

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

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 08 2019
RECEIVED

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- 44838	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 321151	⁵ Property Name MUY WAYNO 18 FEDERAL	⁶ Well Number 102H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,166'

¹⁰ Surface Location

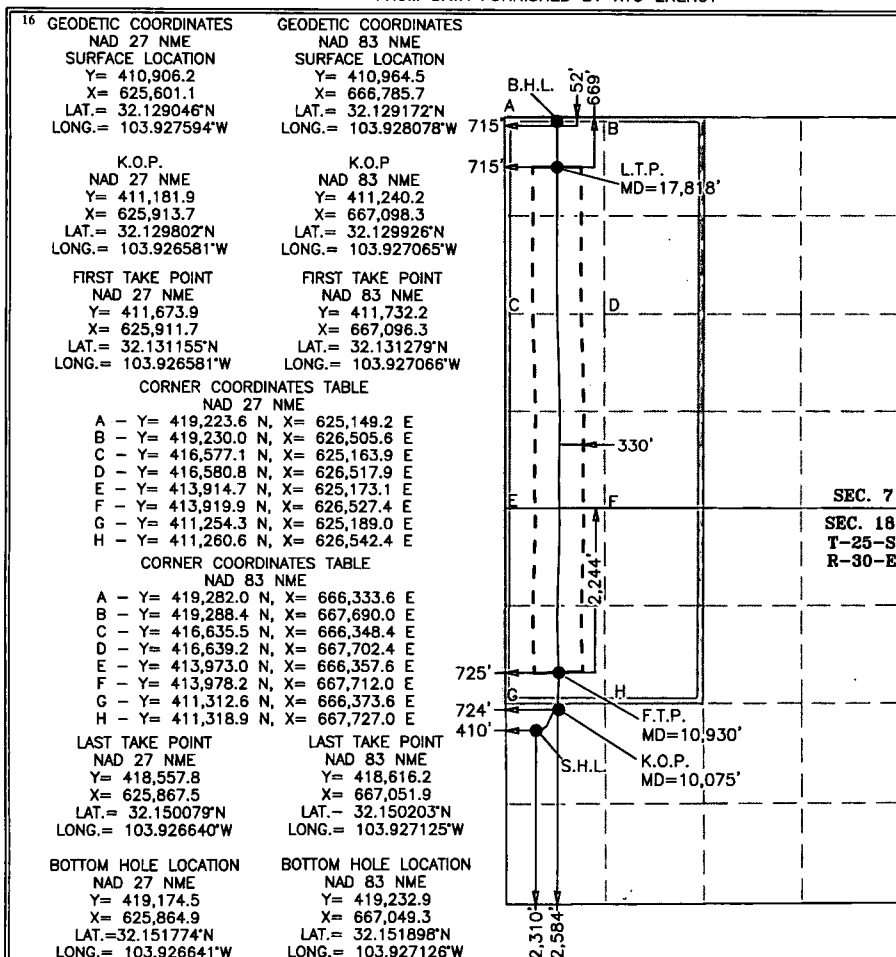
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	18	25 S	30 E		2,310	SOUTH	410	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	7	25 S	30 E		52	NORTH	715	WEST	EDDY

¹² Dedicated Acres 483.44	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 9/4/19
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.

9-4-2019

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number



JC

2017060868

NM OIL CONSERVATION

ARTESIA DISTRICT

Intent ☐ As Drilled ☒

SEP 09 2019

API #
30-015-44838

RECEIVED

Operator Name:	Property Name:	Well Number
XTO ENERGY, INC.	Muy Wayno 18 Federal	102H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
3	18	25S	30E		2584	South	724	West	Eddy
Latitude					Longitude				NAD
32.129926					103.927065				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
2	18	25S	30E		2244	North	725	West	Eddy
Latitude					Longitude				NAD
32.131279					103.927066				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
1	7	25S	30E		669	North	715	West	Eddy
Latitude					Longitude				NAD
32.150203					103.927125				83

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

Is this well an infill well? ☐

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

API #			
Operator Name:	Property Name:	Well Number	

KZ 06/29/2018

NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 09 2019

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_EDM

Project	Eddy County, NM (NAD27) NMEZgrid		
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	Muy Wayno 18 Federal 102H		
Site Position:		Northing:	410,906.20 usft
From:	Map	Easting:	625,601.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32.12904748
		Longitude:	-103.92759374
		Grid Convergence:	0.22 °

