



**Provide Signature Page for
Directional Survey**

Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Southern Comfort State 24-28-25

TB #6H

30-015-44832

OH

**NM OIL CONSERVATION
ARTESIA DISTRICT**

DEC 03 2018

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Survey: SDI Survey #1

Standard Survey Report

16 July, 2018





Scientific Drilling, Intl

Survey Report



Company: Marathon Oil Permian, LLC
Project: Eddy County, NM (NAD27)
Site: Southern Comfort State 24-28-25
Well: TB #6H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well TB #6H
TVD Reference: KB = 26.5' @ 2945.50usft (H&P 498)
MD Reference: KB = 26.5' @ 2945.50usft (H&P 498)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Project	Eddy County, NM (NAD27)		
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		Using geodetic scale factor

Site	Southern Comfort State 24-28-25		
Site Position:		Northing:	432,128.89 usft
From:	Map	Easting:	591,559.01 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 15.695 N
		Longitude:	104° 2' 14.542 W
		Grid Convergence:	0.16 °

Well	TB #6H		
Well Position	+N/-S	0.00 usft	Northing: 432,128.89 usft
	+E/-W	0.00 usft	Easting: 591,589.01 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 11' 15.694 N
		Longitude:	104° 2' 14.193 W
		Ground Level:	2,919.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/26/2018	7.15	59.97	48,017

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	180.00	

Survey Program	Date 7/12/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	15,213.00	SDI Survey #1 (OH)	MWD+IFR+MS	MWD + IFR + Multi Station	

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176.00	0.91	173.93	175.99	-1.39	0.15	1.39	0.52	0.52	0.00
237.00	1.20	167.71	236.98	-2.50	0.33	2.50	0.51	0.48	-10.20
329.00	1.44	165.39	328.96	-4.56	0.83	4.56	0.27	0.26	-2.52
386.00	1.80	166.85	385.93	-6.12	1.22	6.12	0.64	0.63	2.56
520.00	1.64	149.86	519.88	-9.83	2.66	9.83	0.40	-0.12	-12.68
612.00	1.13	92.16	611.85	-11.00	4.23	11.00	1.53	-0.55	-62.72
704.00	1.85	28.92	703.83	-9.73	5.85	9.73	1.82	0.78	-68.74
796.00	2.42	22.19	795.76	-6.64	7.30	6.64	0.68	0.62	-7.32
888.00	0.98	10.05	887.72	-4.06	8.17	4.06	1.60	-1.57	-13.20



