

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

NMOCD-REC'D: 8/28/2020 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 30-015-44392	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (GAS)
⁴ Property Code 317788	⁵ Property Name REMUDA SOUTH 25 STATE	⁶ Well Number 126H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,061'

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
G	25	23 S	29 E		22802.279	NORTH	1,965	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
P	36	23 S	29 E		208	SOUTH	1,303	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

	16 SEC. 25 SEC. 30 SEC. 36 T23S R29E SEC. 31 T23S R30E SEC. 1 T24S R29E SEC. 6 T24S R30E	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 464,640.3 X= 622,970.2 LAT.= 32.276786°N LONG.= 103.935450°W FIRST TAKE POINT NAD 27 NME Y= 463,685.1 X= 623,657.9 LAT.= 32.274153°N LONG.= 103.933236°W KICK OFF POINT NAD 83 NME Y= 464,767.7 X= 664,526.5 LAT.= 32.277092°N LONG.= 103.934732°W LAST TAKE POINT NAD 27 NME Y= 456,635.0 X= 623,674.4 LAT.= 32.254773°N LONG.= 103.933268°W BOTTOM HOLE LOCATION NAD 27 NME Y= 456,499.2 X= 623,667.5 LAT.= 32.254400°N LONG.= 103.933292°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 464,699.7 X= 664,153.2 LAT.= 32.276909°N LONG.= 103.935941°W FIRST TAKE POINT NAD 83 NME Y= 463,744.5 X= 664,840.9 LAT.= 32.274276°N LONG.= 103.933727°W KICK OFF POINT NAD 83 NME Y= 464,708.3 X= 623,343.6 LAT.= 32.276969°N LONG.= 103.934241°W LAST TAKE POINT NAD 83 NME Y= 456,694.2 X= 664,850.7 LAT.= 32.254896°N LONG.= 103.933758°W BOTTOM HOLE LOCATION NAD 83 NME Y= 456,558.4 X= 664,850.7 LAT.= 32.254523°N LONG.= 103.933782°W	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Melanie Collins</i> 8-7-2020 Signature Date Melanie Collins Printed Name melanie_collins@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. 7-24-2020 Date of Survey Signature and Seal of Professional Surveyor: <i>Mark Dillon Harp</i> MARK DILLON HARP 23786 Certificate Number JC/AI 2019010053
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JAG 10/14/2020

Intent ☐ As Drilled ☒

API # 30-015-44392			
Operator Name: XTO Energy, Inc.		Property Name: Remuda South 25 State	Well Number 126H

Kick Off Point (KOP)

UL G	Section 25	Township 23S	Range 29E	Lot	Feet 2211	From N/S North	Feet 1591	From E/W East	County Eddy
Latitude 32.276969					Longitude 103.934241				NAD 83

First Take Point (FTP)

UL I	Section 25	Township 23S	Range 29E	Lot	Feet 2076	From N/S South	Feet 1281	From E/W East	County Eddy
Latitude 32.274276					Longitude 103.933727				NAD 83

Last Take Point (LTP)

UL P	Section 36	Township 23S	Range 29E	Lot	Feet 344	From N/S South	Feet 1296	From E/W East	County Eddy
Latitude 32.254896					Longitude 103.933758				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ No

Is this well an infill well? ☐ Yes

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

API # 30-015-44391			
Operator Name: XTO Energy, Inc.		Property Name: Remuda South 25 State	Well Number 166H

KZ 06/29/2018



True Performance
Directional Drilling
5075 E 52nd Street
Odessa, TX 79762
(281)-222-8366

To: New Mexico Energy, Minerals and
Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505 (505) 476-3220

Re: Certified Survey Report / **REMUDA SOUTH 25 STATE 126H / 30-015-44392**

Via: Electronic Filing

True Performance Directional Drilling, respectfully submits for filing the required directional certified survey performed on the referenced well by True Performance Directional Drilling. Other information required by your office is as follows:

<u>Name & Title of Supervisor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Greg Wilkie MWD Coordinator	100' to 18598'	10-17-19 to 11-21-19	MWD

The directional MWD surveys performed by True Performance Directional Drilling are attached. A copy of the certified plat on which the final survey is drawn and the projected bottom-hole location is marked and identified is also attached.

Please file this certified survey report. If there are any questions or additional data required, please let me know at your earliest opportunity.

Thank You

Sincerely,

A handwritten signature in black ink, appearing to read 'Greg Wilkie'.