Well		Muy Wayno 18 Federal 102H - Slot 102H				
Well Position	+N/-S	0.00 usft	Northing:	410,906.20 usft	Latitude:	32.12904748
	+E/-W	0.00 usft	Easting:	625,601.10 usft	Longitude:	-103.92759374
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,192.00 usft

Wellbore	102H L1_ST				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/09/18	6.96	59.90	47,702.48589543

Design	102H L1_ST (AsDrilled)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	4,980.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		359.71

Survey Program	Date 11/23/18				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
281.00	4,980.00	Survey #1 (102H Pilot)	MWD	OWSG MWD - Standard	
5,050.00	10,045.00	Survey #1 (102H L1_ST)	MWD	OWSG MWD - Standard	
10,062.00	18,390.00	Survey #2 (102H L1_ST)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
18,435.00	18,435.00	Survey #3 (102H L1_ST)	Projection	Projection	

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Muy Wayno 18 Fed 102H SHL									
281.00	0.60	246.00	280.99	-0.60	-1.34	-0.59	0.21	0.21	0.00
377.00	1.40	328.00	376.98	0.19	-2.42	0.20	1.50	0.83	85.42
499.00	1.20	355.00	498.95	2.73	-3.33	2.74	0.52	-0.16	22.13
597.00	0.40	332.00	596.94	4.05	-3.58	4.07	0.86	-0.82	-23.47
785.00	0.40	272.00	784.94	4.65	-4.54	4.68	0.21	0.00	-31.91
898.00	1.20	189.00	897.93	3.50	-5.12	3.53	1.08	0.71	-73.45

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_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)
937.00	1.10	185.00	936.92	2.72	-5.22	2.75	0.33	-0.26	-10.26
1,030.00	1.19	187.90	1,029.90	0.88	-5.43	0.90	0.12	0.10	3.12
1,124.00	0.66	181.05	1,123.89	-0.63	-5.57	-0.60	0.57	-0.56	-7.29
1,219.00	1.01	183.16	1,218.88	-2.01	-5.63	-1.99	0.37	0.37	2.22
1,313.00	0.79	180.43	1,312.87	-3.49	-5.68	-3.46	0.24	-0.23	-2.90
1,406.00	1.01	180.87	1,405.86	-4.95	-5.69	-4.92	0.24	0.24	0.47
1,501.00	0.79	181.40	1,500.85	-6.44	-5.72	-6.41	0.23	-0.23	0.56
1,595.00	0.70	198.63	1,594.84	-7.63	-5.92	-7.60	0.26	-0.10	18.33
1,689.00	0.62	180.34	1,688.83	-8.69	-6.11	-8.66	0.24	-0.09	-19.46
1,784.00	0.48	134.55	1,783.83	-9.48	-5.83	-9.45	0.47	-0.15	-48.20
