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Directional Survey**

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DISTRICT II-ARTESIA O

Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Cypress Fee 32-27-9 (5-6-7-8)

No. 6H

30.015-44378

OH

Survey: SDI Survey #1

Standard Survey Report

11 December, 2017



Scientific Drilling

www.scientificdrilling.com

Survey Report

Company: Marathon Oil Permian, LLC	Local Co-ordinate Reference: Well No. 6H
Project: Eddy County, NM (NAD27)	TVD Reference: KB = 26.5' @ 3189.50usft (H&P 498)
Site: Cypress Fee 32-27-9 (5-6-7-8)	MD Reference: KB = 26.5' @ 3189.50usft (H&P 498)
Well: No. 6H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: Midland District

Project Eddy County, NM (NAD27)	System Datum: Mean Sea Level
Map System: US State Plane 1927 (Exact solution)	
Geo Datum: NAD 1927 (NADCON CONUS)	
Map Zone: New Mexico East 3001	Using geodetic scale factor

Site Cypress Fee 32-27-9 (5-6-7-8)			
Site Position:	Northing: 479,338.54 usft	Latitude: 32° 19' 3.898 N	
From: Map	Easting: 540,590.90 usft	Longitude: 104° 12' 6.975 W	
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.07 °	

No. 6H			
Well Position	Northing: 479,362.76 usft	Latitude: 32° 19' 4.138 N	
+N/-S 0.00 usft	Easting: 540,573.23 usft	Longitude: 104° 12' 7.181 W	
+E/-W 0.00 usft	Wellhead Elevation: 0.00 usft	Ground Level: 3,163.00 usft	
Position Uncertainty 0.00 usft			

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	11/2/2017	(°) 7.38	(°) 60.12	(nT) 48,066

Design OH					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(bearing)	
	0.00	0.00	0.00	90.00	

Survey Program		Date 12/11/2017
From	To	Survey (Wellbore)
(usft)	(usft)	
204.00	14,853.00	SDI Survey #1 (OH)
		Tool Name MWD+HDGM
		Description OWSG MWD + HDGM

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204.00	0.80	325.40	203.99	1.17	-0.81	-0.81	0.39	0.39	0.00
297.00	2.50	332.10	296.95	3.50	-2.13	-2.13	1.84	1.83	7.20
389.00	3.00	329.90	388.85	7.36	-4.27	-4.27	0.56	0.54	-2.39
422.00	2.60	326.50	421.81	8.73	-5.12	-5.12	1.31	-1.21	-10.30
511.00	1.80	332.90	510.74	11.65	-6.87	-6.87	0.94	-0.90	7.19
604.00	1.40	295.30	603.71	13.44	-8.56	-8.56	1.18	-0.43	-40.43
696.00	2.90	231.80	695.65	12.48	-11.41	-11.41	2.82	1.63	-69.02
788.00	4.10	215.00	787.48	8.35	-15.12	-15.12	1.70	1.30	-18.26
880.00	3.90	220.60	879.25	3.28	-19.05	-19.05	0.48	-0.22	6.09

