



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **11/01/18** thru **03/22/19** conduct or supervise the taking of a **MWD Survey** from a depth of **184'** to a depth of **18745'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **XTO Energy Inc** for the **Muy Wayno 18 Federal #122H** API No. **30-015-44841** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

*13901 Hwy 105W, Conroe, Texas
77304
PH 936-539-9602*



Wellbenders

End Of Well Report

Rec'd 03/26/2020 - NMOCDD

Company: XTO Energy Eddy County, NM (Nad-27 / East Zone)	Local Co-ordinate Reference: Well #122H RKB=26' @ 3192.00usft (Patterson 225) RKB=26' @ 3192.00usft (Patterson 225) Grid Minimum Curvature WBDS_SQL_2
Project: Eddy County, NM (Nad-27 / East Zone)	TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:
Map System: US State Plane 1927 (Exact solution) Geo Datum: NAD 1927 (NADCON CONUS) Map Zone: New Mexico East 3001	System Datum: Mean Sea Level
Site Muy Wayno 18 Federal	
Site Position: From: Map Position Uncertainty: 0.00 usft	Northing: 410,905.90 usft Easting: 625,541.00 usft Slot Radius: 13.200 in Latitude: 32.129047 Longitude: -103.927788 Grid Convergence: 0.216 °
Well #122H	
Well Position +N/-S +E/-W 0.00 usft 0.00 usft 0.00 usft	Latitude: 32.129050 Longitude: -103.925316 Ground Level: 3,166.00 usft
Wellbore OH	
Magnetics Model Name Sample Date Declination Dip Angle Field Strength	IGRF2015 3/12/2019 6.923 59.897 47,668.24928163
Design OH	
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00	
Vertical Section: Depth From (TVD) (usft) 0.00	+N/-S (usft) 0.00 +E/-W (usft) 0.00 Direction (°) 359.72
Survey Program From (usft) 184.00 To (usft) 18,745.00 Survey #1 (OH)	Tool Name WBDS_IGRF Description OWSG MWD + IGRF or WMM



Wellbenders

End Of Well Report

Company: XTO Energy			Local Co-ordinate Reference:						Well #122H	
Project: Eddy County, NM (Nad-27 / East Zone)			TVD Reference:						RKB=26' @ 3192.00ust (Patterson 225)	
Site: Muy Wayno 18 Federal			MD Reference:						RKB=26' @ 3192.00ust (Patterson 225)	
Well: #122H			North Reference:						Grid	
Wellbore: OH			Survey Calculation Method:						Minimum Curvature	
Design: OH			Database:						WBDS_SQL_2	
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW 18 Fed #122H: SHL										
184.00	0.30	176.40	184.00	-0.48	0.03	-0.48	184.00	176.40	0.16	
303.00	0.30	349.20	303.00	-0.49	-0.01	-0.49	119.00	262.80	0.50	
387.00	0.30	280.50	387.00	-0.23	-0.27	-0.23	84.00	314.85	0.40	
483.00	0.40	319.60	483.00	0.07	-0.73	0.07	96.00	302.95	0.26	
635.00	0.70	357.20	634.99	1.40	-1.12	1.41	152.00	343.70	0.30	
730.00	0.80	16.80	729.98	2.62	-0.96	2.62	95.00	7.66	0.29	
825.00	1.00	24.40	824.97	4.01	-0.42	4.01	95.00	21.02	0.24	
945.00	1.20	25.80	944.95	6.09	0.56	6.09	120.00	25.16	0.17	
1,040.00	1.20	35.80	1,039.93	7.79	1.57	7.79	95.00	30.80	0.22	
1,134.00	1.10	17.00	1,133.91	9.46	2.41	9.44	94.00	26.81	0.41	
1,229.00	0.90	336.20	1,228.89	11.01	2.38	11.00	95.00	358.73	0.76	
1,324.00	1.00	289.10	1,323.88	11.96	1.29	11.96	95.00	311.34	0.80	
1,418.00	1.20	315.70	1,417.87	12.94	-0.17	12.94	94.00	303.63	0.58	
1,513.00	1.70	288.90	1,512.84	14.11	-2.20	14.12	95.00	299.95	0.87	
1,608.00	1.90	276.20	1,607.79	14.73	-5.10	14.76	95.00	282.20	0.47	
1,700.00	2.10	276.00	1,699.73	15.07	-8.29	15.11	92.00	276.10	0.22	
1,795.00	2.10	265.00	1,794.67	15.10	-11.75	15.16	95.00	270.50	0.42	
1,889.00	2.10	258.40	1,888.61	14.61	-15.16	14.68	94.00	261.70	0.26	
1,984.00	2.50	261.50	1,983.53	13.95	-18.91	14.04	95.00	260.08	0.44	
2,078.00	1.80	264.30	2,077.46	13.50	-22.41	13.61	94.00	262.67	0.75	
2,172.00	1.10	275.20	2,171.43	13.44	-24.78	13.56	94.00	268.43	0.80	
2,266.00	1.10	281.30	2,265.42	13.69	-26.56	13.82	94.00	278.25	0.12	
2,360.00	1.00	286.20	2,359.40	14.10	-28.23	14.24	94.00	283.63	0.14	
2,454.00	0.90	286.90	2,453.39	14.54	-29.73	14.69	94.00	286.53	0.11	
2,546.00	0.70	278.40	2,545.38	14.84	-30.97	14.99	92.00	283.18	0.25	