1,878.00	1.49	83.22	1,877.81	-9.61	-4.33	-9.59	1.33	1.07	-54.61
1,972.00	2.29	81.20	1,971.76	-9.18	-1.26	-9.17	0.85	0.85	-2.15
2,066.00	2.20	85.95	2,065.69	-8.76	2.39	-8.78	0.22	-0.10	5.05
2,160.00	2.29	89.55	2,159.62	-8.62	6.07	-8.65	0.18	0.10	3.83
2,254.00	2.20	89.29	2,253.55	-8.59	9.75	-8.63	0.10	-0.10	-0.28
2,348.00	1.89	82.96	2,347.49	-8.37	13.09	-8.44	0.41	-0.33	-6.73
2,442.00	1.41	77.86	2,441.45	-7.94	15.76	-8.02	0.53	-0.51	-5.43
2,536.00	1.19	81.73	2,535.42	-7.56	17.86	-7.65	0.25	-0.23	4.12
2,630.00	1.10	79.80	2,629.40	-7.26	19.71	-7.35	0.10	-0.10	-2.05
2,725.00	1.10	84.46	2,724.39	-7.01	21.52	-7.11	0.09	0.00	4.91
2,819.00	1.71	101.24	2,818.36	-7.19	23.79	-7.31	0.78	0.65	17.85
2,913.00	2.42	107.04	2,912.30	-8.05	27.06	-8.18	0.79	0.76	6.17
3,006.00	2.59	110.30	3,005.21	-9.35	30.91	-9.51	0.24	0.18	3.51
3,100.00	3.38	106.25	3,099.08	-10.86	35.57	-11.04	0.87	0.84	-4.31
3,194.00	4.00	103.53	3,192.88	-12.41	41.41	-12.61	0.69	0.66	-2.89
3,288.00	4.31	87.80	3,286.64	-13.04	48.13	-13.28	1.25	0.33	-16.73
3,382.00	4.31	59.58	3,380.38	-11.11	54.71	-11.39	2.23	0.00	-30.02
3,476.00	4.22	48.33	3,474.13	-7.03	60.34	-7.33	0.89	-0.10	-11.97
3,570.00	3.78	50.27	3,567.90	-2.75	65.30	-3.07	0.49	-0.47	2.06
3,664.00	3.69	49.47	3,661.70	1.20	69.98	0.85	0.11	-0.10	-0.85
3,758.00	3.52	49.83	3,755.51	5.03	74.49	4.66	0.18	-0.18	0.38
3,852.00	3.52	50.27	3,849.33	8.73	78.91	8.34	0.03	0.00	0.47
3,946.00	3.52	52.46	3,943.16	12.34	83.42	11.92	0.14	0.00	2.33
4,040.00	3.60	55.10	4,036.97	15.78	88.13	15.34	0.19	0.09	2.81
4,135.00	3.52	52.46	4,131.79	19.27	92.89	18.80	0.19	-0.08	-2.78
4,229.00	3.60	50.97	4,225.61	22.88	97.47	22.40	0.13	0.09	-1.59
4,323.00	3.52	51.67	4,319.43	26.53	102.02	26.02	0.10	-0.09	0.74
4,417.00	3.30	49.47	4,413.26	30.08	106.34	29.55	0.27	-0.23	-2.34
4,511.00	3.21	46.75	4,507.11	33.64	110.32	33.09	0.19	-0.10	-2.89
4,604.00	3.69	52.55	4,599.94	37.24	114.59	36.67	0.64	0.52	6.24
4,698.00	4.00	56.24	4,693.73	40.90	119.72	40.31	0.42	0.33	3.93
4,791.00	4.00	54.40	4,786.50	44.60	125.05	43.97	0.14	0.00	-1.98
4,886.00	4.00	55.89	4,881.27	48.38	130.49	47.73	0.11	0.00	1.57

