55.69	252.15	0.53	463,870.93	622,830.29
	3,019.00	4.30	128.60	3,017.31	-18.67	-51.00	54.31	249.89	1.11	463,869.33	622,832.30
	3,116.00	2.70	125.40	3,114.13	-22.26	-46.29	51.37	244.32	1.66	463,865.74	622,837.01
	3,161.00	2.50	127.50	3,159.08	-23.48	-44.65	50.45	242.27	0.49	463,864.52	622,838.65
	3,251.00	0.80	119.30	3,249.04	-24.98	-42.55	49.34	239.58	1.90	463,863.02	622,840.75
	3,340.00	0.60	56.40	3,338.03	-25.02	-41.62	48.56	238.98	0.84	463,862.98	622,841.68
	3,430.00	0.80	55.00	3,428.03	-24.40	-40.71	47.46	239.06	0.22	463,863.60	622,842.59
	3,519.00	0.60	347.50	3,517.02	-23.59	-40.30	46.70	239.66	0.99	463,864.41	622,843.00
	3,609.00	0.70	343.20	3,607.02	-22.61	-40.56	46.44	240.87	0.12	463,865.39	622,842.74
	3,699.00	0.60	328.80	3,697.01	-21.68	-40.96	46.35	242.11	0.21	463,866.32	622,842.34
	3,788.00	0.60	329.60	3,786.01	-20.88	-41.44	46.40	243.26	0.01	463,867.12	622,841.86
	3,878.00	0.70	333.60	3,876.00	-19.98	-41.92	46.44	244.52	0.12	463,868.02	622,841.38
	3,967.00	0.60	336.70	3,964.99	-19.06	-42.35	46.44	245.77	0.12	463,868.94	622,840.95

Survey Report Landscape

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Site: Remuda North 25 State
 Well: RN25-105H
 Wellbore: 105H Lateral
 Design: 105H Lateral As Drilled

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

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00usft (Precision525)
 3059+18 @ 3077.00usft (Precision525)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100ft)	Northing (usft)	Easting (usft)
	4,057.00	0.60	340.20	4,054.99	-18.19	-42.70	46.41	246.93	0.04	463,889.81	622,840.60
	4,146.00	1.10	316.50	4,143.98	-17.13	-43.44	46.70	248.48	0.68	463,870.87	622,839.86
	4,236.00	1.10	319.00	4,233.96	-15.85	-44.60	47.34	250.44	0.05	463,872.15	622,838.70
	4,325.00	2.50	315.80	4,322.92	-13.81	-46.52	48.53	253.46	1.58	463,874.19	622,836.78
	4,415.00	3.30	318.30	4,412.80	-10.47	-49.61	50.70	258.08	0.90	463,877.53	622,833.69
	4,504.00	3.20	318.60	4,501.66	-6.70	-52.96	53.38	262.79	0.11	463,881.30	622,830.34
	4,594.00	3.10	319.70	4,591.52	-2.95	-56.19	56.27	266.99	0.13	463,885.05	622,827.11
	4,683.00	3.00	318.00	4,680.40	0.61	-59.31	59.31	270.59	0.15	463,888.61	622,823.99
	4,773.00	2.70	312.60	4,770.28	3.80	-62.44	62.56	273.48	0.45	463,891.80	622,820.86
	4,863.00	2.60	316.00	4,860.19	6.70	-65.42	65.76	275.85	0.21	463,894.70	622,817.88
	4,952.00	2.50	308.70	4,949.10	9.37	-68.34	68.98	277.80	0.38	463,897.37	622,814.96
	5,042.00	2.50	312.40	5,039.01	11.92	-71.32	72.31	279.49	0.18	463,899.92	622,811.98
	5,131.00	2.30	311.30	5,127.94	14.40	-74.09	75.48	281.00	0.23	463,902.40	622,809.21
	5,221.00	2.20	312.20	5,217.87	16.76	-76.73	78.54	282.32	0.12	463,904.76	622,806.57
	5,311.00	2.20	310.90	5,307.80	19.05	-79.32	81.57	283.50	0.06	463,907.05	622,803.98
	5,400.00	2.00	308.30	5,396.74	21.13	-81.83	84.51	284.48	0.25	463,909.13	622,801.47
	5,489.00	1.80	306.20	5,485.69	22.92	-84.17	87.24	285.23	0.24	463,910.92	622,799.13
	5,579.00	1.70	307.30	5,575.65	24.56	-86.38	89.80	285.87	0.12	463,912.56	622,796.92
	5,669.00	2.30	300.90	5,665.59	26.30	-88.99	92.79	286.46	0.71	463,914.30	622,794.31
	5,758.00	1.90	304.40	5,754.53	28.05	-91.74	95.93	287.00	0.47	463,916.05	622,791.56
	5,848.00	2.40	299.90	5,844.47	29.83	-94.60	99.19	287.50	0.59	463,917.83	622,788.70
	5,938.00	2.20	295.10	5,934.40	31.50	-97.80	102.75	287.85	0.31	463,919.50	622,785.50
	6,027.00	2.30	293.90	6,023.33	32.95	-100.98	106.22	288.07	0.12	463,920.95	622,782.32
	6,117.00	2.90	300.80	6,113.24	34.85	-104.59	110.24	288.43	0.75	463,922.85	622,778.71
	6,207.00	2.90	301.60	6,203.12	37.21	-108.48	114.68	288.93	0.04	463,925.21	622,774.82
	6,296.00	2.80	299.20	6,292.01	39.45	-112.30	119.02	289.35	0.17	463,927.45	622,771.00
	6,386.00	2.80	294.90	6,381.90	41.44	-116.21	123.38	289.63	0.23	463,929.44	622,767.09