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980.00	0.48	296.07	979.71	-3.12	7.96	3.12	1.05	-0.54	-80.41
1,075.00	0.62	316.53	1,074.71	-2.57	7.25	2.57	0.25	0.15	21.54
1,169.00	0.71	290.37	1,168.70	-2.00	6.36	2.00	0.33	0.10	-27.83
1,263.00	0.68	296.25	1,262.70	-1.55	5.31	1.55	0.08	-0.03	6.26
1,358.00	0.81	273.44	1,357.69	-1.26	4.13	1.26	0.34	0.14	-24.01
1,452.00	0.88	284.05	1,451.68	-1.05	2.77	1.05	0.18	0.07	11.29
1,547.00	0.32	347.80	1,546.67	-0.61	2.01	0.61	0.83	-0.59	67.11
1,642.00	0.89	55.22	1,641.67	0.07	2.56	-0.07	0.87	0.60	70.97
1,736.00	1.55	62.08	1,735.65	1.08	4.28	-1.08	0.72	0.70	7.30
1,831.00	1.65	62.30	1,830.61	2.32	6.63	-2.32	0.11	0.11	0.23
1,926.00	2.15	76.69	1,925.56	3.37	9.57	-3.37	0.72	0.53	15.15
2,020.00	2.45	104.82	2,019.48	3.26	13.23	-3.26	1.23	0.32	29.93
2,115.00	1.90	150.22	2,114.42	1.37	15.98	-1.37	1.85	-0.58	47.79
2,209.00	1.92	167.36	2,208.37	-1.52	17.09	1.52	0.61	0.02	18.23
2,303.00	2.79	151.45	2,302.29	-5.06	18.53	5.06	1.15	0.93	-16.93
2,398.00	2.96	135.27	2,397.17	-8.84	21.36	8.84	0.87	0.18	-17.03
2,492.00	2.07	109.02	2,491.08	-11.11	24.68	11.11	1.53	-0.95	-27.93
2,587.00	1.36	7.97	2,586.06	-10.56	26.46	10.56	2.83	-0.75	-106.37
2,780.00	1.24	7.12	2,779.01	-6.22	27.03	6.22	0.06	-0.06	-0.44
2,875.00	1.29	4.04	2,873.98	-4.13	27.23	4.13	0.09	0.05	-3.24
2,970.00	1.38	0.71	2,968.96	-1.92	27.32	1.92	0.13	0.09	-3.51
3,159.00	2.22	21.85	3,157.87	3.75	28.71	-3.75	0.56	0.44	11.19
3,253.00	2.39	23.26	3,251.79	7.24	30.17	-7.24	0.19	0.18	1.50
3,348.00	3.90	52.44	3,346.65	11.03	33.51	-11.03	2.27	1.59	30.72
3,443.00	6.06	60.21	3,441.29	15.50	40.42	-15.50	2.38	2.27	8.18
3,537.00	7.45	65.48	3,534.63	20.49	50.27	-20.49	1.62	1.48	5.61
3,726.00	10.89	63.39	3,721.19	33.58	77.39	-33.58	1.83	1.82	-1.11
3,821.00	11.15	60.81	3,814.44	42.08	93.44	-42.08	0.59	0.27	-2.72
3,915.00	11.17	66.13	3,906.66	50.19	109.70	-50.19	1.10	0.02	5.66
4,010.00	11.07	65.28	3,999.88	57.73	126.40	-57.73	0.20	-0.11	-0.89
4,104.00	11.39	78.19	4,092.10	63.40	143.68	-63.40	2.69	0.34	13.73
4,199.00	10.81	76.57	4,185.32	67.39	161.53	-67.39	0.69	-0.61	-1.71
4,293.00	10.63	78.34	4,277.68	71.19	178.59	-71.19	0.40	-0.19	1.88
4,387.00	11.43	86.61	4,369.95	73.50	196.38	-73.50	1.88	0.85	8.80
4,482.00	11.22	85.72	4,463.10	74.74	215.00	-74.74	0.29	-0.22	-0.94
4,576.00	11.40	84.87	4,555.27	76.26	233.37	-76.26	0.26	0.19	-0.90
4,671.00	11.33	84.44	4,648.41	78.00	252.01	-78.00	0.12	-0.07	-0.45
4,765.00	11.22	83.92	4,740.59	79.86	270.29	-79.86	0.16	-0.12	-0.55
4,860.00	10.31	82.87	4,833.92	81.90	287.92	-81.90	0.98	-0.96	-1.11
4,954.00	9.71	81.52	4,926.49	84.11	304.11	-84.11	0.69	-0.64	-1.44
5,049.00	9.12	80.26	5,020.21	86.57	319.45	-86.57	0.66	-0.62	-1.33
5,143.00	8.36	80.58	5,113.12	88.94	333.53	-88.94	0.81	-0.81	0.34
5,238.00	9.14	76.91	5,207.01	91.78	347.70	-91.78	1.01	0.82	-3.86
5,332.00	9.44	78.44	5,299.78	95.02	362.52	-95.02	0.41	0.32	1.63