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_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)
4,980.00	4.22	61.43	4,975.03	51.87	136.24	51.19	0.48	0.23	5.89
5,050.00	8.47	31.61	5,044.60	57.50	141.21	56.80	7.49	6.07	-42.59
5,144.00	12.11	25.83	5,137.08	72.28	149.14	71.53	4.02	3.87	-6.15
5,238.00	14.56	22.39	5,228.54	92.08	157.94	91.29	2.74	2.61	-3.66
5,332.00	14.14	20.84	5,319.61	113.73	166.52	112.90	0.61	-0.45	-1.65
5,426.00	13.28	29.60	5,410.94	133.85	175.94	132.97	2.39	-0.91	9.32
5,521.00	13.03	31.22	5,503.44	152.50	186.89	151.56	0.47	-0.26	1.71
5,615.00	12.62	32.42	5,595.10	170.23	197.89	169.24	0.52	-0.44	1.28
5,709.00	12.02	32.40	5,686.93	187.16	208.64	186.12	0.64	-0.64	-0.02
5,803.00	12.17	24.12	5,778.85	204.47	217.93	203.38	1.85	0.16	-8.81
5,897.00	11.41	30.98	5,870.87	221.48	226.77	220.35	1.69	-0.81	7.30
5,992.00	11.00	43.66	5,964.08	236.10	237.87	234.91	2.62	-0.43	13.35
6,086.00	8.93	51.99	6,056.66	247.08	249.81	245.83	2.68	-2.20	8.86
6,181.00	7.84	58.45	6,150.64	255.01	261.14	253.70	1.51	-1.15	6.80
6,275.00	6.97	59.39	6,243.86	261.27	271.51	259.91	0.93	-0.93	1.00
6,369.00	4.77	55.58	6,337.36	266.38	279.65	264.98	2.38	-2.34	-4.05
6,463.00	4.00	62.91	6,431.09	270.08	285.79	268.65	1.01	-0.82	7.80
6,557.00	3.99	64.78	6,524.86	272.97	291.67	271.51	0.14	-0.01	1.99
6,651.00	3.91	63.87	6,618.63	275.77	297.50	274.29	0.11	-0.09	-0.97
6,745.00	3.97	63.87	6,712.41	278.62	303.30	277.10	0.06	0.06	0.00
6,839.00	2.63	65.45	6,806.25	280.95	308.19	279.41	1.43	-1.43	1.68
6,933.00	1.41	57.15	6,900.19	282.47	311.12	280.91	1.33	-1.30	-8.83
7,027.00	1.03	54.45	6,994.17	283.59	312.78	282.02	0.41	-0.40	-2.87
7,122.00	0.88	60.38	7,089.16	284.45	314.11	282.87	0.19	-0.16	6.24
7,216.00	0.56	59.49	7,183.15	285.03	315.13	283.46	0.34	-0.34	-0.95
7,310.00	0.63	27.12	7,277.15	285.73	315.76	284.15	0.36	0.07	-34.44
7,404.00	1.14	328.30	7,371.14	286.98	315.51	285.41	1.04	0.54	-62.57
7,499.00	1.31	313.24	7,466.12	288.53	314.22	286.96	0.38	0.18	-15.85
7,593.00	1.51	302.14	7,560.09	289.93	312.39	288.37	0.36	0.21	-11.81
7,687.00	1.09	287.54	7,654.06	290.86	310.49	289.30	0.57	-0.45	-15.53
7,781.00	1.19	278.05	7,748.04	291.26	308.67	289.72	0.23	0.11	-10.10
7,875.00	0.73	268.84	7,842.03	291.39	307.10	289.85	0.51	-0.49	-9.80
7,969.00	1.25	142.79	7,936.02	290.56	307.12	289.02	1.89	0.55	-134.10
8,063.00	0.71	149.05	8,030.01	289.24	308.04	287.70	0.58	-0.57	6.66
8,157.00	0.55	141.62	8,124.00	288.39	308.62	286.85	0.19	-0.17	-7.90
8,250.00	1.22	156.01	8,216.99	287.13	309.30	285.59	0.75	0.72	15.47
8,345.00	1.36	163.87	8,311.97	285.13	310.03	283.58	0.24	0.15	8.27
8,439.00	1.51	177.06	8,405.94	282.82	310.40	281.27	0.38	0.16	14.03
8,533.00	0.91	216.81	8,499.92	280.98	310.02	279.43	1.06	-0.64	42.29
8,626.00	1.03	230.07	8,592.91	279.86	308.93	278.31	0.27	0.13	14.26
8,720.00	0.56	351.10	8,686.90	279.77	308.21	278.23	1.49	-0.50	128.76
8,814.00	0.60	291.38	8,780.90	280.40	307.69	278.86	0.62	0.04	-63.53
8,911.00	0.56	216.20	8,877.89	280.20	306.93	278.67	0.73	-0.04	-77.51
9,006.00	0.99	142.09	8,972.89	279.18	307.16	277.65	1.05	0.45	-78.01