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral AsDrilled

Local Co-ordinate Reference:
TVD Reference:
MID Reference:
North Reference:
Survey Calculation Method:
Database:

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00usft (Precision525)
 3059+18 @ 3077.00usft (Precision525)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MID (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	2.80	309.60	6,471.80	43.77	-119.90	127.64	290.06	0.80	463,931.77	622,763.40
	6,565.00	2.70	306.90	6,560.70	46.42	-123.25	131.70	290.64	0.18	463,934.42	622,760.05
	6,648.00	2.60	305.80	6,643.61	48.69	-126.34	135.40	291.08	0.14	463,936.69	622,756.96
	6,794.00	2.60	299.60	6,789.46	52.26	-131.90	141.88	291.61	0.19	463,940.26	622,751.40
	6,827.00	2.40	298.70	6,822.43	52.96	-133.16	143.31	291.69	0.62	463,940.96	622,750.14
	6,917.00	2.60	296.10	6,912.34	54.77	-136.65	147.21	291.84	0.26	463,942.77	622,746.65
	7,007.00	2.20	289.40	7,002.26	56.24	-140.11	150.97	291.87	0.54	463,944.24	622,743.19
	7,097.00	2.60	317.60	7,092.18	58.32	-143.11	154.54	292.17	1.37	463,946.32	622,740.19
	7,186.00	2.60	320.10	7,181.09	61.36	-145.77	158.16	292.83	0.13	463,949.36	622,737.53
	7,276.00	2.30	309.60	7,271.01	64.08	-148.47	161.71	293.34	0.60	463,952.08	622,734.83
	7,365.00	2.20	287.80	7,359.94	65.74	-151.47	165.12	293.46	0.96	463,953.74	622,731.83
	7,455.00	2.40	305.80	7,449.87	67.37	-154.65	168.68	293.54	0.83	463,955.37	622,728.65
	7,484.00	2.40	305.60	7,478.85	68.08	-155.63	169.87	293.63	0.03	463,956.08	622,727.67
	7,580.00	2.30	301.10	7,574.77	70.24	-158.92	173.75	293.85	0.22	463,958.24	622,724.38
	7,669.00	2.20	309.00	7,663.70	72.24	-161.77	177.17	294.06	0.37	463,960.24	622,721.53
	7,759.00	2.30	321.90	7,753.63	74.75	-164.23	180.44	294.47	0.57	463,962.75	622,719.07
	7,848.00	2.40	314.50	7,842.55	77.46	-166.66	183.78	294.93	0.36	463,965.46	622,716.84
	7,938.00	2.20	310.00	7,932.48	79.89	-169.33	187.23	295.26	0.30	463,967.89	622,713.97
	8,028.00	1.80	313.80	8,022.43	81.98	-171.67	190.24	295.53	0.47	463,969.98	622,711.63
	8,118.00	2.80	290.80	8,112.36	83.74	-174.75	193.78	295.60	1.49	463,971.74	622,708.55
	8,207.00	2.90	290.20	8,201.25	85.29	-178.89	198.18	295.49	0.12	463,973.29	622,704.41
	8,297.00	2.80	311.60	8,291.14	87.53	-182.67	202.66	295.60	1.18	463,975.53	622,700.63
	8,386.00	2.50	319.20	8,380.04	90.45	-185.57	206.44	295.98	0.52	463,978.45	622,697.73
	8,476.00	2.20	304.00	8,469.97	92.90	-188.28	209.95	296.26	0.77	463,980.90	622,695.02
	8,566.00	1.50	305.40	8,559.92	94.55	-190.68	212.83	296.37	0.78	463,982.55	622,692.62
	8,655.00	2.90	299.70	8,648.85	96.34	-193.58	216.23	296.46	1.59	463,984.34	622,689.72
	8,745.00	2.10	284.40	8,738.77	97.87	-197.16	220.11	296.40	1.15	463,985.87	622,686.14