Greg Wilkie
MWD Operations Manager

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

Site: Remuda South 25 State Pad

Well: RS25-126H

Wellbore: 126H Lateral

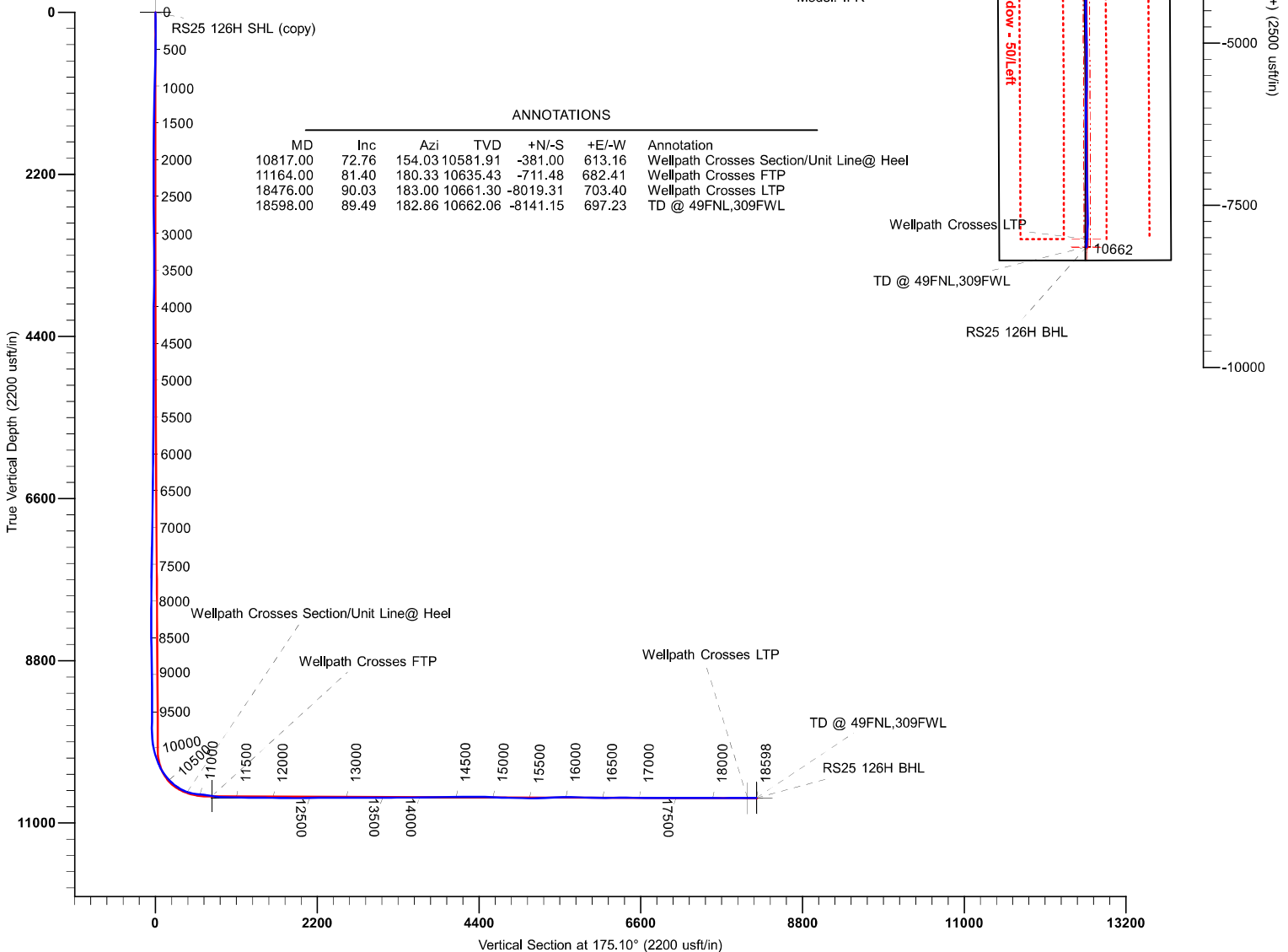
Design: 126H Lateral AsDrilled 3061+22 @ 3083.00usft (Perseus)
NAD 1927 (NADCON CONUS)

To convert a Magnetic Direction to a Grid Direction, Add 6.61°



Azimuths to Grid North
True North: -0.21°
Magnetic North: 6.61°

Magnetic Field
Strength: 47821.0nT
Dip Angle: 59.99°
Date: 09/11/2019
Model: IFR



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
10817.00	72.76	154.03	10581.91	-381.00	613.16	Wellpath Crosses Section/Unit Line@ Heel
11164.00	81.40	180.33	10635.43	-711.48	682.41	Wellpath Crosses FTP
18476.00	90.03	183.00	10661.30	-8019.31	703.40	Wellpath Crosses LTP
18598.00	89.49	182.86	10662.06	-8141.15	697.23	TD @ 49FNL,309FWL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
RS25 126H SHL (copy)	0.00	0.00	0.00	464639.37	622968.95	Point
RS25 126H FTP_329FNL_14FEL (copy)	10640.00	-711.30	677.50	463928.07	623646.45	Point
RS25 126H BHL	10662.06	-8141.15	697.23	456498.22	623666.18	Point
RS25 126H LTP_330FSL_36FWL (copy)	10666.00	-8019.38	710.00	456619.99	623678.95	Point
RS25 126H PBHL_200FSL_36FWL (copy)	10666.00	-8149.38	710.60	456489.99	623679.55	Rectangle (Sides: L7440.00 W100.00)

