

Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Catapult Fee 23-26-1

TB #6H

30-015-44689

OH

Plan: Plan #1

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 15 2018

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Standard Planning Report

01 February, 2018



Scientific Drilling

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Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well TB #6H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB = 25' @ 3244.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	MD Reference:	KB = 25' @ 3244.00usft (Precision 594)
Site:	Catapult Fee 23-26-1	North Reference:	Grid
Well:	TB #6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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		Catapult Fee 23-26-1			
Site Position:		Northing:	482,945.77 usft	Latitude:	32° 19' 39.724 N
From:	Map	Easting:	528,174.41 usft	Longitude:	104° 14' 31.635 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05

Well	TB #6H				
Well Position	+N-S	0.00 usft	Northing:	482,945.77 usft	Latitude: 32° 19' 39.723 N
	+E-W	60.01 usft	Easting:	528,234.41 usft	Longitude: 104° 14' 30.935 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,219.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	2/1/2018	7.38	60.07	48,027

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	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	0.00

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	8.00	130.00	2,398.70	-17.92	21.36	2.00	2.00	0.00	130.00	
6,285.00	8.00	130.00	6,245.89	-365.47	435.55	0.00	0.00	0.00	0.00	
6,685.00	0.00	0.00	6,644.59	-383.39	456.91	2.00	-2.00	0.00	180.00	
8,157.17	0.00	0.00	8,116.76	-383.39	456.91	0.00	0.00	0.00	0.00	
9,064.17	90.70	0.13	8,689.68	196.57	458.21	10.00	10.00	0.00	0.13	
13,376.08	90.70	0.13	8,637.00	4,508.15	467.90	0.00	0.00	0.00	0.00	BH[CF\TB#6H]

Planning Report

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Site:	Catapult Fee 23-26-1	North Reference:	Grid
Well:	TB #6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 2.0° / 100									
2,100.00	2.00	130.00	2,099.98	-1.12	1.34	-1.12	2.00	2.00	0.00
2,200.00	4.00	130.00	2,199.84	-4.49	5.35	-4.49	2.00	2.00	0.00
2,300.00	6.00	130.00	2,299.45	-10.09	12.02	-10.09	2.00	2.00	0.00
2,400.00	8.00	130.00	2,398.70	-17.92	21.36	-17.92	2.00	2.00	0.00
EOB - HOLD									
2,500.00	8.00	130.00	2,497.73	-26.87	32.02	-26.87	0.00	0.00	0.00
2,600.00	8.00	130.00	2,596.76	-35.81	42.68	-35.81	0.00	0.00	0.00
2,700.00	8.00	130.00	2,695.78	-44.76	53.34	-44.76	0.00	0.00	0.00
2,800.00	8.00	130.00	2,794.81	-53.70	64.00	-53.70	0.00	0.00	0.00
2,900.00	8.00	130.00	2,893.84	-62.65	74.66	-62.65	0.00	0.00	0.00
3,000.00	8.00	130.00	2,992.86	-71.60	85.32	-71.60	0.00	0.00	0.00
3,100.00	8.00	130.00	3,091.89	-80.54	95.99	-80.54	0.00	0.00	0.00
3,200.00	8.00	130.00	3,190.92	-89.49	106.65	-89.49	0.00	0.00	0.00
3,300.00	8.00	130.00	3,289.94	-98.43	117.31	-98.43	0.00	0.00	0.00
3,400.00	8.00	130.00	3,388.97	-107.38	127.97	-107.38	0.00	0.00	0.00
3,500.00	8.00	130.00	3,488.00	-116.33	138.63	-116.33	0.00	0.00	0.00
3,600.00	8.00	130.00	3,587.02	-125.27	149.29	-125.27	0.00	0.00	0.00
3,700.00	8.00	130.00	3,686.05	-134.22	159.95	-134.22	0.00	0.00	0.00
3,800.00	8.00	130.00	3,785.08	-143.16	170.62	-143.16	0.00	0.00	0.00
3,900.00	8.00	130.00	3,884.10	-152.11	181.28	-152.11	0.00	0.00	0.00
4,000.00	8.00	130.00	3,983.13	-161.05	191.94	-161.05	0.00	0.00	0.00
4,100.00	8.00	130.00	4,082.16	-170.00	202.60	-170.00	0.00	0.00	0.00
4,200.00	8.00	130.00	4,181.18	-178.95	213.26	-178.95	0.00	0.00	0.00
4,300.00	8.00	130.00	4,280.21	-187.89	223.92	-187.89	0.00	0.00	0.00
4,400.00	8.00	130.00	4,379.24	-196.84	234.58	-196.84	0.00	0.00	0.00
4,500.00	8.00	130.00	4,478.26	-205.78	245.24	-205.78	0.00	0.00	0.00
4,600.00	8.00	130.00	4,577.29	-214.73	255.91	-214.73	0.00	0.00	0.00
4,700.00	8.00	130.00	4,676.32	-223.68	266.57	-223.68	0.00	0.00	0.00
4,800.00	8.00	130.00	4,775.35	-232.62	277.23	-232.62	0.00	0.00	0.00
4,900.00	8.00	130.00	4,874.37	-241.57	287.89	-241.57	0.00	0.00	0.00
5,000.00	8.00	130.00	4,973.40	-250.51	298.55	-250.51	0.00	0.00	0.00
5,100.00	8.00	130.00	5,072.43	-259.46	309.21	-259.46	0.00	0.00	0.00