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5,427.00	10.40	78.49	5,393.36	98.29	378.56	-98.29	1.01	1.01	0.05
5,521.00	9.63	78.16	5,485.92	101.60	394.57	-101.60	0.82	-0.82	-0.35
5,616.00	9.29	77.61	5,579.63	104.87	409.83	-104.87	0.37	-0.36	-0.58
5,710.00	11.22	81.30	5,672.13	107.88	426.28	-107.88	2.17	2.05	3.93
5,805.00	11.20	81.26	5,765.32	110.68	444.54	-110.68	0.02	-0.02	-0.04
5,899.00	11.11	80.80	5,857.54	113.52	462.50	-113.52	0.13	-0.10	-0.49
5,994.00	10.50	80.26	5,950.85	116.45	480.07	-116.45	0.65	-0.64	-0.57
6,088.00	9.77	79.39	6,043.39	119.37	496.35	-119.37	0.79	-0.78	-0.93
6,183.00	8.76	78.84	6,137.15	122.25	511.37	-122.25	1.07	-1.06	-0.58
6,277.00	8.06	78.36	6,230.14	124.96	524.85	-124.96	0.75	-0.74	-0.51
6,372.00	7.47	76.08	6,324.26	127.79	537.36	-127.79	0.70	-0.62	-2.40
6,466.00	6.23	74.13	6,417.59	130.66	548.20	-130.66	1.34	-1.32	-2.07
6,561.00	6.24	76.90	6,512.03	133.24	558.19	-133.24	0.32	0.01	2.92
6,656.00	7.20	78.41	6,606.38	135.60	569.05	-135.60	1.03	1.01	1.59
6,750.00	6.86	77.14	6,699.67	138.04	580.29	-138.04	0.40	-0.36	-1.35
6,939.00	5.90	72.05	6,887.50	143.54	600.54	-143.54	0.59	-0.51	-2.69
7,033.00	8.01	64.27	6,980.80	147.88	611.04	-147.88	2.45	2.24	-8.28
7,128.00	9.82	60.95	7,074.65	154.68	624.08	-154.68	1.98	1.91	-3.49
7,222.00	9.13	63.29	7,167.37	161.93	637.75	-161.93	0.84	-0.73	2.49
7,317.00	9.32	66.49	7,261.14	168.39	651.54	-168.39	0.58	0.20	3.37
7,411.00	8.46	65.32	7,354.01	174.31	664.80	-174.31	0.93	-0.91	-1.24
7,506.00	8.22	65.32	7,448.01	180.06	677.32	-180.06	0.25	-0.25	0.00
7,601.00	7.02	64.90	7,542.17	185.36	688.75	-185.36	1.26	-1.26	-0.44
7,695.00	5.82	67.42	7,635.58	189.63	698.35	-189.63	1.31	-1.28	2.68
7,789.00	4.06	69.34	7,729.22	192.63	705.87	-192.63	1.88	-1.87	2.04
7,884.00	3.16	89.89	7,824.04	193.82	711.63	-193.82	1.64	-0.95	21.63
7,978.00	2.24	123.24	7,917.94	192.82	715.76	-192.82	1.90	-0.98	35.48
8,073.00	2.04	144.14	8,012.87	190.43	718.31	-190.43	0.84	-0.21	22.00
8,168.00	2.14	151.94	8,107.81	187.50	720.13	-187.50	0.32	0.11	8.21
8,263.00	2.06	156.92	8,202.75	184.36	721.63	-184.36	0.21	-0.08	5.24
8,347.00	2.23	153.12	8,286.69	181.52	722.96	-181.52	0.26	0.20	-4.52
8,441.00	2.15	150.07	8,380.62	178.36	724.67	-178.36	0.15	-0.09	-3.24
8,537.00	2.01	155.95	8,476.55	175.26	726.26	-175.26	0.27	-0.15	6.13
8,631.00	2.38	165.83	8,570.49	171.86	727.41	-171.86	0.56	0.39	10.51
8,725.00	1.80	158.69	8,664.42	168.59	728.42	-168.59	0.68	-0.62	-7.60
8,820.00	2.17	174.53	8,759.37	165.41	729.13	-165.41	0.69	0.39	16.67
8,915.00	2.26	176.93	8,854.30	161.75	729.41	-161.75	0.14	0.09	2.53
9,066.00	1.41	190.96	9,005.22	156.95	729.21	-156.95	0.63	-0.56	9.29
9,161.00	7.67	193.59	9,099.87	149.64	727.50	-149.64	6.59	6.59	2.77
9,255.00	15.19	186.38	9,191.95	131.27	724.65	-131.27	8.13	8.00	-7.67
9,350.00	21.23	192.36	9,282.15	102.07	719.58	-102.07	6.65	6.36	6.29
9,444.00	30.81	191.86	9,366.53	61.80	710.97	-61.80	10.19	10.19	-0.53
9,538.00	39.68	193.03	9,443.22	8.89	699.23	-8.89	9.46	9.44	1.24