Wellbenders

End Of Well Report

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Project: Eddy County, NM (Nad-27 / East Zone)			TVD Reference: RKB=26' @ 3192.00ustf (Patterson 225)							
Site: Muy Wayno 18 Federal			MD Reference: RKB=26' @ 3192.00ustf (Patterson 225)							
Well: #122H			North Reference: Grid							
Wellbore: OH			Survey Calculation Method: Minimum Curvature							
Design: OH			Database: WBDS_SQL_2							
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
2,640.00	0.70	264.20	2,639.37	14.86	-32.11	15.02	94.00	271.30	0.18	
2,734.00	0.50	241.20	2,733.37	14.61	-33.04	14.77	94.00	254.64	0.33	
2,828.00	0.90	159.40	2,827.36	13.72	-33.14	13.88	94.00	186.40	1.03	
2,922.00	1.60	140.10	2,921.34	12.02	-32.04	12.18	94.00	147.02	0.86	
3,016.00	1.30	145.40	3,015.31	10.14	-30.59	10.28	94.00	142.48	0.35	
3,110.00	2.20	143.40	3,109.26	7.81	-28.91	7.95	94.00	144.14	0.96	
3,270.00	2.80	147.10	3,269.11	2.06	-24.96	2.18	160.00	145.47	0.39	
3,298.00	3.10	149.80	3,297.07	0.83	-24.21	0.95	28.00	148.52	1.18	
3,485.00	3.00	147.50	3,483.81	-7.66	-19.03	-7.57	187.00	148.67	0.08	
3,579.00	0.90	149.30	3,577.75	-10.37	-17.33	-10.29	94.00	147.92	2.23	
3,673.00	0.80	140.90	3,671.74	-11.52	-16.54	-11.44	94.00	145.35	0.17	
3,768.00	0.90	142.42	3,766.73	-12.62	-15.67	-12.55	95.00	141.70	0.11	
3,862.00	1.00	118.50	3,860.72	-13.60	-14.50	-13.53	94.00	129.82	0.43	
3,957.00	1.00	115.50	3,955.70	-14.35	-13.02	-14.29	95.00	117.00	0.06	
4,051.00	1.10	121.50	4,049.69	-15.18	-11.51	-15.12	94.00	118.64	0.16	
4,146.00	1.00	114.50	4,144.67	-16.00	-9.98	-15.95	95.00	118.17	0.17	
4,241.00	1.10	108.80	4,239.65	-16.63	-8.36	-16.59	95.00	111.51	0.15	
4,336.00	0.90	107.70	4,334.64	-17.16	-6.79	-17.12	95.00	108.30	0.21	
4,430.00	0.70	108.90	4,428.63	-17.57	-5.54	-17.54	94.00	108.23	0.21	
4,524.00	0.60	77.60	4,522.62	-17.65	-4.52	-17.62	94.00	94.48	0.39	
4,618.00	0.30	86.80	4,616.62	-17.53	-3.79	-17.51	94.00	80.66	0.33	
4,711.00	0.20	85.60	4,709.62	-17.50	-3.39	-17.48	93.00	86.32	0.11	
4,805.00	0.50	102.10	4,803.62	-17.57	-2.82	-17.56	94.00	97.41	0.33	
4,900.00	0.40	76.70	4,898.62	-17.58	-2.10	-17.57	95.00	90.83	0.23	
4,995.00	0.20	143.50	4,993.61	-17.64	-1.67	-17.63	95.00	97.70	0.39	
5,090.00	0.20	282.80	5,088.61	-17.74	-1.74	-17.73	95.00	213.15	0.39	
5,184.00	0.20	170.00	5,182.61	-17.86	-1.87	-17.85	94.00	226.40	0.35	