Design: 126H Lateral AsDrilled (RS25-126H/126H Lateral)

Created By: Mekka Williams

eSovina Well Design

mekka@esominawell.com

13:48, November 25 2019

TRUE PERFORMANCE DIRECTIONAL DRILLING

5075 E 52nd Street, Odessa, Texas 79762

281.222.8366



Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Project	Eddy County, NM (NAD27) NMEZ Grid		
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 South 25 State Pad		
Site Position:		Northing:	464,640.40 usft
From:	Map	Easting:	622,880.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 16' 36.434 N
		Longitude:	103° 56' 8.666 W
		Grid Convergence:	0.21 °

Well	RS25-126H		
Well Position	+N/-S	0.00 usft	Northing: 464,639.37 usft
	+E/-W	0.00 usft	Easting: 622,968.96 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 36.421 N
		Longitude:	103° 56' 7.635 W
		Ground Level:	3,061.00 usft

Wellbore	126H Lateral		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IFR	09/11/19	6.82
			Dip Angle
			(°)
			59.99
			Field Strength
			(nT)
			47,821

Design	126H Lateral AsDrilled		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			175.10

Survey Program	Date	11/25/19		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.00	9,350.00	Survey #2 (126H Lateral)	Gyrodata New 2-16-16	Gyrodata Stationary Tool drop on BHA
9,485.00	18,545.00	Survey #3 (126H Lateral)	MWD	OWSG MWD - Standard
18,598.00	18,598.00	Survey #4 (126H Lateral)	Projection	Projection

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RS25 126H SHL (copy)									
100.00	0.75	185.01	100.00	-0.65	-0.06	0.64	0.75	0.75	0.00
200.00	0.61	176.43	199.99	-1.84	-0.08	1.82	0.17	-0.14	-8.58
300.00	0.38	286.74	299.99	-2.27	-0.37	2.23	0.82	-0.23	110.31
400.00	0.80	315.44	399.98	-1.68	-1.17	1.57	0.50	0.42	28.70
500.00	0.95	353.81	499.97	-0.36	-1.75	0.21	0.59	0.15	38.37
600.00	1.25	20.91	599.95	1.49	-1.45	-1.61	0.59	0.30	27.10
700.00	1.70	32.78	699.92	3.75	-0.26	-3.76	0.54	0.45	11.87