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_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)
9,101.00	1.29	163.63	9,067.87	277.51	307.97	275.97	0.55	0.32	22.67
9,195.00	0.56	87.78	9,161.86	276.51	308.72	274.97	1.36	-0.78	-80.69
9,289.00	1.79	64.62	9,255.84	277.16	310.51	275.60	1.38	1.31	-24.64
9,383.00	1.89	79.65	9,349.79	278.06	313.36	276.50	0.52	0.11	15.99
9,478.00	0.49	37.45	9,444.77	278.67	315.15	277.09	1.64	-1.47	-44.42
9,572.00	0.16	220.72	9,538.77	278.89	315.31	277.31	0.69	-0.35	-188.01
9,666.00	0.47	193.67	9,632.76	278.41	315.13	276.84	0.36	0.33	-28.78
9,759.00	0.55	198.57	9,725.76	277.62	314.90	276.05	0.10	0.09	5.27
9,852.00	0.63	227.20	9,818.76	276.85	314.38	275.28	0.32	0.09	30.78
9,947.00	0.69	233.26	9,913.75	276.15	313.54	274.59	0.10	0.06	6.38
10,008.00	0.48	235.62	9,974.75	275.79	313.04	274.22	0.35	-0.34	3.87
10,045.00	0.40	238.38	10,011.75	275.63	312.80	274.07	0.22	-0.22	7.46
10,062.00	0.40	268.78	10,028.75	275.60	312.69	274.04	1.23	0.00	178.82
10,093.00	1.70	322.58	10,059.74	275.96	312.30	274.40	4.84	4.19	173.55
10,124.00	2.90	329.08	10,090.71	277.00	311.62	275.44	3.96	3.87	20.97
10,155.00	5.60	342.38	10,121.63	279.12	310.76	277.56	9.21	8.71	42.90
10,187.00	9.10	352.98	10,153.36	283.12	309.98	281.57	11.68	10.94	33.12
10,218.00	11.30	356.98	10,183.87	288.59	309.52	287.04	7.45	7.10	12.90
10,249.00	12.80	357.38	10,214.19	295.05	309.20	293.50	4.85	4.84	1.29
10,280.00	14.70	355.78	10,244.30	302.40	308.75	300.86	6.25	6.13	-5.16
10,312.00	17.20	356.38	10,275.06	311.18	308.16	309.63	7.83	7.81	1.87
10,343.00	18.20	355.18	10,304.59	320.57	307.46	319.04	3.43	3.23	-3.87
10,380.00	20.20	353.18	10,339.53	332.68	306.22	331.14	5.69	5.41	-5.41
10,412.00	23.60	352.18	10,369.22	344.51	304.69	342.99	10.69	10.62	-3.12
10,427.00	26.31	353.41	10,382.82	350.79	303.90	349.27	18.36	18.03	8.18
Wellpath Crosses Unit Line @ Heel									
10,443.00	29.20	354.48	10,396.98	358.20	303.12	356.68	18.36	18.09	6.71
10,475.00	36.20	358.48	10,423.89	375.44	302.12	373.92	22.88	21.87	12.50
10,506.00	39.70	357.48	10,448.33	394.49	301.44	392.98	11.46	11.29	-3.23
10,538.00	44.00	357.38	10,472.16	415.81	300.48	414.30	13.44	13.44	-0.31
10,549.00	46.00	357.58	10,479.94	423.58	300.14	422.08	18.23	18.18	1.82
10,570.00	49.20	358.78	10,494.10	439.08	299.66	437.58	15.81	15.24	5.71
10,601.00	54.00	1.58	10,513.35	463.36	299.75	461.86	17.02	15.48	9.03
10,632.00	58.40	3.28	10,530.59	489.09	300.86	487.58	14.91	14.19	5.48
10,664.00	60.00	3.88	10,546.98	516.52	302.58	515.00	5.25	5.00	1.87
10,695.00	62.40	3.88	10,561.91	543.62	304.42	542.10	7.74	7.74	0.00
10,726.00	64.00	4.28	10,575.89	571.22	306.39	569.68	5.29	5.16	1.29
10,758.00	68.40	2.88	10,588.80	600.43	308.21	598.89	14.32	13.75	-4.37
10,789.00	72.00	2.18	10,599.30	629.57	309.50	628.02	11.81	11.61	-2.26
10,820.00	75.30	2.38	10,608.03	659.29	310.68	657.73	10.66	10.65	0.65
10,851.00	79.10	0.98	10,614.89	689.50	311.57	687.93	13.02	12.26	-4.52
10,863.00	79.91	0.44	10,617.08	701.29	311.72	699.73	8.10	6.77	-4.53
Wellpath Crosses HL @ Heel									