Wellbenders

End Of Well Report

Company: XTO Energy		Local Co-ordinate Reference:							Well #122H	
Project: Eddy County, NM (Nad-27 / East Zone)		TVD Reference:							RKB=26' @ 3192.00ust (Patterson 225)	
Site: Muy Wayno 18 Federal		MD Reference:							RKB=26' @ 3192.00ust (Patterson 225)	
Well: #122H		North Reference:							Grid	
Wellbore: OH		Survey Calculation Method:							Minimum Curvature	
Design: OH		Database:							WBDS_SQL_2	
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
5,279.00	0.60	210.90	5,277.61	-18.45	-2.09	-18.44	95.00	201.01	0.49	
5,373.00	0.60	186.50	5,371.61	-19.36	-2.40	-19.35	94.00	198.70	0.27	
5,468.00	0.90	201.30	5,466.60	-20.55	-2.73	-20.54	95.00	195.39	0.37	
5,563.00	1.00	199.80	5,561.59	-22.03	-3.28	-22.01	95.00	200.51	0.11	
5,657.00	1.10	191.80	5,655.57	-23.68	-3.74	-23.67	94.00	195.61	0.19	
5,751.00	1.20	205.90	5,749.55	-25.45	-4.36	-25.43	94.00	199.16	0.32	
5,845.00	1.10	205.10	5,843.53	-27.16	-5.17	-27.13	94.00	205.52	0.11	
5,939.00	1.10	213.70	5,937.51	-28.72	-6.06	-28.69	94.00	209.40	0.18	
6,034.00	1.50	214.30	6,032.49	-30.51	-7.26	-30.47	95.00	214.05	0.42	
6,128.00	1.70	217.90	6,126.45	-32.63	-8.81	-32.58	94.00	216.21	0.24	
6,222.00	1.60	228.00	6,220.41	-34.60	-10.64	-34.55	94.00	222.80	0.33	
6,316.00	1.50	229.10	6,314.38	-36.29	-12.55	-36.23	94.00	228.53	0.11	
6,411.00	1.40	220.90	6,409.35	-37.98	-14.25	-37.91	95.00	225.14	0.24	
6,505.00	1.40	215.70	6,503.32	-39.78	-15.67	-39.70	94.00	218.30	0.14	
6,601.00	1.60	198.30	6,599.29	-42.00	-16.78	-41.92	96.00	206.42	0.52	
6,696.00	1.80	198.30	6,694.25	-44.68	-17.66	-44.59	95.00	198.30	0.21	
6,789.00	2.00	200.30	6,787.20	-47.59	-18.68	-47.50	93.00	199.35	0.23	
6,884.00	1.60	195.50	6,882.15	-50.42	-19.61	-50.32	95.00	198.17	0.45	
6,979.00	0.60	264.40	6,977.13	-51.75	-20.46	-51.65	95.00	212.63	1.57	
7,074.00	0.70	259.90	7,072.13	-51.90	-21.53	-51.79	95.00	261.98	0.12	
7,169.00	0.50	268.20	7,167.12	-52.01	-22.51	-51.90	95.00	263.36	0.23	
7,264.00	0.80	240.40	7,262.12	-52.35	-23.50	-52.24	95.00	251.03	0.45	
7,359.00	0.70	58.10	7,357.11	-52.37	-23.59	-52.26	95.00	256.01	1.58	
7,454.00	1.10	43.30	7,452.10	-51.40	-22.47	-51.29	95.00	49.05	0.48	
7,549.00	1.10	41.30	7,547.08	-50.06	-21.24	-49.95	95.00	42.30	0.04	
7,641.00	1.30	24.80	7,639.06	-48.44	-20.22	-48.35	92.00	32.36	0.43	
7,735.00	0.70	27.10	7,733.05	-46.97	-19.51	-46.87	94.00	25.60	0.64	