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NIMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral AsDrilled

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

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00usft (Precision525)
 3059+18 @ 3077.00usft (Precision525)
 Grid
 Minimum Curvature
 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)
	8,834.00	3.00	294.20	8,827.68	99.23	-200.86	224.04	296.29	1.12	463,987.23	622,682.44
	8,924.00	3.50	312.00	8,917.53	102.04	-205.05	229.03	296.46	1.24	463,990.04	622,678.25
	9,013.00	3.00	305.20	9,006.39	105.20	-208.97	233.96	296.72	0.71	463,993.20	622,674.33
	9,103.00	2.70	295.30	9,096.28	107.46	-212.81	238.41	296.79	0.64	463,995.46	622,670.49
	9,193.00	2.40	286.60	9,186.19	108.91	-216.53	242.38	296.70	0.54	463,996.91	622,666.77
	9,282.00	3.10	299.20	9,275.09	110.61	-220.42	246.62	296.65	1.03	463,998.61	622,662.88
	9,372.00	2.90	281.90	9,364.97	112.27	-224.77	251.25	296.54	1.03	464,000.27	622,658.53
	9,461.00	3.30	293.70	9,453.84	113.76	-229.32	255.99	296.39	0.84	464,001.76	622,653.98
	9,551.00	2.90	290.10	9,543.71	115.59	-233.83	260.84	296.30	0.49	464,003.59	622,649.47
	9,641.00	2.90	286.00	9,633.59	117.00	-238.16	265.34	296.16	0.23	464,005.00	622,645.14
	9,681.00	2.80	285.80	9,673.54	117.54	-240.07	267.30	296.09	0.25	464,005.54	622,643.23
	9,767.00	4.47	344.39	9,759.39	121.34	-242.99	271.61	296.54	4.47	464,009.34	622,640.31
	9,811.00	10.84	3.30	9,802.98	127.13	-243.22	274.44	297.60	15.38	464,015.13	622,640.08
	9,856.00	16.80	7.98	9,846.66	137.81	-242.07	278.55	299.65	13.46	464,025.81	622,641.23
	9,901.00	23.22	5.97	9,888.92	153.09	-240.24	284.87	302.51	14.35	464,041.09	622,643.06
	9,946.00	28.96	3.87	9,929.32	172.80	-238.58	294.59	305.91	12.92	464,060.80	622,644.72
	9,991.00	33.48	2.17	9,967.80	196.08	-237.38	307.89	309.56	10.23	464,084.08	622,645.92
	10,036.00	37.88	1.41	10,004.34	222.31	-236.57	324.63	313.22	9.83	464,110.31	622,646.73
	10,080.00	40.80	2.22	10,038.37	250.18	-235.68	343.71	316.71	6.74	464,138.18	622,647.62
	10,125.00	43.72	2.59	10,071.67	280.41	-234.41	365.48	320.11	6.51	464,168.41	622,648.89
	10,170.00	44.61	0.19	10,103.95	311.75	-233.65	389.59	323.15	4.21	464,199.75	622,649.65
	10,215.00	46.03	356.09	10,135.60	343.72	-234.70	416.21	325.67	7.20	464,231.72	622,648.60
	10,252.00	50.02	354.77	10,160.34	371.13	-236.90	440.30	327.45	11.09	464,259.13	622,646.40
Wellpath Crosses Unit Line @ Heel											
	10,260.00	50.88	354.51	10,165.43	377.27	-237.48	445.79	327.81	11.09	464,265.27	622,645.82
	10,305.00	56.07	356.06	10,192.21	413.30	-240.43	478.15	329.81	11.86	464,301.30	622,642.87