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Wellbore:	OH		
Design:	Plan #1		

Planned 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)	
5,200.00	8.00	130.00	5,171.45	-268.41	319.87	-268.41	0.00	0.00	0.00	
5,300.00	8.00	130.00	5,270.48	-277.35	330.53	-277.35	0.00	0.00	0.00	
5,400.00	8.00	130.00	5,369.51	-286.30	341.20	-286.30	0.00	0.00	0.00	
5,500.00	8.00	130.00	5,468.53	-295.24	351.86	-295.24	0.00	0.00	0.00	
5,600.00	8.00	130.00	5,567.56	-304.19	362.52	-304.19	0.00	0.00	0.00	
5,700.00	8.00	130.00	5,666.59	-313.13	373.18	-313.13	0.00	0.00	0.00	
5,800.00	8.00	130.00	5,765.61	-322.08	383.84	-322.08	0.00	0.00	0.00	
5,900.00	8.00	130.00	5,864.64	-331.03	394.50	-331.03	0.00	0.00	0.00	
6,000.00	8.00	130.00	5,963.67	-339.97	405.16	-339.97	0.00	0.00	0.00	
6,100.00	8.00	130.00	6,062.69	-348.92	415.82	-348.92	0.00	0.00	0.00	
6,200.00	8.00	130.00	6,161.72	-357.86	426.49	-357.86	0.00	0.00	0.00	
6,285.00	8.00	130.00	6,245.89	-365.47	435.55	-365.47	0.00	0.00	0.00	
DROP 2.0° / 100										
6,300.00	7.70	130.00	6,260.75	-366.78	437.12	-366.78	2.00	-2.00	0.00	
6,400.00	5.70	130.00	6,360.06	-374.28	446.05	-374.28	2.00	-2.00	0.00	
6,500.00	3.70	130.00	6,459.72	-379.55	452.33	-379.55	2.00	-2.00	0.00	
6,600.00	1.70	130.00	6,559.61	-382.58	455.94	-382.58	2.00	-2.00	0.00	
6,685.00	0.00	0.00	6,644.59	-383.39	456.91	-383.39	2.00	-2.00	0.00	
EOD - HOLD										
6,700.00	0.00	0.00	6,659.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,759.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,859.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,959.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,059.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,159.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,259.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,359.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,459.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,559.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,659.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,759.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,859.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,959.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,059.59	-383.39	456.91	-383.39	0.00	0.00	0.00	
8,157.17	0.00	0.00	8,116.76	-383.39	456.91	-383.39	0.00	0.00	0.00	
Curve KOP - Build 10.0° / 100										
8,200.00	4.28	0.13	8,159.55	-381.79	456.91	-381.79	10.00	10.00	0.00	
8,250.00	9.28	0.13	8,209.19	-375.89	456.92	-375.89	10.00	10.00	0.00	
8,300.00	14.28	0.13	8,258.12	-365.68	456.95	-365.68	10.00	10.00	0.00	
8,350.00	19.28	0.13	8,305.98	-351.25	456.98	-351.25	10.00	10.00	0.00	
8,400.00	24.28	0.13	8,352.39	-332.70	457.02	-332.70	10.00	10.00	0.00	
8,450.00	29.28	0.13	8,397.01	-310.17	457.07	-310.17	10.00	10.00	0.00	
8,500.00	34.28	0.13	8,439.50	-283.85	457.13	-283.85	10.00	10.00	0.00	
8,550.00	39.28	0.13	8,479.53	-253.92	457.20	-253.92	10.00	10.00	0.00	
8,600.00	44.28	0.13	8,516.81	-220.61	457.27	-220.61	10.00	10.00	0.00	
8,650.00	49.28	0.13	8,551.03	-184.18	457.35	-184.18	10.00	10.00	0.00	
8,700.00	54.28	0.13	8,581.95	-144.91	457.44	-144.91	10.00	10.00	0.00	
8,750.00	59.28	0.13	8,609.34	-103.10	457.54	-103.10	10.00	10.00	0.00	
8,764.19	60.70	0.13	8,616.43	-90.81	457.56	-90.81	10.00	10.00	0.00	
FTP[CFTB#6H]										
8,800.00	64.28	0.13	8,632.97	-59.05	457.63	-59.05	10.00	10.00	0.00	
8,850.00	69.28	0.13	8,652.67	-13.12	457.74	-13.12	10.00	10.00	0.00	
8,900.00	74.28	0.13	8,668.30	34.36	457.84	34.36	10.00	10.00	0.00	