Wellbenders

End Of Well Report

Company: XTO Energy			Local Co-ordinate Reference:						
Project: Eddy County, NM (Nad-27 / East Zone)			TVD Reference:						
Site: Muy Wayno 18 Federal			MD Reference:						
Well: #122H			North Reference:						
Wellbore: OH			Survey Calculation Method:						
Design: OH			Database:						
			Well #122H						
			RKB=26' @ 3192.00ustf (Patterson 225)						
			RKB=26' @ 3192.00ustf (Patterson 225)						
			Grid						
			Minimum Curvature						
			WBDS_SQL_2						
Survey									
MD (ustft)	Inc (°)	Azi (azimuth) (°)	TVD (ustft)	N/S (ustft)	E/W (ustft)	V. Sec (ustft)	CL (ustft)	CL Azi (°)	DLeg (°/100ft)
7,830.00	0.20	141.00	7,828.05	-46.58	-19.14	-46.48	95.00	43.56	0.84
7,925.00	0.40	133.00	7,923.05	-46.93	-18.80	-46.84	95.00	135.66	0.21
8,020.00	0.70	133.00	8,018.04	-47.55	-18.13	-47.47	95.00	133.00	0.32
8,114.00	0.70	233.20	8,112.04	-48.29	-18.17	-48.20	94.00	183.10	1.14
8,205.00	1.20	251.10	8,203.02	-48.93	-19.52	-48.84	91.00	244.52	0.63
8,299.00	1.60	257.90	8,297.00	-49.53	-21.73	-49.42	94.00	254.99	0.46
8,393.00	1.50	243.60	8,390.96	-50.35	-24.12	-50.23	94.00	250.98	0.42
8,492.00	1.00	254.00	8,489.94	-51.16	-26.11	-51.03	99.00	247.76	0.55
8,587.00	1.10	245.40	8,584.92	-51.77	-27.73	-51.63	95.00	249.49	0.20
8,681.00	1.20	243.20	8,678.90	-52.59	-29.43	-52.45	94.00	244.25	0.12
8,776.00	2.00	234.90	8,773.87	-53.99	-31.68	-53.84	95.00	238.01	0.87
8,870.00	1.90	217.20	8,867.81	-56.18	-33.96	-56.01	94.00	226.28	0.65
8,964.00	2.40	197.70	8,961.75	-59.29	-35.50	-59.12	94.00	206.31	0.94
9,058.00	1.00	173.40	9,055.70	-61.98	-36.01	-61.81	94.00	190.61	1.64
9,153.00	0.60	169.20	9,150.70	-63.29	-35.82	-63.12	95.00	171.83	0.43
9,247.00	1.40	204.60	9,244.68	-64.82	-36.20	-64.64	94.00	194.17	1.04
9,342.00	1.30	210.40	9,339.65	-66.81	-37.23	-66.62	95.00	207.39	0.18
9,436.00	0.90	199.90	9,433.64	-68.42	-38.02	-68.23	94.00	206.11	0.47
9,531.00	1.00	163.00	9,528.62	-69.91	-38.03	-69.73	95.00	180.44	0.64
9,626.00	1.20	178.30	9,623.61	-71.70	-37.76	-71.52	95.00	171.35	0.37
9,721.00	2.40	201.50	9,718.56	-74.55	-38.46	-74.36	95.00	193.81	1.45
9,815.00	1.10	231.20	9,812.52	-76.94	-39.89	-76.75	94.00	210.73	1.64
9,909.00	1.50	264.70	9,906.49	-77.62	-41.81	-77.42	94.00	250.60	0.90
10,004.00	1.10	276.60	10,001.47	-77.63	-43.96	-77.42	95.00	269.73	0.51
10,098.00	1.30	291.40	10,095.45	-77.14	-45.85	-76.92	94.00	284.62	0.39
10,116.00	1.50	280.50	10,113.44	-77.02	-46.27	-76.80	18.00	285.56	1.85
10,144.00	1.40	274.50	10,141.43	-76.93	-46.97	-76.70	28.00	277.60	0.65