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 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well No. 6H
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 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)
973.00	3.60	221.20	972.05	-1.32	-23.03	-23.03	0.33	-0.32	0.65
1,065.00	3.40	225.30	1,063.88	-5.41	-26.87	-26.87	0.35	-0.22	4.46
1,160.00	3.00	218.20	1,158.74	-9.35	-30.41	-30.41	0.59	-0.42	-7.47
1,254.00	2.70	190.10	1,252.62	-13.46	-32.32	-32.32	1.50	-0.32	-29.89
1,349.00	3.50	152.50	1,347.49	-18.24	-31.37	-31.37	2.25	0.84	-39.58
1,444.00	3.70	142.80	1,442.31	-23.25	-28.18	-28.18	0.67	0.21	-10.21
1,539.00	4.30	156.60	1,537.08	-28.96	-24.91	-24.91	1.19	0.63	14.53
1,633.00	5.30	174.90	1,630.75	-36.52	-23.13	-23.13	1.93	1.06	19.47
1,728.00	5.60	188.40	1,725.33	-45.48	-23.41	-23.41	1.38	0.32	14.21
1,823.00	5.40	208.60	1,819.90	-53.99	-26.23	-26.23	2.04	-0.21	21.26
1,917.00	5.40	219.40	1,913.48	-61.29	-31.16	-31.16	1.08	0.00	11.49
2,011.00	4.77	212.27	2,007.11	-68.01	-36.05	-36.05	0.95	-0.67	-7.59
2,105.00	6.89	210.93	2,100.62	-76.15	-41.03	-41.03	2.26	2.26	-1.43
2,200.00	9.48	211.10	2,194.65	-87.74	-48.01	-48.01	2.73	2.73	0.18
2,294.00	11.56	210.99	2,287.06	-102.45	-56.85	-56.85	2.21	2.21	-0.12
2,389.00	11.71	209.95	2,380.11	-118.96	-66.57	-66.57	0.27	0.16	-1.09
2,483.00	12.12	208.48	2,472.08	-135.90	-76.04	-76.04	0.54	0.44	-1.56
2,578.00	11.92	212.88	2,565.00	-152.90	-86.12	-86.12	0.99	-0.21	4.63
2,673.00	11.46	222.04	2,658.04	-168.15	-97.77	-97.77	2.01	-0.48	9.64
2,767.00	11.14	220.64	2,750.22	-181.98	-109.93	-109.93	0.45	-0.34	-1.49
2,862.00	10.51	218.35	2,843.53	-195.74	-121.29	-121.29	0.80	-0.66	-2.41
2,957.00	10.06	217.42	2,937.00	-209.12	-131.70	-131.70	0.50	-0.47	-0.98
3,051.00	9.88	216.65	3,029.58	-222.11	-141.51	-141.51	0.24	-0.19	-0.82
3,146.00	9.59	215.93	3,123.21	-235.06	-151.02	-151.02	0.33	-0.31	-0.76
3,241.00	9.68	213.27	3,216.87	-248.15	-160.04	-160.04	0.48	0.09	-2.80
3,336.00	9.97	211.12	3,310.48	-261.86	-168.67	-168.67	0.49	0.31	-2.26
3,430.00	10.30	210.96	3,403.01	-276.04	-177.20	-177.20	0.35	0.35	-0.17
3,525.00	10.69	208.39	3,496.42	-291.07	-185.76	-185.76	0.64	0.41	-2.71
3,619.00	10.80	207.38	3,588.78	-306.56	-193.96	-193.96	0.23	0.12	-1.07
3,714.00	11.18	206.67	3,682.03	-322.69	-202.18	-202.18	0.42	0.40	-0.75
3,808.00	9.37	212.46	3,774.53	-337.30	-210.38	-210.38	2.21	-1.93	6.16
3,903.00	8.87	215.07	3,868.32	-349.82	-218.74	-218.74	0.68	-0.53	2.75
3,998.00	8.27	212.12	3,962.26	-361.60	-226.58	-226.58	0.78	-0.63	-3.11
4,092.00	7.61	216.66	4,055.36	-372.32	-233.89	-233.89	0.97	-0.70	4.83
4,187.00	6.43	219.79	4,149.65	-381.45	-241.05	-241.05	1.31	-1.24	3.29
4,281.00	3.66	225.34	4,243.28	-387.60	-246.56	-246.56	2.99	-2.95	5.90
4,376.00	2.58	226.34	4,338.13	-391.21	-250.26	-250.26	1.14	-1.14	1.05
4,471.00	2.53	228.07	4,433.04	-394.09	-253.37	-253.37	0.10	-0.05	1.82
4,565.00	2.56	231.87	4,526.95	-396.77	-256.56	-256.56	0.18	0.03	4.04
4,660.00	1.43	227.72	4,621.89	-398.88	-259.11	-259.11	1.20	-1.19	-4.37
4,754.00	0.76	240.69	4,715.87	-399.97	-260.52	-260.52	0.76	-0.71	13.80
4,849.00	0.77	234.43	4,810.86	-400.65	-261.59	-261.59	0.09	0.01	-6.59
4,943.00	0.90	237.35	4,904.85	-401.42	-262.72	-262.72	0.15	0.14	3.11
5,038.00	1.04	218.84	4,999.84	-402.49	-263.89	-263.89	0.36	0.15	-19.48