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Wellbore:	OH		
Design:	Plan #1		

Planned 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)	
8,950.00	79.28	0.13	8,679.73	83.02	457.95	83.02	10.00	10.00	0.00	
9,000.00	84.28	0.13	8,686.87	132.49	458.06	132.49	10.00	10.00	0.00	
9,050.00	89.28	0.13	8,689.68	182.40	458.18	182.40	10.00	10.00	0.00	
9,064.17	90.70	0.13	8,689.68	196.57	458.21	196.57	10.00	10.00	0.00	
EOC - HOLD										
9,100.00	90.70	0.13	8,689.24	232.40	458.29	232.40	0.00	0.00	0.00	
9,200.00	90.70	0.13	8,688.02	332.39	458.51	332.39	0.00	0.00	0.00	
9,300.00	90.70	0.13	8,686.80	432.38	458.74	432.38	0.00	0.00	0.00	
9,400.00	90.70	0.13	8,685.58	532.37	458.96	532.37	0.00	0.00	0.00	
9,500.00	90.70	0.13	8,684.35	632.36	459.19	632.36	0.00	0.00	0.00	
9,600.00	90.70	0.13	8,683.13	732.36	459.41	732.36	0.00	0.00	0.00	
9,700.00	90.70	0.13	8,681.91	832.35	459.64	832.35	0.00	0.00	0.00	
9,800.00	90.70	0.13	8,680.69	932.34	459.86	932.34	0.00	0.00	0.00	
9,900.00	90.70	0.13	8,679.47	1,032.33	460.09	1,032.33	0.00	0.00	0.00	
10,000.00	90.70	0.13	8,678.25	1,132.33	460.31	1,132.33	0.00	0.00	0.00	
10,100.00	90.70	0.13	8,677.02	1,232.32	460.54	1,232.32	0.00	0.00	0.00	
10,200.00	90.70	0.13	8,675.80	1,332.31	460.76	1,332.31	0.00	0.00	0.00	
10,300.00	90.70	0.13	8,674.58	1,432.30	460.99	1,432.30	0.00	0.00	0.00	
10,400.00	90.70	0.13	8,673.36	1,532.30	461.21	1,532.30	0.00	0.00	0.00	
10,500.00	90.70	0.13	8,672.14	1,632.29	461.44	1,632.29	0.00	0.00	0.00	
10,600.00	90.70	0.13	8,670.92	1,732.28	461.66	1,732.28	0.00	0.00	0.00	
10,700.00	90.70	0.13	8,669.69	1,832.27	461.89	1,832.27	0.00	0.00	0.00	
10,800.00	90.70	0.13	8,668.47	1,932.26	462.11	1,932.26	0.00	0.00	0.00	