Wellbenders

End Of Well Report

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10,238.00	7.30	339.90	10,235.15	-71.22	-50.17	-70.98	94.00	330.71	7.27
10,286.00	13.30	343.80	10,282.36	-63.05	-52.76	-62.79	48.00	342.41	12.58
10,333.00	18.10	346.70	10,327.59	-50.75	-55.95	-50.47	47.00	345.47	10.35
10,380.00	22.60	353.50	10,371.65	-34.66	-58.66	-34.37	47.00	350.46	10.80
10,427.00	27.30	356.80	10,414.25	-14.91	-60.28	-14.62	47.00	355.30	10.43
10,474.00	30.20	358.80	10,455.46	7.67	-61.13	7.97	47.00	357.85	6.50
10,522.00	34.30	0.00	10,496.04	33.28	-61.38	33.58	48.00	359.43	8.64
10,569.00	37.70	1.10	10,534.06	60.90	-61.11	61.20	47.00	0.57	7.36
10,616.00	41.60	2.60	10,570.24	90.87	-60.12	91.16	47.00	1.88	8.54
10,663.00	44.90	3.20	10,604.47	123.02	-58.49	123.31	47.00	2.91	7.08
10,710.00	48.00	3.10	10,636.85	157.03	-56.62	157.31	47.00	3.15	6.60
10,758.00	51.30	3.70	10,667.93	193.54	-54.44	193.81	48.00	3.41	6.94
10,799.00	54.40	5.00	10,692.68	226.12	-51.96	226.37	41.00	4.36	7.97
10,852.00	57.70	6.00	10,722.28	269.88	-47.74	270.11	53.00	5.51	6.42
10,899.00	57.60	6.60	10,747.43	309.34	-43.38	309.55	47.00	6.30	1.10
10,946.00	60.80	4.60	10,771.49	349.51	-39.45	349.70	47.00	5.58	7.73
10,994.00	64.60	4.40	10,793.50	392.03	-36.11	392.20	48.00	4.50	7.93
11,042.00	67.80	3.30	10,812.87	435.84	-33.17	436.00	48.00	3.84	6.99
11,089.00	72.50	2.90	10,828.83	479.97	-30.78	480.12	47.00	3.10	10.03
11,136.00	77.80	3.40	10,840.87	525.32	-28.28	525.45	47.00	3.15	11.32
11,183.00	81.40	3.90	10,849.35	571.44	-25.34	571.56	47.00	3.65	7.73
11,219.30	84.42	3.82	10,853.83	607.38	-22.91	607.48	36.30	3.86	8.34
MW 18 Fed #122H: LP - Plan #1									
11,231.00	85.40	3.80	10,854.87	619.01	-22.14	619.11	11.70	3.81	8.34
11,312.21	88.65	3.64	10,859.08	699.93	-16.87	700.00	81.21	3.72	4.00
MW 18 Fed #122H: FTP									
11,319.00	88.92	3.63	10,859.23	706.70	-16.44	706.77	6.79	3.64	4.00