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
800.00	2.02	35.12	799.87	6.44	1.56	-6.28	0.33	0.32	2.34	
900.00	2.04	39.84	899.81	9.25	3.71	-8.90	0.17	0.02	4.72	
1,000.00	2.07	38.45	999.74	12.03	5.97	-11.48	0.06	0.03	-1.39	
1,100.00	2.27	40.47	1,099.67	14.95	8.38	-14.18	0.21	0.20	2.02	
1,200.00	2.32	58.72	1,199.59	17.51	11.40	-16.47	0.73	0.05	18.25	
1,300.00	2.18	68.63	1,299.51	19.25	14.90	-17.91	0.41	-0.14	9.91	
1,400.00	2.48	70.51	1,399.43	20.67	18.71	-19.00	0.31	0.30	1.88	
1,500.00	2.57	75.05	1,499.33	21.97	22.92	-19.93	0.22	0.09	4.54	
1,600.00	2.65	67.14	1,599.23	23.44	27.21	-21.04	0.37	0.08	-7.91	
1,700.00	2.83	74.35	1,699.12	25.01	31.72	-22.21	0.39	0.18	7.21	
1,800.00	2.96	75.14	1,798.99	26.34	36.59	-23.12	0.14	0.13	0.79	
1,900.00	2.73	72.97	1,898.87	27.70	41.36	-24.07	0.25	-0.23	-2.17	
2,000.00	2.55	78.69	1,998.76	28.83	45.82	-24.81	0.32	-0.18	5.72	
2,100.00	3.04	80.34	2,098.64	29.71	50.62	-25.28	0.50	0.49	1.65	
2,200.00	2.98	77.79	2,198.50	30.71	55.77	-25.83	0.15	-0.06	-2.55	
2,300.00	2.97	85.52	2,298.37	31.46	60.90	-26.15	0.40	-0.01	7.73	
2,400.00	2.96	88.10	2,398.23	31.75	66.06	-25.99	0.13	-0.01	2.58	
2,500.00	3.03	90.08	2,498.10	31.83	71.28	-25.63	0.12	0.07	1.98	
2,600.00	3.41	96.56	2,597.94	31.48	76.88	-24.81	0.53	0.38	6.48	
2,700.00	3.18	97.58	2,697.77	30.78	82.58	-23.62	0.24	-0.23	1.02	
2,800.00	2.64	93.51	2,797.65	30.27	87.63	-22.68	0.58	-0.54	-4.07	
2,900.00	2.72	94.20	2,897.54	29.96	92.30	-21.97	0.09	0.08	0.69	
3,000.00	3.18	106.13	2,997.40	29.01	97.33	-20.60	0.76	0.46	11.93	
3,100.00	3.54	109.73	3,097.23	27.20	102.90	-18.32	0.42	0.36	3.60	
3,200.00	3.28	105.18	3,197.06	25.41	108.57	-16.05	0.38	-0.26	-4.55	
3,300.00	2.71	89.86	3,296.92	24.67	113.69	-14.87	0.98	-0.57	-15.32	
3,400.00	2.59	71.19	3,396.81	25.40	118.19	-15.22	0.87	-0.12	-18.67	
3,500.00	2.86	66.43	3,496.70	27.13	122.62	-16.56	0.35	0.27	-4.76	
3,600.00	2.92	62.77	3,596.57	29.29	127.17	-18.33	0.19	0.06	-3.66	
3,700.00	3.30	67.51	3,696.43	31.56	132.10	-20.17	0.46	0.38	4.74	
3,800.00	3.23	70.50	3,796.26	33.60	137.41	-21.75	0.18	-0.07	2.99	
3,900.00	3.10	71.07	3,896.11	35.41	142.62	-23.12	0.13	-0.13	0.57	
4,000.00	3.65	70.72	3,995.94	37.34	148.19	-24.56	0.55	0.55	-0.35	
4,100.00	4.29	81.65	4,095.70	38.94	154.89	-25.58	0.99	0.64	10.93	
4,200.00	4.33	84.09	4,195.42	39.87	162.35	-25.87	0.19	0.04	2.44	
4,300.00	4.56	82.54	4,295.12	40.77	170.04	-26.11	0.26	0.23	-1.55	
4,400.00	4.11	86.05	4,394.83	41.54	177.56	-26.23	0.52	-0.45	3.51	
4,500.00	4.48	87.77	4,494.55	41.94	185.04	-25.99	0.39	0.37	1.72	
4,600.00	4.39	85.48	4,594.25	42.39	192.76	-25.79	0.20	-0.09	-2.29	
4,700.00	4.38	81.16	4,693.96	43.28	200.34	-26.02	0.33	-0.01	-4.32	
4,800.00	4.14	77.44	4,793.68	44.65	207.64	-26.77	0.37	-0.24	-3.72	
4,900.00	3.98	84.93	4,893.43	45.74	214.62	-27.26	0.55	-0.16	7.49	
5,000.00	3.96	80.67	4,993.19	46.61	221.49	-27.54	0.30	-0.02	-4.26	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,100.00	3.64	83.72	5,092.97	47.51	228.05	-27.88	0.38	-0.32		3.05
5,200.00	4.01	81.39	5,192.75	48.38	234.66	-28.18	0.40	-0.37		-2.33
5,300.00	3.79	84.72	5,292.52	49.21	241.41	-28.43	0.32	-0.22		3.33
5,400.00	3.80	82.56	5,392.30	49.95	247.99	-28.60	0.14	0.01		-2.16
5,500.00	3.73	78.72	5,492.08	51.01	254.46	-29.11	0.26	-0.07		-3.84
5,600.00	3.47	83.05	5,591.88	52.01	260.65	-29.58	0.38	-0.26		4.33
5,700.00	3.28	84.18	5,691.71	52.67	266.50	-29.74	0.20	-0.19		1.13
5,800.00	3.24	77.09	5,791.55	53.59	272.11	-30.18	0.40	-0.04		-7.09
5,900.00	3.23	77.77	5,891.39	54.82	277.61	-30.93	0.04	-0.01		0.68
6,000.00	3.14	73.92	5,991.24	56.17	283.00	-31.82	0.23	-0.09		-3.85
6,100.00	2.91	74.75	6,091.10	57.60	288.08	-32.81	0.23	-0.23		0.83
6,200.00	2.82	75.57	6,190.97	58.88	292.91	-33.67	0.10	-0.09		0.82
6,300.00	2.58	74.12	6,290.86	60.11	297.46	-34.51	0.25	-0.24		-1.45
6,400.00	2.78	67.06	6,390.75	61.67	301.86	-35.69	0.39	0.20		-7.06
6,500.00	2.78	64.94	6,490.63	63.64	306.29	-37.28	0.10	0.00		-2.12
6,600.00	2.47	64.21	6,590.53	65.61	310.42	-38.88	0.31	-0.31		-0.73
6,700.00	2.55	65.95	6,690.43	67.45	314.39	-40.38	0.11	0.08		1.74
6,800.00	2.68	67.52	6,790.33	69.25	318.59	-41.82	0.15	0.13		1.57
6,900.00	2.27	64.17	6,890.24	71.01	322.53	-43.23	0.43	-0.41		-3.35
7,000.00	1.74	62.67	6,990.17	72.57	325.66	-44.52	0.53	-0.53		-1.50
7,100.00	1.91	67.44	7,090.12	73.91	328.55	-45.60	0.23	0.17		4.77
7,200.00	2.31	66.89	7,190.05	75.34	331.94	-46.74	0.40	0.40		-0.55
7,300.00	1.87	62.50	7,289.99	76.88	335.24	-47.99	0.47	-0.44		-4.39
7,400.00	1.68	50.85	7,389.94	78.56	337.82	-49.45	0.41	-0.19		-11.65
7,500.00	1.77	46.87	7,489.90	80.54	340.09	-51.23	0.15	0.09		-3.98
7,600.00	1.80	37.72	7,589.85	82.84	342.18	-53.34	0.29	0.03		-9.15
7,700.00	2.15	55.77	7,689.79	85.14	344.69	-55.41	0.71	0.35		18.05
7,800.00	1.78	81.62	7,789.73	86.42	347.78	-56.43	0.95	-0.37		25.85
7,900.00	1.91	88.43	7,889.68	86.69	350.98	-56.43	0.25	0.13		6.81
8,000.00	2.01	74.87	7,989.62	87.19	354.34	-56.64	0.47	0.10		-13.56
8,100.00	2.06	70.47	8,089.56	88.25	357.72	-57.41	0.16	0.05		-4.40
8,200.00	1.62	75.34	8,189.51	89.21	360.79	-58.10	0.47	-0.44		4.87
8,300.00	2.01	81.03	8,289.46	89.84	363.89	-58.46	0.43	0.39		5.69
8,400.00	2.02	82.61	8,389.39	90.34	367.37	-58.67	0.06	0.01		1.58
8,500.00	2.43	97.96	8,489.32	90.28	371.21	-58.27	0.72	0.41		15.35
8,600.00	2.83	117.46	8,589.22	88.84	375.50	-56.48	0.97	0.40		19.50
8,700.00	2.71	123.46	8,689.10	86.40	379.67	-53.69	0.31	-0.12		6.00
8,800.00	1.44	158.38	8,789.04	83.93	382.10	-51.02	1.74	-1.27		34.92
8,900.00	0.20	97.18	8,889.02	82.74	382.74	-49.78	1.36	-1.24		-61.20
9,000.00	0.88	96.57	8,989.02	82.63	383.67	-49.59	0.68	0.68		-0.61
9,100.00	0.62	108.66	9,089.01	82.37	384.95	-49.22	0.30	-0.26		12.09
9,200.00	0.62	110.75	9,189.00	82.00	385.97	-48.77	0.02	0.00		2.09
9,300.00	0.89	109.50	9,289.00	81.55	387.20	-48.22	0.27	0.27		-1.25
9,350.00	1.13	108.45	9,338.99	81.27	388.04	-47.86	0.48	0.48		-2.10