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral As Drilled

Local Co-ordinate Reference: Well RN25-105H - Slot RN25 105H 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

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100ft)	Northing (usft)	Easting (usft)
10,349.00	57.52	354.63	10,216.31	449.99	-243.43	511.61	331.59	4.27	464,337.99	622,639.87
RN25 906H FTP_100FSL_79FEL										
10,394.00	61.23	354.97	10,239.23	488.55	-246.93	547.41	333.19	8.27	464,376.55	622,636.37
10,440.00	64.30	355.69	10,260.27	529.31	-250.26	585.49	334.70	6.82	464,417.31	622,633.04
10,484.00	66.76	356.79	10,278.50	569.26	-252.88	622.90	336.05	6.04	464,457.26	622,630.42
10,529.00	69.07	357.24	10,295.42	610.90	-255.05	662.01	337.34	5.22	464,498.90	622,628.25
10,573.00	71.57	358.22	10,310.23	652.30	-256.69	700.98	338.52	6.06	464,540.30	622,626.61
10,618.00	75.38	358.97	10,323.03	695.42	-257.74	741.64	339.66	8.62	464,583.42	622,625.56
10,624.00	75.81	359.09	10,324.52	701.23	-257.84	747.13	339.81	7.48	464,589.23	622,625.46
Wellpath Crosses FTP										
10,634.33	76.56	359.28	10,326.99	711.25	-257.98	756.60	340.06	7.48	464,599.25	622,625.32
RN25 105H FTP_330FSL_339FWL										
10,663.00	78.64	359.83	10,333.15	739.26	-258.20	783.05	340.75	7.48	464,627.26	622,625.10
10,680.45	79.66	0.52	10,336.43	756.39	-258.15	799.23	341.16	7.04	464,644.39	622,625.15
RN25 125H FTP_330FSL_669FWL										
10,688.12	80.11	0.83	10,337.78	763.95	-258.06	806.35	341.34	7.04	464,651.95	622,625.24
RN25 126H FTP_330FSL_153FEL										
10,706.00	81.28	1.61	10,340.99	783.56	-257.64	824.83	341.80	7.04	464,671.56	622,625.66
10,753.00	84.10	2.33	10,346.72	828.16	-256.11	866.86	342.82	6.46	464,716.16	622,627.19
10,798.00	88.94	3.06	10,349.45	873.01	-253.99	909.21	343.78	10.88	464,761.01	622,629.31
10,887.00	90.50	0.22	10,349.88	961.97	-251.45	994.28	345.35	3.64	464,849.97	622,631.85
10,977.00	90.70	0.20	10,348.94	1,051.96	-251.12	1,081.52	346.57	0.22	464,939.96	622,632.18
11,066.00	91.68	359.18	10,347.09	1,140.94	-251.60	1,168.35	347.56	1.59	465,028.94	622,631.70
11,156.00	90.39	359.16	10,345.46	1,230.91	-252.90	1,256.62	348.39	1.43	465,118.91	622,630.40
11,246.00	90.42	359.52	10,344.83	1,320.90	-253.94	1,345.09	349.12	0.40	465,208.90	622,629.36
11,335.00	90.75	359.18	10,343.92	1,409.89	-254.95	1,432.76	349.75	0.53	465,297.89	622,628.35
11,425.00	91.81	359.25	10,341.91	1,499.86	-256.18	1,521.58	350.31	1.18	465,387.86	622,627.12
11,515.00	90.14	358.48	10,340.38	1,589.83	-257.96	1,610.62	350.78	2.04	465,477.83	622,625.34

Survey Report Landscape

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NIMEZ Grid
 Site: Remuda North 25 State
 Well: RN25-105H
 Wellbore: 105H Lateral
 Design: 105H Lateral As Drilled