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_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)
10,864.96	80.05	0.35	10,617.42	703.23	311.73	701.66	8.10	6.77	-4.52
Muy Wayno 18 Fed 102H FTP									
10,882.00	81.20	359.58	10,620.20	720.04	311.72	718.47	8.10	6.78	-4.50
10,913.00	83.70	358.28	10,624.27	750.76	311.15	749.20	9.07	8.06	-4.19
10,945.00	87.10	357.58	10,626.83	782.63	310.00	781.07	10.85	10.62	-2.19
10,976.00	90.80	357.88	10,627.40	813.60	308.77	812.05	11.97	11.94	0.97
11,071.00	88.80	358.08	10,627.73	908.53	305.43	907.00	2.12	-2.11	0.21
11,165.00	85.30	355.98	10,632.57	1,002.26	300.58	1,000.75	4.34	-3.72	-2.23
11,260.00	88.30	357.48	10,637.87	1,096.95	295.18	1,095.46	3.53	3.16	1.58
11,353.00	90.90	358.28	10,638.52	1,189.87	291.74	1,188.40	2.93	2.80	0.86
11,448.00	91.50	359.58	10,636.53	1,284.83	289.98	1,283.37	1.51	0.63	1.37
11,542.00	91.80	359.48	10,633.83	1,378.79	289.21	1,377.33	0.34	0.32	-0.11
11,637.00	91.70	359.28	10,630.93	1,473.74	288.19	1,472.28	0.24	-0.11	-0.21
11,731.00	90.40	359.98	10,629.20	1,567.72	287.59	1,566.27	1.57	-1.38	0.74
11,825.00	91.70	359.88	10,627.48	1,661.70	287.48	1,660.25	1.39	1.38	-0.11
11,919.00	91.30	357.98	10,625.02	1,755.65	285.74	1,754.20	2.06	-0.43	-2.02
12,013.00	92.80	2.38	10,621.66	1,849.56	286.04	1,848.11	4.94	1.60	4.68
12,107.00	88.70	1.88	10,620.43	1,943.47	289.54	1,942.00	4.39	-4.36	-0.53
12,201.00	90.40	2.98	10,621.16	2,037.38	293.53	2,035.89	2.15	1.81	1.17
12,295.00	90.20	0.88	10,620.67	2,131.32	296.70	2,129.81	2.24	-0.21	-2.23
12,389.00	90.50	0.78	10,620.10	2,225.30	298.07	2,223.79	0.34	0.32	-0.11
12,483.00	89.50	1.78	10,620.10	2,319.28	300.18	2,317.75	1.50	-1.06	1.06
12,577.00	89.80	0.78	10,620.67	2,413.25	302.28	2,411.71	1.11	0.32	-1.06
12,671.00	90.20	2.48	10,620.67	2,507.21	304.96	2,505.66	1.86	0.43	1.81
12,765.00	91.20	2.18	10,619.52	2,601.12	308.79	2,599.55	1.11	1.06	-0.32
12,859.00	89.50	1.08	10,618.95	2,695.08	311.47	2,693.49	2.15	-1.81	-1.17
12,953.00	87.80	359.48	10,621.16	2,789.04	311.94	2,787.45	2.48	-1.81	-1.70
13,049.00	87.70	359.48	10,624.93	2,884.97	311.07	2,883.38	0.10	-0.10	0.00
13,143.00	86.80	358.18	10,629.44	2,978.84	309.16	2,977.26	1.68	-0.96	-1.38
13,236.00	87.00	357.48	10,634.47	3,071.63	305.66	3,070.07	0.78	0.22	-0.75
13,330.00	91.80	358.98	10,635.46	3,165.55	302.76	3,164.00	5.35	5.11	1.60
13,423.00	91.20	359.38	10,633.02	3,258.51	301.44	3,256.97	0.78	-0.65	0.43
13,517.00	91.30	359.58	10,630.97	3,352.48	300.59	3,350.94	0.24	0.11	0.21
13,611.00	91.10	0.18	10,629.00	3,446.46	300.40	3,444.92	0.67	-0.21	0.64
13,705.00	91.20	0.88	10,627.12	3,540.44	301.28	3,538.89	0.75	0.11	0.74
13,800.00	91.20	0.98	10,625.13	3,635.41	302.83	3,633.85	0.11	0.00	0.11
13,916.00	90.40	0.88	10,623.51	3,751.38	304.72	3,749.81	0.70	-0.69	-0.09
14,011.00	89.80	0.28	10,623.34	3,846.37	305.69	3,844.80	0.89	-0.63	-0.63
14,105.00	90.00	359.58	10,623.51	3,940.37	305.58	3,938.80	0.77	0.21	-0.74
14,198.00	91.80	2.78	10,622.04	4,033.32	307.50	4,031.74	3.95	1.94	3.44
14,292.00	90.00	0.48	10,620.57	4,127.26	310.18	4,125.67	3.11	-1.91	-2.45
14,387.00	89.70	1.68	10,620.82	4,222.25	311.98	4,220.64	1.30	-0.32	1.26
14,480.00	88.70	358.48	10,622.12	4,315.22	312.11	4,313.61	3.60	-1.08	-3.44
14,574.00	89.00	357.88	10,624.00	4,409.16	309.13	4,407.56	0.71	0.32	-0.64