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,485.00	1.80	104.71	9,473.94	80.31	391.35	-46.62	0.50	0.50	-2.77
9,506.00	1.67	106.43	9,494.93	80.14	391.96	-46.40	0.67	-0.62	8.19
9,602.00	4.88	292.23	9,590.84	81.29	389.52	-47.75	6.82	3.34	-181.46
9,696.00	3.43	272.20	9,684.60	82.91	383.01	-49.92	2.16	-1.54	-21.31
9,791.00	3.43	226.38	9,779.45	81.06	378.11	-48.50	2.81	0.00	-48.23
9,886.00	6.51	194.35	9,874.09	73.88	374.72	-41.63	4.25	3.24	-33.72
9,934.00	6.37	192.27	9,921.79	68.64	373.48	-36.52	0.57	-0.29	-4.33
9,981.00	9.63	183.56	9,968.33	62.17	372.68	-30.14	7.38	6.94	-18.53
10,029.00	14.87	175.90	10,015.22	52.01	372.87	-20.00	11.41	10.92	-15.96
10,076.00	17.10	168.11	10,060.41	39.23	374.73	-7.11	6.57	4.74	-16.57
10,124.00	19.30	158.96	10,106.01	24.91	379.03	7.52	7.50	4.58	-19.06
10,171.00	21.68	152.50	10,150.04	9.96	385.83	23.00	6.98	5.06	-13.74
10,219.00	24.14	146.82	10,194.26	-6.12	395.30	39.83	6.89	5.12	-11.83
10,267.00	27.75	150.56	10,237.42	-24.08	406.17	58.65	8.25	7.52	7.79
10,315.00	33.19	148.63	10,278.77	-45.04	418.51	80.59	11.51	11.33	-4.02
10,362.00	38.10	143.51	10,316.96	-67.70	433.84	104.48	12.22	10.45	-10.89
10,410.00	41.53	145.71	10,353.83	-92.77	451.62	130.96	7.72	7.15	4.58
10,457.00	43.37	146.20	10,388.51	-119.05	469.38	158.67	3.98	3.91	1.04
10,504.00	46.70	146.26	10,421.72	-146.69	487.86	187.78	7.09	7.09	0.13
10,551.00	51.24	146.21	10,452.56	-176.16	507.56	218.82	9.66	9.66	-0.11
10,599.00	55.59	148.25	10,481.17	-208.57	528.40	252.89	9.68	9.06	4.25
10,647.00	57.08	153.53	10,507.79	-243.46	547.81	289.31	9.67	3.10	11.00
10,665.00	57.82	154.59	10,517.47	-257.10	554.44	303.47	6.45	4.11	5.89
10,712.00	61.19	156.63	10,541.32	-293.98	571.15	341.65	8.09	7.17	4.34
10,759.00	66.82	153.40	10,561.92	-332.24	589.01	381.29	13.48	11.98	-6.87
10,806.00	71.70	153.79	10,578.55	-371.60	608.55	422.17	10.41	10.38	0.83
10,817.00	72.76	154.03	10,581.91	-381.00	613.16	431.94	9.85	9.62	2.21
Wellpath Crosses Section/Unit Line@ Heel									
10,854.00	76.32	154.83	10,591.77	-413.17	628.54	465.30	9.85	9.63	2.15
10,901.00	79.88	158.76	10,601.47	-455.43	646.65	508.94	11.15	7.57	8.36
10,948.00	83.39	162.64	10,608.31	-499.30	662.00	553.97	11.07	7.47	8.26
10,995.00	85.05	168.84	10,613.04	-544.60	673.51	600.08	13.59	3.53	13.19
11,043.00	83.00	174.56	10,618.04	-591.81	680.40	647.71	12.60	-4.27	11.92
11,090.00	81.37	179.92	10,624.44	-638.30	682.65	694.23	11.82	-3.47	11.40
11,098.22	81.40	179.99	10,625.67	-646.43	682.66	702.33	0.90	0.35	0.83
RS25 126H LP									
11,138.00	81.54	180.32	10,631.57	-685.77	682.55	741.51	0.90	0.35	0.83
11,164.00	81.40	180.33	10,635.43	-711.48	682.41	767.12	0.55	-0.55	0.02
Wellpath Crosses FTP									
11,164.54	81.40	180.33	10,635.51	-712.01	682.40	767.64	0.00	0.00	0.00
RS25 126H FTP_329FNL_14FEL (copy)									
11,185.00	81.28	180.33	10,638.59	-732.24	682.29	787.79	0.57	-0.57	0.02
11,233.00	81.20	179.95	10,645.90	-779.68	682.17	835.05	0.80	-0.17	-0.79
11,281.00	84.85	178.04	10,651.73	-827.31	683.01	882.57	8.57	7.60	-3.98