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9,633.00	50.98	191.25	9,509.90	-57.07	685.15	57.07	11.97	11.89	-1.87
9,697.59	59.83	186.94	9,546.55	-109.51	676.86	109.51	14.76	13.71	-6.67
FTP[SCS\TB#6H]									
9,727.00	63.91	185.24	9,560.41	-135.30	674.12	135.30	14.76	13.85	-5.79
9,822.00	75.29	182.15	9,593.48	-224.00	668.48	224.00	12.36	11.98	-3.25
9,883.00	82.89	181.96	9,605.02	-283.81	666.33	283.81	12.46	12.46	-0.31
9,916.00	87.25	180.92	9,607.85	-316.67	665.51	316.67	13.58	13.21	-3.15
9,943.00	90.24	179.47	9,608.44	-343.66	665.42	343.66	12.31	11.07	-5.37
10,038.00	91.38	175.92	9,607.10	-438.56	669.24	438.56	3.92	1.20	-3.74
10,132.00	90.80	175.13	9,605.31	-532.26	676.57	532.26	1.04	-0.62	-0.84
10,227.00	91.41	175.26	9,603.48	-626.90	684.52	626.90	0.66	0.64	0.14
10,322.00	92.05	175.15	9,600.61	-721.53	692.46	721.53	0.68	0.67	-0.12
10,416.00	91.24	176.79	9,597.91	-815.25	699.06	815.25	1.95	-0.86	1.74
10,511.00	91.71	176.55	9,595.47	-910.06	704.58	910.06	0.56	0.49	-0.25
10,605.00	91.81	177.80	9,592.58	-1,003.90	709.21	1,003.90	1.33	0.11	1.33
10,700.00	91.45	179.17	9,589.88	-1,098.83	711.72	1,098.83	1.49	-0.38	1.44
10,794.00	90.44	180.14	9,588.33	-1,192.81	712.29	1,192.81	1.49	-1.07	1.03
10,889.00	89.80	179.86	9,588.13	-1,287.81	712.29	1,287.81	0.74	-0.67	-0.29
10,983.00	90.81	180.05	9,587.63	-1,381.81	712.36	1,381.81	1.09	1.07	0.20
11,078.00	89.97	181.03	9,586.98	-1,476.80	711.47	1,476.80	1.36	-0.88	1.03
11,172.00	88.76	181.58	9,588.02	-1,570.77	709.33	1,570.77	1.41	-1.29	0.59
11,267.00	87.24	180.31	9,591.34	-1,665.69	707.76	1,665.69	2.08	-1.60	-1.34
11,362.00	87.38	179.88	9,595.80	-1,760.58	707.60	1,760.58	0.48	0.15	-0.45
11,456.00	88.45	179.46	9,599.22	-1,854.52	708.14	1,854.52	1.22	1.14	-0.45
11,550.00	88.96	179.61	9,601.34	-1,948.49	708.91	1,948.49	0.57	0.54	0.16
11,645.00	89.16	179.41	9,602.90	-2,043.48	709.72	2,043.48	0.30	0.21	-0.21
11,740.00	90.24	179.92	9,603.40	-2,138.47	710.27	2,138.47	1.26	1.14	0.54
11,834.00	89.63	179.77	9,603.50	-2,232.47	710.53	2,232.47	0.67	-0.65	-0.16
11,929.00	90.00	179.97	9,603.81	-2,327.47	710.74	2,327.47	0.44	0.39	0.21
12,023.00	89.03	178.76	9,604.61	-2,421.46	711.79	2,421.46	1.65	-1.03	-1.29
12,118.00	90.54	179.69	9,604.96	-2,516.44	713.07	2,516.44	1.87	1.59	0.98
12,212.00	90.64	179.18	9,603.99	-2,610.43	714.00	2,610.43	0.55	0.11	-0.54
12,307.00	91.95	179.42	9,601.85	-2,705.40	715.16	2,705.40	1.40	1.38	0.25
12,401.00	91.14	179.88	9,599.31	-2,799.36	715.73	2,799.36	0.99	-0.86	0.49
12,496.00	91.88	180.42	9,596.81	-2,894.33	715.48	2,894.33	0.96	0.78	0.57
12,590.00	92.29	180.66	9,593.39	-2,988.26	714.60	2,988.26	0.51	0.44	0.26
12,685.00	90.30	181.75	9,591.24	-3,083.21	712.60	3,083.21	2.39	-2.09	1.15
12,779.00	91.11	181.32	9,590.09	-3,177.17	710.08	3,177.17	0.98	0.86	-0.46
12,874.00	90.17	181.65	9,589.02	-3,272.13	707.62	3,272.13	1.05	-0.99	0.35
12,968.00	90.27	180.87	9,588.66	-3,366.11	705.55	3,366.11	0.84	0.11	-0.83
13,063.00	90.94	181.60	9,587.66	-3,461.08	703.51	3,461.08	1.04	0.71	0.77
13,157.00	91.11	180.48	9,585.98	-3,555.05	701.80	3,555.05	1.20	0.18	-1.19
13,251.00	90.37	183.90	9,584.76	-3,648.95	698.21	3,648.95	3.72	-0.79	3.64
13,346.00	89.73	185.25	9,584.68	-3,743.65	690.63	3,743.65	1.57	-0.67	1.42