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

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00usft (Precision525)
 3059+18 @ 3077.00usft (Precision525)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100ft)	Northing (usft)	Easting (usft)
	11,604.00	90.48	358.48	10,339.90	1,678.79	-260.32	1,698.86	351.19	0.38	465,566.79	622,622.98
	11,694.00	90.84	358.29	10,338.86	1,768.75	-262.86	1,788.18	351.55	0.45	465,656.75	622,620.44
	11,784.00	88.91	358.31	10,339.06	1,858.71	-265.53	1,877.58	351.87	2.14	465,746.71	622,617.77
	11,874.00	89.05	358.17	10,340.66	1,948.65	-268.29	1,967.03	352.16	0.22	465,836.65	622,615.01
	11,963.00	89.47	357.72	10,341.81	2,037.58	-271.48	2,055.59	352.41	0.69	465,925.58	622,611.82
	12,053.00	89.64	357.30	10,342.51	2,127.50	-275.39	2,145.25	352.62	0.50	466,015.50	622,607.91
	12,143.00	90.14	357.10	10,342.68	2,217.39	-279.79	2,234.97	352.81	0.60	466,105.39	622,603.51
	12,232.00	89.02	358.42	10,343.33	2,306.31	-283.27	2,323.65	353.00	1.95	466,194.31	622,600.03
	12,322.00	89.27	0.81	10,344.67	2,396.30	-283.87	2,413.05	353.24	2.87	466,284.30	622,599.43
	12,412.00	89.55	0.46	10,345.60	2,486.29	-282.88	2,502.33	353.51	0.50	466,374.29	622,600.42
	12,501.00	89.33	359.39	10,346.47	2,575.28	-282.99	2,590.78	353.73	1.23	466,463.28	622,600.31
	12,591.00	89.47	358.70	10,347.41	2,665.26	-284.49	2,680.40	353.91	0.78	466,553.26	622,598.81
	12,681.00	89.66	357.90	10,348.10	2,755.22	-287.16	2,770.14	354.05	0.91	466,643.22	622,596.14
	12,770.00	90.56	1.48	10,347.93	2,844.20	-287.64	2,858.71	354.23	4.15	466,732.20	622,595.66
	12,860.00	92.38	2.50	10,345.62	2,934.11	-284.52	2,947.88	354.46	2.32	466,822.11	622,598.78
	12,950.00	91.54	0.73	10,342.54	3,024.02	-281.99	3,037.14	354.67	2.18	466,912.02	622,601.31
	13,040.00	91.57	0.88	10,340.10	3,113.98	-280.72	3,126.61	354.85	0.17	467,001.98	622,602.58
	13,129.00	91.12	359.92	10,338.01	3,202.95	-280.10	3,215.17	355.00	1.19	467,090.95	622,603.20
	13,219.00	91.15	359.11	10,336.23	3,292.93	-280.86	3,304.89	355.12	0.90	467,180.93	622,602.44
	13,309.00	88.77	359.67	10,336.29	3,382.92	-281.82	3,394.64	355.24	2.72	467,270.92	622,601.48
	13,398.00	89.05	359.60	10,337.98	3,471.90	-282.39	3,483.36	355.35	0.32	467,359.90	622,600.91
	13,488.00	89.64	359.54	10,339.01	3,561.89	-283.06	3,573.12	355.46	0.66	467,449.89	622,600.24
	13,578.00	89.61	358.60	10,339.60	3,651.88	-284.52	3,662.94	355.54	1.04	467,539.88	622,598.78
	13,649.00	89.89	358.11	10,339.91	3,722.85	-286.56	3,733.86	355.60	0.79	467,610.85	622,596.74
	13,739.00	89.22	357.35	10,340.61	3,812.77	-290.13	3,823.79	355.65	1.13	467,700.77	622,593.17
	13,828.00	90.90	359.52	10,340.51	3,901.73	-292.56	3,912.68	355.71	3.08	467,789.73	622,590.74
	13,918.00	90.64	0.08	10,339.31	3,991.72	-292.87	4,002.45	355.80	0.69	467,879.72	622,590.43