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,329.00	90.37	176.84	10,653.73	-875.20	685.15	930.47	11.77	11.50	-2.50
11,424.00	90.59	179.43	10,652.94	-970.14	688.24	1,025.33	2.74	0.23	2.73
11,519.00	88.44	180.91	10,653.74	-1,065.13	687.96	1,119.94	2.75	-2.26	1.56
11,613.00	88.53	180.80	10,656.23	-1,159.08	686.56	1,213.44	0.15	0.10	-0.12
11,709.00	89.54	181.54	10,657.84	-1,255.05	684.60	1,308.89	1.30	1.05	0.77
11,803.00	90.68	181.57	10,657.66	-1,349.01	682.05	1,402.29	1.21	1.21	0.03
11,899.00	88.09	181.09	10,658.69	-1,444.97	679.82	1,497.71	2.74	-2.70	-0.50
11,992.00	89.27	179.86	10,660.83	-1,537.94	679.05	1,590.27	1.83	1.27	-1.32
12,087.00	89.49	180.06	10,661.86	-1,632.93	679.12	1,684.93	0.31	0.23	0.21
12,181.00	89.05	179.30	10,663.06	-1,726.92	679.64	1,778.62	0.93	-0.47	-0.81
12,276.00	88.66	179.18	10,664.96	-1,821.90	680.90	1,873.35	0.43	-0.41	-0.13
12,372.00	91.03	178.46	10,665.22	-1,917.87	682.88	1,969.14	2.58	2.47	-0.75
12,467.00	90.59	177.70	10,663.88	-2,012.80	686.06	2,064.00	0.92	-0.46	-0.80
12,561.00	92.35	179.38	10,661.46	-2,106.74	688.46	2,157.80	2.59	1.87	1.79
12,656.00	91.21	180.22	10,658.51	-2,201.69	688.79	2,252.43	1.49	-1.20	0.88
12,751.00	91.43	180.52	10,656.32	-2,296.66	688.17	2,347.00	0.39	0.23	0.32
12,846.00	89.98	179.27	10,655.16	-2,391.65	688.35	2,441.66	2.02	-1.53	-1.32
12,939.00	89.58	179.58	10,655.51	-2,484.64	689.28	2,534.40	0.54	-0.43	0.33
13,034.00	88.48	179.16	10,657.12	-2,579.62	690.33	2,629.12	1.24	-1.16	-0.44
13,129.00	88.53	180.21	10,659.60	-2,674.59	690.85	2,723.78	1.11	0.05	1.11
13,224.00	90.07	181.02	10,660.76	-2,769.57	689.83	2,818.33	1.83	1.62	0.85
13,319.00	90.15	181.84	10,660.58	-2,864.54	687.46	2,912.75	0.87	0.08	0.86
13,414.00	90.73	180.53	10,659.85	-2,959.51	685.49	3,007.21	1.51	0.61	-1.38
13,509.00	90.64	180.75	10,658.71	-3,054.50	684.43	3,101.76	0.25	-0.09	0.23
13,604.00	90.77	180.63	10,657.54	-3,149.49	683.29	3,196.30	0.19	0.14	-0.13
13,699.00	91.03	180.16	10,656.05	-3,244.47	682.63	3,290.89	0.57	0.27	-0.49
13,793.00	89.41	179.18	10,655.69	-3,338.47	683.17	3,384.58	2.01	-1.72	-1.04
13,888.00	90.07	179.45	10,656.12	-3,433.46	684.31	3,479.33	0.75	0.69	0.28
13,983.00	90.64	179.81	10,655.53	-3,528.45	684.92	3,574.03	0.71	0.60	0.38
14,077.00	91.91	180.57	10,653.44	-3,622.43	684.61	3,667.63	1.57	1.35	0.81
14,172.00	91.56	181.12	10,650.56	-3,717.37	683.21	3,762.11	0.69	-0.37	0.58
14,267.00	89.89	179.69	10,649.36	-3,812.36	682.54	3,856.69	2.31	-1.76	-1.51
14,362.00	90.64	180.19	10,648.92	-3,907.35	682.64	3,951.35	0.95	0.79	0.53
14,456.00	89.93	178.68	10,648.46	-4,001.35	683.57	4,045.08	1.78	-0.76	-1.61
14,551.00	89.80	178.08	10,648.68	-4,096.31	686.25	4,139.92	0.65	-0.14	-0.63
14,646.00	91.87	178.69	10,647.30	-4,191.25	688.93	4,234.75	2.27	2.18	0.64
14,741.00	90.55	181.00	10,645.29	-4,286.22	689.19	4,329.40	2.80	-1.39	2.43
14,835.00	88.00	181.55	10,646.48	-4,380.18	687.09	4,422.84	2.78	-2.71	0.59
14,931.00	88.70	180.38	10,649.24	-4,476.13	685.48	4,518.29	1.42	0.73	-1.22
15,026.00	87.12	178.77	10,652.71	-4,571.06	686.18	4,612.94	2.37	-1.66	-1.69
15,121.00	87.74	177.81	10,656.97	-4,665.92	689.01	4,707.69	1.20	0.65	-1.01
15,216.00	88.97	179.33	10,659.69	-4,760.84	691.38	4,802.48	2.06	1.29	1.60
15,310.00	88.97	179.29	10,661.38	-4,854.82	692.52	4,896.21	0.04	0.00	-0.04