Scientific Drilling, Intl
Survey Report



Company: Marathon Oil Permian, LLC
Project: Eddy County, NM (NAD27)
Site: Southern Comfort State 24-28-25
Well: TB #6H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well TB #6H
TVD Reference: KB = 26.5' @ 2945.50usft (H&P 498)
MD Reference: KB = 26.5' @ 2945.50usft (H&P 498)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,440.00	90.03	186.12	9,584.88	-3,837.19	681.32	3,837.19	0.98	0.32	0.93
13,534.00	90.54	188.99	9,584.41	-3,930.36	668.96	3,930.36	3.10	0.54	3.05
13,628.00	89.83	188.76	9,584.11	-4,023.23	654.46	4,023.23	0.79	-0.76	-0.24
13,723.00	89.53	188.23	9,584.64	-4,117.19	640.43	4,117.19	0.64	-0.32	-0.56
13,817.00	89.33	187.27	9,585.57	-4,210.32	627.75	4,210.32	1.04	-0.21	-1.02
13,912.00	89.19	186.28	9,586.80	-4,304.65	616.55	4,304.65	1.05	-0.15	-1.04
14,007.00	88.42	185.99	9,588.78	-4,399.09	606.39	4,399.09	0.87	-0.81	-0.31
14,102.00	88.35	185.91	9,591.46	-4,493.54	596.55	4,493.54	0.11	-0.07	-0.08
14,196.00	89.39	185.05	9,593.31	-4,587.09	587.58	4,587.09	1.44	1.11	-0.91
14,291.00	88.56	182.59	9,595.01	-4,681.85	581.25	4,681.85	2.73	-0.87	-2.59
14,385.00	90.20	181.17	9,596.03	-4,775.79	578.17	4,775.79	2.31	1.74	-1.51
14,480.00	90.81	180.58	9,595.19	-4,870.77	576.71	4,870.77	0.89	0.64	-0.62
14,575.00	92.15	180.65	9,592.74	-4,965.73	575.70	4,965.73	1.41	1.41	0.07
14,670.00	91.38	180.96	9,589.81	-5,060.68	574.36	5,060.68	0.87	-0.81	0.33
14,765.00	91.88	181.13	9,587.11	-5,155.62	572.63	5,155.62	0.56	0.53	0.18
14,859.00	91.51	180.71	9,584.33	-5,249.57	571.12	5,249.57	0.60	-0.39	-0.45
14,954.00	92.32	180.78	9,581.16	-5,344.51	569.89	5,344.51	0.86	0.85	0.07
15,048.00	91.61	180.52	9,577.93	-5,438.45	568.82	5,438.45	0.80	-0.76	-0.28
15,143.00	89.93	180.01	9,576.66	-5,533.43	568.38	5,533.43	1.85	-1.77	-0.54
15,237.00	88.82	180.16	9,577.68	-5,627.43	568.24	5,627.43	1.19	-1.18	0.16