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral AsDrilled

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

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00usft (Precision625)
 3059+18 @ 3077.00usft (Precision625)
 Grid
 Minimum Curvature
 STRYKER_EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
14,008.00	90.45	1.51	10,338.45	4,081.70	-291.62	4,092.11	355.91	1.60	467,969.70	622,591.68
14,098.00	89.69	1.24	10,338.34	4,171.68	-289.46	4,181.71	356.03	0.90	468,059.68	622,593.84
14,187.00	88.63	1.23	10,339.64	4,260.65	-287.55	4,270.34	356.14	1.19	468,148.65	622,595.75
14,277.00	89.94	3.21	10,340.77	4,350.57	-284.06	4,359.83	356.26	2.64	468,238.57	622,599.24
14,367.00	90.25	1.06	10,340.62	4,440.50	-280.71	4,449.36	356.38	2.41	468,328.50	622,602.59
14,457.00	91.12	0.60	10,339.54	4,530.48	-279.40	4,539.09	356.47	1.09	468,418.48	622,603.90
14,546.00	90.73	0.65	10,338.10	4,619.46	-278.43	4,627.85	356.55	0.44	468,507.46	622,604.87
14,636.00	89.86	358.24	10,337.64	4,709.45	-279.30	4,717.73	356.61	2.85	468,597.45	622,604.00
14,726.00	90.48	356.30	10,337.37	4,799.34	-283.59	4,807.71	356.62	2.26	468,687.34	622,599.71
14,815.00	90.39	357.40	10,336.70	4,888.20	-288.48	4,896.71	356.62	1.24	468,776.20	622,594.82
14,905.00	91.74	359.18	10,335.03	4,978.14	-291.17	4,986.65	356.65	2.48	468,866.14	622,592.13
14,995.00	91.32	358.89	10,332.62	5,068.10	-292.68	5,076.54	356.69	0.57	468,956.10	622,590.62
15,084.00	94.23	359.87	10,328.31	5,156.98	-293.64	5,165.33	356.74	3.45	469,044.98	622,589.66
15,174.00	94.46	1.84	10,321.50	5,246.70	-292.31	5,254.84	356.81	2.20	469,134.70	622,590.99
15,264.00	93.17	1.87	10,315.51	5,336.46	-289.40	5,344.30	356.90	1.43	469,224.46	622,593.90
15,353.00	92.86	1.67	10,310.83	5,425.29	-286.65	5,432.86	356.98	0.41	469,313.29	622,596.65
15,443.00	92.19	1.58	10,306.86	5,515.17	-284.10	5,522.48	357.05	0.75	469,403.17	622,599.20
15,533.00	92.55	1.94	10,303.14	5,605.05	-281.34	5,612.10	357.13	0.57	469,493.05	622,601.96
15,623.00	88.99	4.14	10,301.93	5,694.89	-276.57	5,701.60	357.22	4.65	469,582.89	622,606.73
15,712.00	88.40	0.25	10,303.96	5,783.79	-273.16	5,790.23	357.30	4.42	469,671.79	622,610.14
15,802.00	89.27	358.69	10,305.79	5,873.76	-273.99	5,880.15	357.33	1.98	469,761.76	622,609.31
15,892.00	89.10	358.12	10,307.07	5,963.72	-276.50	5,970.12	357.35	0.66	469,851.72	622,606.80
15,981.00	88.96	358.25	10,308.57	6,052.66	-279.32	6,059.10	357.36	0.21	469,940.66	622,603.98
16,071.00	89.13	357.79	10,310.07	6,142.59	-282.43	6,149.08	357.37	0.54	470,030.59	622,600.87
16,161.00	89.02	357.48	10,311.53	6,232.50	-286.14	6,239.07	357.37	0.37	470,120.50	622,597.16
16,250.00	89.19	358.64	10,312.92	6,321.44	-289.15	6,328.05	357.38	1.32	470,209.44	622,594.15
16,340.00	90.48	0.58	10,313.18	6,411.43	-289.77	6,417.98	357.41	2.59	470,299.43	622,593.53

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral As Drilled

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

Well RN25-105H - Slot RN25 105H SHL
 3059+18 @ 3077.00ustf (Precision525)
 3059+18 @ 3077.00ustf (Precision525)
 Grid
 Minimum Curvature
 STRYKER_EDM