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,405.00	88.35	179.58	10,663.61	-4,949.79	693.45	4,990.91	0.72	-0.65	0.31
15,499.00	87.91	178.47	10,666.67	-5,043.73	695.05	5,084.64	1.27	-0.47	-1.18
15,594.00	92.04	178.43	10,666.71	-5,138.67	697.62	5,179.46	4.35	4.35	-0.04
15,688.00	93.05	178.38	10,662.54	-5,232.54	700.23	5,273.21	1.08	1.07	-0.05
15,783.00	92.84	179.98	10,657.66	-5,327.40	701.59	5,367.84	1.70	-0.22	1.68
15,877.00	92.75	181.01	10,653.08	-5,421.28	700.78	5,461.31	1.10	-0.10	1.10
15,973.00	89.45	181.57	10,651.23	-5,517.23	698.62	5,556.72	3.49	-3.44	0.58
16,067.00	89.19	181.22	10,652.35	-5,611.19	696.33	5,650.15	0.46	-0.28	-0.37
16,162.00	89.14	181.01	10,653.73	-5,706.17	694.48	5,744.61	0.23	-0.05	-0.22
16,256.00	88.79	180.96	10,655.43	-5,800.14	692.87	5,838.10	0.38	-0.37	-0.05
16,351.00	88.04	180.82	10,658.06	-5,895.09	691.39	5,932.58	0.80	-0.79	-0.15
16,446.00	90.07	180.90	10,659.63	-5,990.06	689.97	6,027.09	2.14	2.14	0.08
16,542.00	89.32	180.44	10,660.14	-6,086.05	688.84	6,122.63	0.92	-0.78	-0.48
16,636.00	91.21	179.64	10,659.70	-6,180.04	688.78	6,216.28	2.18	2.01	-0.85
16,731.00	90.24	179.58	10,658.50	-6,275.03	689.42	6,310.98	1.02	-1.02	-0.06
16,825.00	89.41	179.50	10,658.79	-6,369.03	690.18	6,404.69	0.89	-0.88	-0.09
16,920.00	88.97	179.08	10,660.13	-6,464.01	691.36	6,499.43	0.64	-0.46	-0.44
17,015.00	89.19	178.24	10,661.65	-6,558.97	693.58	6,594.23	0.91	0.23	-0.88
17,109.00	89.19	178.97	10,662.98	-6,652.94	695.87	6,688.05	0.78	0.00	0.78
17,203.00	90.42	179.70	10,663.30	-6,746.93	696.96	6,781.79	1.52	1.31	0.78
17,297.00	88.57	178.16	10,664.13	-6,840.90	698.71	6,875.57	2.56	-1.97	-1.64
17,392.00	89.89	179.59	10,665.41	-6,935.87	700.58	6,970.35	2.05	1.39	1.51
17,487.00	92.40	180.05	10,663.51	-7,030.84	700.87	7,065.00	2.69	2.64	0.48
17,582.00	90.02	178.94	10,661.50	-7,125.81	701.71	7,159.69	2.76	-2.51	-1.17
17,677.00	91.82	178.69	10,659.98	-7,220.77	703.68	7,254.48	1.91	1.89	-0.26
17,771.00	88.88	178.28	10,659.41	-7,314.73	706.16	7,348.30	3.16	-3.13	-0.44
17,866.00	88.84	178.77	10,661.30	-7,409.68	708.61	7,443.12	0.52	-0.04	0.52
17,960.00	88.18	178.44	10,663.74	-7,503.61	710.89	7,536.91	0.78	-0.70	-0.35
18,055.00	89.71	179.25	10,665.49	-7,598.58	712.81	7,631.69	1.82	1.61	0.85
18,149.00	91.74	179.78	10,664.30	-7,692.56	713.60	7,725.39	2.23	2.16	0.56
18,244.00	91.30	181.21	10,661.78	-7,787.52	712.78	7,819.94	1.57	-0.46	1.51
18,339.00	89.36	182.16	10,661.23	-7,882.47	709.99	7,914.31	2.27	-2.04	1.00
18,433.00	90.37	183.09	10,661.45	-7,976.37	705.69	8,007.49	1.46	1.07	0.99
18,475.71	90.03	183.00	10,661.30	-8,019.02	703.42	8,049.79	0.81	-0.79	-0.21
RS25 126H LTP_330FSL_36FWL (copy)									
18,476.00	90.03	183.00	10,661.30	-8,019.31	703.40	8,050.08	0.81	-0.79	-0.21
Wellpath Crosses LTP									
18,545.00	89.49	182.86	10,661.59	-8,088.22	699.87	8,118.44	0.81	-0.79	-0.21
18,598.00	89.49	182.86	10,662.06	-8,141.15	697.23	8,170.95	0.00	0.00	0.00
TD @ 49FNL,309FWL - RS25 126H PBHL_200FSL_36FWL (copy)									