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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)
5,133.00	0.90	203.53	5,094.83	-403.85	-264.73	-264.73	0.31	-0.15	-16.12
5,227.00	1.01	204.04	5,188.81	-405.28	-265.36	-265.36	0.12	0.12	0.54
5,322.00	1.19	193.54	5,283.80	-407.01	-265.93	-265.93	0.28	0.19	-11.05
5,416.00	1.15	199.87	5,377.78	-408.84	-266.48	-266.48	0.14	-0.04	6.73
5,511.00	0.87	222.63	5,472.76	-410.27	-267.30	-267.30	0.51	-0.29	23.96
5,605.00	1.25	244.57	5,566.75	-411.23	-268.71	-268.71	0.58	0.40	23.34
5,700.00	1.31	255.01	5,661.72	-411.96	-270.69	-270.69	0.25	0.06	10.99
5,795.00	0.48	6.52	5,756.71	-411.85	-271.69	-271.69	1.63	-0.87	117.38
5,889.00	1.30	49.16	5,850.70	-410.76	-270.84	-270.84	1.07	0.87	45.36
5,983.00	1.57	71.20	5,944.67	-409.65	-268.82	-268.82	0.65	0.29	23.45
6,078.00	1.82	80.77	6,039.63	-408.98	-266.10	-266.10	0.40	0.26	10.07
6,172.00	2.04	90.14	6,133.58	-408.75	-262.95	-262.95	0.41	0.23	9.97
6,267.00	1.00	51.86	6,228.55	-408.24	-260.61	-260.61	1.47	-1.09	-40.29
6,362.00	0.96	0.72	6,323.53	-406.93	-259.94	-259.94	0.89	-0.04	-53.83
6,456.00	1.12	15.32	6,417.52	-405.26	-259.69	-259.69	0.33	0.17	15.53
6,551.00	1.20	25.27	6,512.50	-403.46	-259.02	-259.02	0.23	0.08	10.47
6,645.00	1.02	35.00	6,606.48	-401.89	-258.12	-258.12	0.28	-0.19	10.35
6,740.00	0.11	127.96	6,701.48	-401.25	-257.57	-257.57	1.09	-0.96	97.85
6,834.00	0.88	175.25	6,795.47	-402.03	-257.43	-257.43	0.86	0.82	50.31
6,929.00	1.42	154.60	6,890.45	-403.82	-256.87	-256.87	0.71	0.57	-21.74
7,024.00	1.23	131.50	6,985.43	-405.56	-255.60	-255.60	0.59	-0.20	-24.32
7,118.00	1.30	121.50	7,079.41	-406.78	-253.94	-253.94	0.25	0.07	-10.64
7,213.00	0.66	126.37	7,174.39	-407.67	-252.58	-252.58	0.68	-0.67	5.13
7,307.00	0.45	272.62	7,268.39	-407.97	-252.51	-252.51	1.13	-0.22	155.59
7,402.00	0.81	335.43	7,363.38	-407.35	-253.16	-253.16	0.76	0.38	66.12
7,496.00	0.87	324.35	7,457.37	-406.16	-253.85	-253.85	0.18	0.06	-11.79
7,591.00	0.83	336.75	7,552.36	-404.94	-254.55	-254.55	0.20	-0.04	13.05
7,685.00	0.77	323.48	7,646.36	-403.81	-255.19	-255.19	0.21	-0.06	-14.12
7,780.00	1.02	94.77	7,741.35	-403.37	-254.73	-254.73	1.72	0.26	138.20
7,875.00	1.47	84.34	7,836.33	-403.32	-252.67	-252.67	0.53	0.47	-10.98
7,969.00	1.38	47.45	7,930.30	-402.43	-250.64	-250.64	0.96	-0.10	-39.24
8,064.00	0.91	116.77	8,025.28	-402.00	-249.12	-249.12	1.43	-0.49	72.97
8,159.00	1.12	142.85	8,120.27	-403.08	-247.89	-247.89	0.53	0.22	27.45
8,253.00	1.67	163.81	8,214.24	-405.13	-246.95	-246.95	0.79	0.59	22.30
8,348.00	0.76	214.77	8,309.22	-406.97	-246.92	-246.92	1.40	-0.96	53.64
8,443.00	0.51	249.51	8,404.22	-407.64	-247.68	-247.68	0.47	-0.26	36.57
8,537.00	0.31	331.26	8,498.22	-407.56	-248.19	-248.19	0.59	-0.21	86.97
8,632.00	0.17	55.39	8,593.21	-407.26	-248.20	-248.20	0.36	-0.15	88.56
8,726.00	0.10	358.12	8,687.21	-407.10	-248.09	-248.09	0.15	-0.07	-60.93
8,821.00	0.14	323.15	8,782.21	-406.92	-248.16	-248.16	0.09	0.04	-36.81
8,915.00	0.10	231.32	8,876.21	-406.88	-248.29	-248.29	0.19	-0.04	-97.69
8,978.00	0.27	210.98	8,939.21	-407.04	-248.41	-248.41	0.29	0.27	-32.29
9,079.00	0.65	177.38	9,040.21	-407.82	-248.51	-248.51	0.45	0.38	-33.27