Wellbenders

End Of Well Report

Company: XTO Energy			Local Co-ordinate Reference:						
Project: Eddy County, NM (Nad-27 / East Zone)			TVD Reference:						
Site: Muy Wayno 18 Federal			MD Reference:						
Well: #122H			North Reference:						
Wellbore: OH			Survey Calculation Method:						
Design: OH			Database:						
			Well #122H						
			RKB=26' @ 3192.00ust (Patterson 225)						
			RKB=26' @ 3192.00ust (Patterson 225)						
			Grid						
			Minimum Curvature						
			WBDS_SQL_2						
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
11,414.00	87.87	2.40	10,861.89	801.53	-11.45	801.57	95.00	3.02	1.70
11,508.00	88.09	1.52	10,865.20	895.41	-8.23	895.44	94.00	1.96	0.96
11,602.00	87.82	1.17	10,868.55	989.33	-6.03	989.35	94.00	1.35	0.47
11,696.00	85.32	359.50	10,874.18	1,083.15	-5.48	1,083.16	94.00	0.34	3.20
11,790.00	85.32	0.11	10,881.85	1,176.83	-5.80	1,176.85	94.00	359.80	0.65
11,884.00	88.70	0.11	10,886.75	1,270.69	-5.62	1,270.70	94.00	0.11	3.60
11,978.00	92.13	2.40	10,886.07	1,364.65	-3.56	1,364.65	94.00	1.25	4.39
12,072.00	90.73	1.52	10,883.72	1,458.56	-0.35	1,458.54	94.00	1.96	1.76
12,166.00	91.21	1.61	10,882.13	1,552.51	2.22	1,552.48	94.00	1.56	0.52
12,261.00	89.63	0.47	10,881.44	1,647.49	3.94	1,647.45	95.00	1.04	2.05
12,355.00	90.90	0.03	10,881.00	1,741.48	4.35	1,741.44	94.00	0.25	1.43
12,449.00	90.68	0.99	10,879.71	1,835.47	5.19	1,835.42	94.00	0.51	1.05
12,543.00	88.79	0.99	10,880.14	1,929.45	6.82	1,929.39	94.00	0.99	2.01
12,637.00	90.11	0.29	10,881.04	2,023.44	7.87	2,023.37	94.00	0.64	1.59
12,731.00	92.35	0.73	10,879.03	2,117.40	8.70	2,117.34	94.00	0.51	2.43
12,826.00	91.25	1.61	10,876.04	2,212.34	10.64	2,212.26	95.00	1.17	1.48
12,921.00	91.08	358.36	10,874.11	2,307.30	10.62	2,307.22	95.00	359.98	3.43
13,015.00	89.71	357.39	10,873.46	2,401.23	7.13	2,401.17	94.00	357.87	1.79
13,110.00	88.62	355.19	10,874.85	2,496.02	0.98	2,495.98	95.00	356.29	2.58
13,204.00	89.45	357.04	10,876.43	2,589.78	-5.38	2,589.78	94.00	356.12	2.16
13,298.00	92.44	358.62	10,874.88	2,683.69	-8.94	2,683.70	94.00	357.83	3.60
13,392.00	91.87	359.15	10,871.34	2,777.60	-10.77	2,777.62	94.00	358.89	0.83
13,486.00	89.85	358.71	10,869.93	2,871.57	-12.52	2,871.60	94.00	358.93	2.20
13,580.00	92.75	0.03	10,867.80	2,965.53	-13.56	2,965.56	94.00	359.37	3.39
13,674.00	91.69	359.59	10,864.16	3,059.46	-13.87	3,059.49	94.00	359.81	1.22
13,768.00	91.87	359.67	10,861.24	3,153.41	-14.48	3,153.44	94.00	359.63	0.21
13,861.00	91.21	359.76	10,858.74	3,246.37	-14.94	3,246.41	93.00	359.72	0.72