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_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)
14,669.00	89.90	358.28	10,624.91	4,504.10	305.96	4,502.52	1.04	0.95	0.42
14,763.00	87.90	357.68	10,626.72	4,598.02	302.65	4,596.45	2.22	-2.13	-0.64
14,857.00	88.90	358.08	10,629.34	4,691.91	299.18	4,690.36	1.15	1.06	0.43
14,952.00	92.10	359.48	10,628.51	4,786.88	297.17	4,785.33	3.68	3.37	1.47
15,045.00	92.10	359.98	10,625.11	4,879.81	296.74	4,878.27	0.54	0.00	0.54
15,139.00	90.60	358.08	10,622.89	4,973.77	295.15	4,972.23	2.57	-1.60	-2.02
15,233.00	90.20	358.08	10,622.24	5,067.71	292.01	5,066.19	0.43	-0.43	0.00
15,327.00	88.70	356.78	10,623.14	5,161.61	287.80	5,160.11	2.11	-1.60	-1.38
15,421.00	90.90	357.68	10,623.47	5,255.49	283.27	5,254.01	2.53	2.34	0.96
15,515.00	90.50	356.78	10,622.32	5,349.37	278.73	5,347.92	1.05	-0.43	-0.96
15,609.00	89.70	359.08	10,622.15	5,443.30	275.34	5,441.86	2.59	-0.85	2.45
15,703.00	90.60	358.78	10,621.91	5,537.29	273.60	5,535.85	1.01	0.96	-0.32
15,797.00	88.90	0.18	10,622.32	5,631.28	272.75	5,629.85	2.34	-1.81	1.49
15,891.00	87.70	358.78	10,625.11	5,725.23	271.90	5,723.80	1.96	-1.28	-1.49
15,986.00	87.70	357.78	10,628.92	5,820.11	269.06	5,818.69	1.05	0.00	-1.05
16,080.00	89.80	358.68	10,630.97	5,914.03	266.17	5,912.63	2.43	2.23	0.96
16,174.00	91.30	0.08	10,630.07	6,008.02	265.16	6,006.62	2.18	1.60	1.49
16,268.00	91.60	0.28	10,627.69	6,101.99	265.46	6,100.59	0.38	0.32	0.21
16,363.00	91.30	359.58	10,625.28	6,196.96	265.35	6,195.56	0.80	-0.32	-0.74
16,457.00	90.40	359.58	10,623.89	6,290.94	264.67	6,289.54	0.96	-0.96	0.00
16,551.00	90.90	0.28	10,622.82	6,384.94	264.56	6,383.54	0.92	0.53	0.74
16,645.00	91.60	0.48	10,620.77	6,478.91	265.19	6,477.51	0.77	0.74	0.21
16,739.00	89.50	0.98	10,619.87	6,572.89	266.39	6,571.48	2.30	-2.23	0.53
16,833.00	89.10	0.88	10,621.02	6,666.87	267.93	6,665.45	0.44	-0.43	-0.11
16,927.00	88.80	0.88	10,622.74	6,760.85	269.38	6,759.42	0.32	-0.32	0.00
17,021.00	89.30	359.98	10,624.30	6,854.83	270.09	6,853.40	1.10	0.53	-0.96
17,115.00	89.00	359.78	10,625.69	6,948.82	269.90	6,947.39	0.38	-0.32	-0.21
17,209.00	88.80	0.18	10,627.50	7,042.80	269.87	7,041.37	0.48	-0.21	0.43
17,303.00	88.50	359.28	10,629.71	7,136.77	269.44	7,135.34	1.01	-0.32	-0.96
17,397.00	91.70	359.28	10,629.55	7,230.75	268.26	7,229.33	3.40	3.40	0.00
17,491.00	91.40	359.18	10,627.01	7,324.71	267.01	7,323.29	0.34	-0.32	-0.11
17,585.00	91.30	359.38	10,624.79	7,418.68	265.83	7,417.26	0.24	-0.11	0.21
17,679.00	92.50	0.68	10,621.68	7,512.62	265.89	7,511.20	1.88	1.28	1.38
17,773.00	90.40	0.08	10,619.30	7,606.58	266.52	7,605.16	2.32	-2.23	-0.64
17,867.00	89.60	359.58	10,619.30	7,700.58	266.25	7,699.16	1.00	-0.85	-0.53
17,962.00	90.60	0.28	10,619.13	7,795.58	266.14	7,794.16	1.28	1.05	0.74
18,056.00	89.30	359.58	10,619.21	7,889.58	266.03	7,888.15	1.57	-1.38	-0.74
18,150.00	88.40	359.98	10,621.10	7,983.56	265.68	7,982.13	1.05	-0.96	0.43
18,157.49	88.32	359.95	10,621.31	7,991.04	265.67	7,989.62	1.15	-1.06	-0.43
Muy Wayno 18 Fed 102H LTP									
18,244.00	87.40	359.58	10,624.54	8,077.49	265.32	8,076.07	1.15	-1.06	-0.43
18,287.00	87.90	359.81	10,626.31	8,120.45	265.09	8,119.03	1.27	1.16	0.53
Wellpath Crosses LTP									
18,287.42	87.90	359.81	10,626.32	8,120.88	265.09	8,119.45	1.27	1.16	0.53