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9,173.00	0.84	198.39	9,134.20	-409.00	-248.70	-248.70	0.35	0.20	22.35
9,267.00	0.74	218.45	9,228.19	-410.13	-249.30	-249.30	0.31	-0.11	21.34
9,361.00	1.04	252.49	9,322.18	-410.87	-250.49	-250.49	0.63	0.32	36.21
9,454.00	1.19	262.47	9,415.17	-411.25	-252.25	-252.25	0.26	0.16	10.73
9,548.00	1.12	259.05	9,509.15	-411.55	-254.12	-254.12	0.10	-0.07	-3.64
9,642.00	1.22	243.31	9,603.13	-412.17	-255.92	-255.92	0.36	0.11	-16.74
9,736.00	1.37	244.23	9,697.10	-413.11	-257.82	-257.82	0.16	0.16	0.98
9,831.00	1.11	249.48	9,792.08	-413.93	-259.71	-259.71	0.30	-0.27	5.53
9,878.00	0.81	139.59	9,839.08	-414.34	-259.92	-259.92	3.36	-0.64	-233.81
9,925.00	2.81	118.31	9,886.05	-415.14	-258.69	-258.69	4.42	4.26	-45.28
9,956.00	4.04	117.52	9,917.00	-416.00	-257.05	-257.05	3.97	3.97	-2.55
9,988.00	5.32	113.19	9,948.89	-417.11	-254.69	-254.69	4.15	4.00	-13.53
10,019.00	5.82	111.49	9,979.74	-418.25	-251.90	-251.90	1.70	1.61	-5.48
10,045.00	7.78	105.49	10,005.56	-419.20	-248.98	-248.98	8.01	7.54	-23.08
10,082.00	13.62	97.69	10,041.90	-420.46	-242.24	-242.24	16.23	15.78	-21.08
10,113.00	18.23	93.82	10,071.70	-421.27	-233.78	-233.78	15.25	14.87	-12.48
10,160.00	24.92	94.76	10,115.39	-422.58	-216.56	-216.56	14.25	14.23	2.00
10,207.00	30.66	94.01	10,156.95	-424.24	-194.72	-194.72	12.24	12.21	-1.60
10,254.00	32.19	92.90	10,197.05	-425.71	-170.26	-170.26	3.48	3.26	-2.36
10,300.00	39.77	85.44	10,234.27	-425.16	-143.31	-143.31	19.01	16.48	-16.22
10,347.00	47.58	79.56	10,268.25	-420.82	-111.20	-111.20	18.71	16.62	-12.51
10,390.00	56.49	82.27	10,294.68	-415.52	-77.75	-77.75	21.30	20.72	6.30
10,417.00	62.45	83.76	10,308.39	-412.70	-54.68	-54.68	22.58	22.07	5.52
10,446.00	67.43	87.10	10,320.67	-410.62	-28.50	-28.50	20.09	17.17	11.52
10,511.00	73.88	89.15	10,342.19	-408.64	32.76	32.76	10.36	9.92	3.15
10,522.42	73.59	89.20	10,345.39	-408.48	43.72	43.72	2.54	-2.51	0.43
FTP[CF#6H]									
10,574.00	72.30	89.42	10,360.52	-407.89	93.03	93.03	2.54	-2.51	0.43
10,621.00	72.74	88.92	10,374.64	-407.24	137.85	137.85	1.38	0.94	-1.06
10,668.00	73.52	88.77	10,388.27	-406.33	182.82	182.82	1.69	1.66	-0.32
10,715.00	74.69	88.76	10,401.15	-405.36	228.01	228.01	2.49	2.49	-0.02
10,762.00	79.45	87.50	10,411.66	-403.86	273.78	273.78	10.46	10.13	-2.68
10,809.00	80.91	86.33	10,419.68	-401.36	320.02	320.02	3.96	3.11	-2.49
10,856.00	82.40	86.70	10,426.50	-398.54	366.44	366.44	3.26	3.17	0.79
10,887.00	86.74	84.98	10,429.43	-396.30	397.21	397.21	15.05	14.00	-5.55
10,918.00	92.55	85.35	10,429.62	-393.69	428.08	428.08	18.78	18.74	1.19
11,012.00	91.88	83.37	10,425.99	-384.46	521.55	521.55	2.22	-0.71	-2.11
11,044.00	91.41	82.95	10,425.07	-380.65	553.31	553.31	1.97	-1.47	-1.31
11,138.00	90.10	82.02	10,423.83	-368.35	646.49	646.49	1.71	-1.39	-0.99
11,233.00	86.98	85.93	10,426.25	-358.39	740.91	740.91	5.26	-3.28	4.12
11,328.00	86.24	87.00	10,431.87	-352.54	835.56	835.56	1.37	-0.78	1.13
11,422.00	89.90	89.61	10,435.04	-349.76	929.44	929.44	4.78	3.89	2.78
11,517.00	88.79	88.98	10,436.12	-348.59	1,024.43	1,024.43	1.34	-1.17	-0.66
11,612.00	88.15	88.49	10,438.66	-346.50	1,119.37	1,119.37	0.85	-0.67	-0.52