Wellbenders

End Of Well Report

Company: XTO Energy		Local Co-ordinate Reference:				Well #122H			
Project: Eddy County, NM (Nad-27 / East Zone)		TVD Reference:				RKB=26' @ 3192.00ust (Patterson 225)			
Site: Muy Wayno 18 Federal		MD Reference:				RKB=26' @ 3192.00ust (Patterson 225)			
Well: #122H		North Reference:				Grid			
Wellbore: OH		Survey Calculation Method:				Minimum Curvature			
Design: OH		Database:				WBDS_SQL_2			
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
13,955.00	89.36	359.24	10,858.27	3,340.37	-15.76	3,340.40	94.00	359.50	2.04
14,049.00	88.35	359.50	10,860.15	3,434.34	-16.79	3,434.38	94.00	359.37	1.11
14,143.00	89.19	359.85	10,862.17	3,528.32	-17.33	3,528.36	94.00	359.68	0.97
14,237.00	92.09	0.91	10,861.12	3,622.30	-16.70	3,622.33	94.00	0.38	3.28
14,331.00	92.13	1.26	10,857.66	3,716.22	-14.92	3,716.24	94.00	1.08	0.37
14,425.00	91.96	1.26	10,854.30	3,810.13	-12.86	3,810.15	94.00	1.26	0.18
14,520.00	91.56	1.61	10,851.39	3,905.06	-10.48	3,905.06	95.00	1.44	0.56
14,614.00	91.08	1.17	10,849.22	3,999.00	-8.20	3,999.00	94.00	1.39	0.69
14,708.00	91.34	0.82	10,847.24	4,092.97	-6.57	4,092.95	94.00	1.00	0.46
14,802.00	88.66	0.38	10,847.24	4,186.96	-5.58	4,186.93	94.00	0.60	2.89
14,895.00	88.09	359.76	10,849.87	4,279.92	-5.47	4,279.89	93.00	0.07	0.91
14,989.00	85.19	358.53	10,855.38	4,373.73	-6.87	4,373.71	94.00	359.15	3.35
15,083.00	86.64	359.15	10,862.08	4,467.47	-8.77	4,467.46	94.00	358.84	1.68
15,177.00	86.68	0.47	10,867.55	4,561.31	-9.08	4,561.30	94.00	359.81	1.40
15,270.00	92.48	3.10	10,868.24	4,654.21	-6.18	4,654.19	93.00	1.79	6.85
15,363.00	93.41	4.25	10,863.46	4,746.90	-0.23	4,746.84	93.00	3.67	1.59
15,458.00	92.75	0.64	10,858.35	4,841.66	3.82	4,841.58	95.00	2.44	3.86
15,551.00	88.92	358.88	10,857.00	4,934.63	3.43	4,934.55	93.00	359.76	4.53
15,645.00	91.69	3.72	10,856.50	5,028.56	5.56	5,028.48	94.00	1.30	5.93
15,740.00	92.13	0.55	10,853.33	5,123.43	9.09	5,123.33	95.00	2.14	3.37
15,834.00	93.41	359.76	10,848.79	5,217.32	9.35	5,217.21	94.00	0.16	1.60
15,928.00	88.48	357.04	10,847.24	5,311.23	6.72	5,311.14	94.00	358.40	5.99
16,023.00	86.64	356.51	10,851.28	5,405.99	1.38	5,405.92	95.00	356.78	2.02
16,117.00	86.95	358.71	10,856.54	5,499.76	-2.53	5,499.70	94.00	357.61	2.36
16,211.00	88.35	359.50	10,860.39	5,593.66	-4.00	5,593.62	94.00	359.11	1.71
16,306.00	89.05	0.29	10,862.55	5,688.64	-4.17	5,688.59	95.00	359.90	1.11
16,400.00	85.85	359.59	10,866.73	5,782.53	-4.27	5,782.48	94.00	359.94	3.48