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	Closure Distance (ustf)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (ustf)	Easting (ustf)
	16,430.00	90.92	0.95	10,312.08	6,501.42	-288.56	6,507.82	357.46	0.64	470,389.42	622,594.74
	16,519.00	91.65	0.29	10,310.08	6,590.39	-287.60	6,596.66	357.50	1.11	470,478.39	622,595.70
	16,609.00	91.82	0.04	10,307.36	6,680.35	-287.34	6,686.52	357.54	0.34	470,568.35	622,595.96
	16,698.00	90.00	358.77	10,305.94	6,769.32	-288.27	6,775.46	357.56	2.49	470,657.32	622,595.03
	16,788.00	89.24	358.29	10,306.54	6,859.29	-290.57	6,865.44	357.57	1.00	470,747.29	622,592.73
	16,878.00	89.61	357.73	10,307.44	6,949.23	-293.70	6,955.44	357.58	0.75	470,837.23	622,589.60
	16,967.00	89.27	357.48	10,308.31	7,038.15	-297.42	7,044.43	357.58	0.47	470,926.15	622,585.88
	17,057.00	89.50	358.38	10,309.28	7,128.09	-300.67	7,134.42	357.58	1.03	471,016.09	622,582.63
	17,109.00	88.54	357.48	10,310.17	7,180.04	-302.55	7,186.41	357.59	2.53	471,088.04	622,580.75
	17,199.00	89.61	357.30	10,311.62	7,269.94	-306.65	7,276.40	357.58	1.21	471,157.94	622,576.65
	17,288.00	89.64	358.08	10,312.20	7,358.86	-310.23	7,365.40	357.59	0.98	471,246.86	622,573.07
	17,378.00	90.67	359.49	10,311.96	7,448.84	-312.14	7,455.37	357.60	1.94	471,336.84	622,571.16
	17,467.00	90.67	359.95	10,310.92	7,537.83	-312.58	7,544.31	357.63	0.52	471,425.83	622,570.72
	17,557.00	91.18	359.93	10,309.47	7,627.82	-312.67	7,634.22	357.65	0.57	471,515.82	622,570.63
	17,647.00	90.98	359.54	10,307.77	7,717.80	-313.09	7,724.15	357.68	0.49	471,605.80	622,570.21
	17,736.00	91.51	359.79	10,305.84	7,806.78	-313.61	7,813.07	357.70	0.66	471,694.78	622,569.69
	17,826.00	90.76	359.14	10,304.05	7,896.76	-314.45	7,903.01	357.72	1.10	471,784.76	622,568.85
	17,915.00	91.06	359.48	10,302.64	7,985.74	-315.52	7,991.97	357.74	0.51	471,873.74	622,567.78
	17,925.09	91.16	359.46	10,302.44	7,995.82	-315.61	8,002.05	357.74	1.02	471,883.82	622,567.69
	RN25 126H LTP_330FNL_104FEL 17,930.42	91.22	359.46	10,302.33	8,001.15	-315.66	8,007.37	357.74	1.02	471,889.15	622,567.64
	RN25 125H LTP_330FNL_654FEL 17,938.49	91.30	359.44	10,302.16	8,009.22	-315.74	8,015.44	357.74	1.02	471,897.22	622,567.56
	RN25 105H LTP_330FNL_341FWL 17,940.00	91.31	359.44	10,302.12	8,010.73	-315.75	8,016.95	357.74	1.02	471,898.73	622,567.55
	Wellpath Crosses LTP 18,004.00	91.96	359.34	10,300.29	8,074.70	-316.43	8,080.90	357.76	1.02	471,962.70	622,566.87

Survey Report Landscape

Company: XTO Energy
Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Remuda North 25 State
Well: RN25-105H
Wellbore: 105H Lateral
Design: 105H Lateral AsDrilled

Local Co-ordinate Reference: Well RN25-105H - Slot RN25 105H 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)
18,048.83	91.96	359.34	10,298.76	8,119.50	-316.95	8,125.69	357.76	0.00	472,007.50	622,566.35
RN25 126H PBHL_200FNL_104FEL										
18,050.00	91.96	359.34	10,298.72	8,120.67	-316.96	8,126.85	357.76	0.00	472,008.67	622,566.34
TD @ 220FNL, 331FWL - RN25 125H PBHL_200FNL_654FEL - RN25 105H PBHL_200FNL_342FWL p2 - RN25 105H BHL - RN25 105H PBHL_200FNL_342FWL										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.08	-0.41	First Stryker Survey
10,252.00	10,160.34	371.13	-236.90	Wellpath Crosses Unit Line @ Heel
10,824.00	10,324.52	701.23	-257.84	Wellpath Crosses FTP
17,940.00	10,302.12	8,010.73	-315.75	Wellpath Crosses LTP
18,050.00	10,298.72	8,120.67	-316.96	TD @ 220FNL, 331FWL

Checked By: _____

Approved By: _____

Date: _____