Survey Report

Company: Marathon Oil Permian, LLC
 Project: Eddy County, NM (NAD27)
 Site: Cypress Fee 32-27-9 (5-6-7-8)
 Well: No. 6H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well No. 6H
 TVD Reference: KB = 26.5' @ 3189.50usft (H&P 498)
 MD Reference: KB = 26.5' @ 3189.50usft (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)
11,705.00	88.19	87.45	10,441.63	-343.20	1,212.26	1,212.26	1.12	0.04	-1.12
11,800.00	87.65	87.55	10,445.08	-339.06	1,307.11	1,307.11	0.58	-0.57	0.11
11,894.00	87.05	85.55	10,449.42	-333.41	1,400.83	1,400.83	2.22	-0.64	-2.13
11,988.00	90.54	86.94	10,451.40	-327.26	1,494.59	1,494.59	4.00	3.71	1.48
12,083.00	90.00	86.79	10,450.95	-322.07	1,589.45	1,589.45	0.59	-0.57	-0.16
12,177.00	87.21	86.17	10,453.24	-316.30	1,683.23	1,683.23	3.04	-2.97	-0.66
12,271.00	88.49	87.17	10,456.77	-310.84	1,777.01	1,777.01	1.73	1.36	1.06
12,365.00	87.68	88.11	10,459.91	-306.97	1,870.87	1,870.87	1.32	-0.86	1.00
12,460.00	90.17	89.34	10,461.69	-304.86	1,965.82	1,965.82	2.92	2.62	1.29
12,554.00	88.93	90.63	10,462.43	-304.83	2,059.82	2,059.82	1.90	-1.32	1.37
12,648.00	86.64	89.42	10,466.06	-304.88	2,153.74	2,153.74	2.75	-2.44	-1.29
12,742.00	89.80	89.21	10,468.98	-303.75	2,247.67	2,247.67	3.37	3.36	-0.22
12,837.00	89.23	90.62	10,469.79	-303.61	2,342.67	2,342.67	1.60	-0.60	1.48
12,931.00	87.18	89.62	10,472.73	-303.81	2,436.62	2,436.62	2.43	-2.18	-1.06
13,025.00	89.53	88.36	10,475.43	-302.15	2,530.55	2,530.55	2.84	2.50	-1.34
13,120.00	89.30	87.50	10,476.40	-298.72	2,625.49	2,625.49	0.94	-0.24	-0.91
13,215.00	88.59	87.30	10,478.15	-294.41	2,720.37	2,720.37	0.78	-0.75	-0.21
13,311.00	88.42	88.31	10,480.65	-290.74	2,816.27	2,816.27	1.07	-0.18	1.05
13,405.00	87.58	89.62	10,483.93	-289.04	2,910.19	2,910.19	1.65	-0.89	1.39