15,331.00	90.47	179.98	9,578.26	-5,721.42	568.13	5,721.42	1.77	1.76	-0.19
15,426.00	91.24	179.47	9,576.85	-5,816.41	568.58	5,816.41	0.97	0.81	-0.54
15,520.00	88.66	178.50	9,576.93	-5,910.39	570.25	5,910.39	2.93	-2.74	-1.03
15,615.00	89.23	176.79	9,578.68	-6,005.28	574.15	6,005.28	1.90	0.60	-1.80
15,709.00	89.80	175.97	9,579.47	-6,099.09	580.09	6,099.09	1.06	0.61	-0.87
15,804.00	88.92	174.93	9,580.53	-6,193.79	587.62	6,193.79	1.43	-0.93	-1.09
15,898.00	88.62	174.35	9,582.55	-6,287.35	596.40	6,287.35	0.69	-0.32	-0.62
15,993.00	90.30	174.73	9,583.45	-6,381.91	605.44	6,381.91	1.81	1.77	0.40
16,087.00	89.33	174.78	9,583.75	-6,475.52	614.03	6,475.52	1.03	-1.03	0.05
16,182.00	89.43	174.59	9,584.78	-6,570.10	622.83	6,570.10	0.23	0.11	-0.20
16,276.00	90.97	175.00	9,584.45	-6,663.71	631.36	6,663.71	1.70	1.64	0.44
16,371.00	90.00	174.20	9,583.65	-6,758.29	640.30	6,758.29	1.32	-1.02	-0.84
16,465.00	90.13	173.31	9,583.54	-6,851.73	650.52	6,851.73	0.96	0.14	-0.95
16,559.00	90.07	172.55	9,583.38	-6,945.01	662.09	6,945.01	0.81	-0.06	-0.81
16,653.00	90.74	172.28	9,582.71	-7,038.19	674.50	7,038.19	0.77	0.71	-0.29
16,748.00	91.91	172.35	9,580.51	-7,132.31	687.20	7,132.31	1.23	1.23	0.07
16,843.00	93.13	172.20	9,576.34	-7,226.35	699.96	7,226.35	1.29	1.28	-0.16
16,937.00	94.30	172.53	9,570.25	-7,319.32	712.42	7,319.32	1.29	1.24	0.35
17,024.00	95.59	172.81	9,562.75	-7,405.29	723.48	7,405.29	1.52	1.48	0.32
FINAL MWD Survey (17024.00' MD) - BHL[SCSITB#6H]									
17,094.00	95.59	172.81	9,555.93	-7,474.41	732.20	7,474.41	0.00	0.00	0.00
FINAL Proj. to Bit (17094.00' MD)									



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,024.00	9,562.75	-7,405.29	723.48	FINAL MWD Survey (17024.00' MD)
17,094.00	9,555.93	-7,474.41	732.20	FINAL Proj. to Bit (17094.00' MD)

Checked By: _____ Approved By: _____ Date: _____