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Muy Wayno 18 Federal 102H - Slot 102H
Project:	Eddy County, NM (NAD27) NMEZgrid	TVD Reference:	3160+32 @ 3192.00usft (Patterson793)
Site:	Muy Wayno 18 Federal 102H	MD Reference:	3160+32 @ 3192.00usft (Patterson793)
Well:	Muy Wayno 18 Federal 102H	North Reference:	Grid
Wellbore:	102H L1_ST	Survey Calculation Method:	Minimum Curvature
Design:	102H L1_ST (AsDrilled)	Database:	STRYKER_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)
Muy Wayno 18 Fed 102H PBHL p2									
18,339.00	88.50	0.08	10,627.94	8,172.43	265.05	8,171.00	1.27	1.16	0.53
18,390.00	85.80	358.98	10,630.48	8,223.36	264.63	8,221.94	5.72	-5.29	-2.16
18,435.00	85.80	358.98	10,633.77	8,268.23	263.84	8,266.81	0.00	0.00	0.00
TD @ 52°FNL,641°FEL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Muy Wayno 18 Fed 102I	0.00	359.78	0.00	0.00	0.00	410,906.20	625,601.10	32.12904748	-103.92759374
- actual wellpath hits target center									
- Point									
Muy Wayno 18 Fed 102I	0.00	359.78	10,629.00	8,120.80	275.20	419,027.00	625,876.30	32.15136840	-103.92660569
- actual wellpath misses target center by 10.46usft at 18287.41usft MD (10626.32 TVD, 8120.86 N, 265.09 E)									
- Rectangle (sides W100.00 H7,412.00 D0.00)									
Muy Wayno 18 Fed 102I	0.00	359.78	10,629.00	7,990.80	275.90	418,897.00	625,877.00	32.15101103	-103.92660502
- actual wellpath misses target center by 12.80usft at 18157.46usft MD (10621.31 TVD, 7991.01 N, 265.67 E)									
- Point									
Muy Wayno 18 Fed 102I	0.00	359.78	10,629.00	701.30	312.80	411,607.50	625,913.90	32.13097209	-103.92657475
- actual wellpath misses target center by 11.79usft at 10864.96usft MD (10617.42 TVD, 703.23 N, 311.73 E)									
- Point									
Muy Wayno 18 Fed 102I	0.00	359.78	10,629.00	8,268.18	263.85	419,174.38	625,864.95	32.15177367	-103.92664057
- actual wellpath misses target center by 4.76usft at 18434.60usft MD (10633.74 TVD, 8267.83 N, 263.84 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,427.00	10,382.82	350.79	303.90	Wellpath Crosses Unit Line @ Heel
10,863.00	10,617.08	701.29	311.72	Wellpath Crosses HL @ Heel
18,287.00	10,626.31	8,120.45	265.09	Wellpath Crosses LTP
18,435.00	10,633.77	8,268.23	263.84	TD @ 52°FNL,641°FEL

Checked By: _____ Approved By: _____ Date: _____