13,499.00	87.41	90.08	10,488.04	-288.79	3,004.10	3,004.10	0.52	-0.18	0.49
13,593.00	90.27	88.52	10,489.94	-287.65	3,098.06	3,098.06	3.47	3.04	-1.66
13,688.00	86.01	84.44	10,493.03	-281.82	3,192.79	3,192.79	6.21	-4.48	-4.29
13,782.00	87.15	86.45	10,498.64	-274.37	3,286.32	3,286.32	2.45	1.21	2.14
13,876.00	87.89	86.90	10,502.70	-268.93	3,380.07	3,380.07	0.92	0.79	0.48
13,971.00	89.87	89.47	10,504.56	-265.92	3,475.00	3,475.00	3.41	2.08	2.71
14,066.00	88.76	88.90	10,505.70	-264.57	3,569.98	3,569.98	1.31	-1.17	-0.60
14,160.00	87.45	88.79	10,508.81	-262.67	3,663.90	3,663.90	1.40	-1.39	-0.12
14,255.00	86.47	89.23	10,513.84	-261.03	3,758.76	3,758.76	1.13	-1.03	0.46
14,349.00	87.68	90.16	10,518.64	-260.54	3,852.63	3,852.63	1.62	1.29	0.99
14,444.00	88.05	91.43	10,522.18	-261.85	3,947.55	3,947.55	1.39	0.39	1.34
14,538.00	88.99	93.05	10,524.61	-265.53	4,041.44	4,041.44	1.99	1.00	1.72
14,632.00	87.18	90.39	10,527.75	-268.35	4,135.34	4,135.34	3.42	-1.93	-2.83
14,726.00	86.68	89.12	10,532.78	-267.94	4,229.20	4,229.20	1.45	-0.53	-1.35
14,792.00	86.48	88.98	10,536.72	-266.85	4,295.07	4,295.07	0.37	-0.30	-0.21
FINAL MWD Survey (14792.00' MD)									
14,853.00	86.48	88.98	10,540.47	-265.77	4,355.95	4,355.95	0.00	0.00	0.00
FINAL Proj. to Bit (14853.00' MD) - BHL[CF#6H]									

Survey Report

Company: Marathon Oil Permian, LLC
Project: Eddy County, NM (NAD27)
Site: Cypress Fee 32-27-9 (5-6-7-8)
Well: No. 6H
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Design: OH

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MD Reference: KB = 26.5' @ 3189.50usft (H&P 498)
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)	
14,792.00	10,536.72	-266.85	4,295.07	FINAL MWD Survey (14792.00' MD)
14,853.00	10,540.47	-265.77	4,355.95	FINAL Proj. to Bit (14853.00' MD)

Checked By: _____ Approved By: _____ Date: _____