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well RS25-126H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3061+22 @ 3083.00usft (Perseus)
Site:	Remuda South 25 State Pad	MD Reference:	3061+22 @ 3083.00usft (Perseus)
Well:	RS25-126H	North Reference:	Grid
Wellbore:	126H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	126H Lateral AsDrilled	Database:	TP_EDM

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RS25 126H SHL (copy) - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	464,639.37	622,968.96	32° 16' 36.421 N	103° 56' 7.635 W
RS25 126H FTP_329FN - actual wellpath misses target center by 6.69usft at 11164.53usft MD (10635.51 TVD, -712.01 N, 682.40 E) - Point	0.00	0.00	10,640.0 0	-711.30	677.50	463,928.07	623,646.46	32° 16' 29.357 N	103° 55' 59.774 W
RS25 126H BHL - actual wellpath hits target center - Point	0.00	0.00	10,662.0 6	-8,141.15	697.23	456,498.22	623,666.19	32° 15' 15.830 N	103° 55' 59.867 W
RS25 126H PBHL_200F - actual wellpath misses target center by 16.19usft at 18598.00usft MD (10662.06 TVD, -8141.15 N, 697.23 E) - Rectangle (sides W100.00 H7,440.00 D0.00)	0.00	0.01	10,666.0 0	-8,149.38	710.60	456,489.99	623,679.56	32° 15' 15.748 N	103° 55' 59.711 W
RS25 126H LTP_330FS - actual wellpath misses target center by 8.10usft at 18475.73usft MD (10661.30 TVD, -8019.04 N, 703.41 E) - Point	0.00	0.00	10,666.0 0	-8,019.38	710.00	456,619.99	623,678.96	32° 15' 17.034 N	103° 55' 59.713 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,817.00	10,581.91	-381.00	613.16	Wellpath Crosses Section/Unit Line@ Heel
11,164.00	10,635.43	-711.48	682.41	Wellpath Crosses FTP
18,476.00	10,661.30	-8,019.31	703.40	Wellpath Crosses LTP
18,598.00	10,662.06	-8,141.15	697.23	TD @ 49FNL,309FWL

Checked By: _____	Approved By: _____	Date: _____
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