Wellbenders

End Of Well Report

Company: XTO Energy			Local Co-ordinate Reference:				Well #122H			
Project: Eddy County, NM (Nad-27 / East Zone)			TVD Reference:				RKB=26' @ 3192.00ust (Patterson 225)			
Site: Muy Wayno 18 Federal			MD Reference:				RKB=26' @ 3192.00ust (Patterson 225)			
Well: #122H			North Reference:				Grid			
Wellbore: OH			Survey Calculation Method:				Minimum Curvature			
Design: OH			Database:				WBDS_SQL_2			
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
16,494.00	88.48	0.11	10,871.38	5,876.41	-4.51	5,876.36	94.00	359.85	2.85	
16,589.00	87.43	359.85	10,874.77	5,971.35	-4.55	5,971.30	95.00	359.98	1.14	
16,683.00	89.01	0.82	10,877.69	6,065.30	-4.00	6,065.24	94.00	0.34	1.97	
16,777.00	90.46	1.61	10,878.12	6,159.27	-2.00	6,159.21	94.00	1.22	1.76	
16,871.00	87.16	0.20	10,880.07	6,253.22	-0.52	6,253.15	94.00	0.91	3.82	
16,965.00	89.10	0.82	10,883.14	6,347.16	0.32	6,347.09	94.00	0.51	2.17	
17,060.00	87.60	359.32	10,885.88	6,442.12	0.43	6,442.04	95.00	0.07	2.23	
17,154.00	89.32	359.32	10,888.40	6,536.07	-0.68	6,536.00	94.00	359.32	1.83	
17,248.00	89.76	359.41	10,889.16	6,630.07	-1.72	6,629.99	94.00	359.37	0.48	
17,342.00	95.91	1.34	10,884.51	6,723.90	-1.11	6,723.82	94.00	0.37	6.86	
17,436.00	95.96	0.99	10,874.79	6,817.38	0.79	6,817.29	94.00	1.17	0.37	
17,530.00	94.37	0.99	10,866.33	6,910.98	2.41	6,910.88	94.00	0.99	1.69	
17,625.00	92.53	0.38	10,860.61	7,005.79	3.54	7,005.69	95.00	0.68	2.04	
17,719.00	90.24	0.73	10,858.34	7,099.76	4.45	7,099.65	94.00	0.56	2.46	
17,813.00	86.81	0.64	10,860.76	7,193.70	5.57	7,193.59	94.00	0.69	3.65	
17,906.00	89.05	0.55	10,864.12	7,286.63	6.54	7,286.51	93.00	0.59	2.41	
18,001.00	90.24	359.94	10,864.71	7,381.63	6.94	7,381.50	95.00	0.24	1.41	
18,094.00	89.32	359.67	10,865.06	7,474.62	6.63	7,474.50	93.00	359.81	1.03	
18,188.00	89.41	0.91	10,866.10	7,568.62	7.10	7,568.49	94.00	0.29	1.32	
18,282.00	90.51	0.64	10,866.17	7,662.61	8.37	7,662.47	94.00	0.77	1.20	
18,376.00	90.59	0.47	10,865.27	7,756.60	9.29	7,756.46	94.00	0.56	0.20	
18,470.00	88.22	0.11	10,866.24	7,850.58	9.76	7,850.44	94.00	0.29	2.55	
18,564.00	86.86	359.41	10,870.28	7,944.49	9.37	7,944.35	94.00	359.76	1.63	
18,607.23	87.75	0.54	10,872.31	7,987.68	9.35	7,987.54	43.23	359.98	3.32	
MW 18 Fed #122H: LTP										
18,658.00	88.79	1.87	10,873.85	8,038.41	10.42	8,038.26	50.77	1.21	3.32	
18,688.00	89.05	2.58	10,874.41	8,068.38	11.58	8,068.23	30.00	2.23	2.52	



Wellbenders
End Of Well Report

Company:
Project:
Site:
Well:
Wellbore:
Design:

XTO Energy
Eddy County, NM (Nad-27 / East Zone)
Muy Wayno 18 Federal
#122H
OH
OH

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

Well #122H
RKB=26' @ 3192.00ust (Patterson 225)
RKB=26' @ 3192.00ust (Patterson 225)
Grid
Minimum Curvature
WBDS_SQL_2

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
18,736.11	89.05	2.58	10,875.21	8,116.44	13.75	8,116.27	48.11	2.58	0.00
MW 18 Fed #122H: PBHL									
18,745.00	89.05	2.58	10,875.36	8,125.31	14.15	8,125.15	8.89	2.58	0.00
Final Station Closure Distance= 8125.33 /Direction= 0.10 - Projection to Bit: 18745.00' MD/ 10875.36' TVD - TD: Latitude = 32.151386 / Longitude = -103.925171 - TD: Y= 419035.21 / X= 626320.25 - Final Bit Pr									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
18,745.00	10,875.36	8,125.31	14.15	Final Station Closure Distance= 8125.33 /Direction= 0.10
18,745.00	10,875.36	8,125.31	14.15	Projection to Bit: 18745.00' MD/ 10875.36' TVD
18,745.00	10,875.36	8,125.31	14.15	TD: Latitude = 32.151386 / Longitude = -103.925171
18,745.00	10,875.36	8,125.31	14.15	TD: Y= 419035.21 / X= 626320.25

Checked By: _____

Approved By: _____

Date: _____