10,900.00	90.70	0.13	8,667.25	2,032.26	462.34	2,032.26	0.00	0.00	0.00	
11,000.00	90.70	0.13	8,666.03	2,132.25	462.56	2,132.25	0.00	0.00	0.00	
11,100.00	90.70	0.13	8,664.81	2,232.24	462.79	2,232.24	0.00	0.00	0.00	
11,200.00	90.70	0.13	8,663.59	2,332.23	463.01	2,332.23	0.00	0.00	0.00	
11,300.00	90.70	0.13	8,662.36	2,432.23	463.24	2,432.23	0.00	0.00	0.00	
11,400.00	90.70	0.13	8,661.14	2,532.22	463.46	2,532.22	0.00	0.00	0.00	
11,500.00	90.70	0.13	8,659.92	2,632.21	463.68	2,632.21	0.00	0.00	0.00	
11,600.00	90.70	0.13	8,658.70	2,732.20	463.91	2,732.20	0.00	0.00	0.00	
11,700.00	90.70	0.13	8,657.48	2,832.19	464.13	2,832.19	0.00	0.00	0.00	
11,800.00	90.70	0.13	8,656.26	2,932.19	464.36	2,932.19	0.00	0.00	0.00	
11,900.00	90.70	0.13	8,655.03	3,032.18	464.58	3,032.18	0.00	0.00	0.00	
12,000.00	90.70	0.13	8,653.81	3,132.17	464.81	3,132.17	0.00	0.00	0.00	
12,100.00	90.70	0.13	8,652.59	3,232.16	465.03	3,232.16	0.00	0.00	0.00	
12,200.00	90.70	0.13	8,651.37	3,332.16	465.26	3,332.16	0.00	0.00	0.00	
12,300.00	90.70	0.13	8,650.15	3,432.15	465.48	3,432.15	0.00	0.00	0.00	
12,400.00	90.70	0.13	8,648.92	3,532.14	465.71	3,532.14	0.00	0.00	0.00	
12,500.00	90.70	0.13	8,647.70	3,632.13	465.93	3,632.13	0.00	0.00	0.00	
12,600.00	90.70	0.13	8,646.48	3,732.13	466.16	3,732.13	0.00	0.00	0.00	
12,700.00	90.70	0.13	8,645.26	3,832.12	466.38	3,832.12	0.00	0.00	0.00	
12,800.00	90.70	0.13	8,644.04	3,932.11	466.61	3,932.11	0.00	0.00	0.00	
12,900.00	90.70	0.13	8,642.82	4,032.10	466.83	4,032.10	0.00	0.00	0.00	
13,000.00	90.70	0.13	8,641.59	4,132.09	467.06	4,132.09	0.00	0.00	0.00	
13,100.00	90.70	0.13	8,640.37	4,232.09	467.28	4,232.09	0.00	0.00	0.00	
13,200.00	90.70	0.13	8,639.15	4,332.08	467.51	4,332.08	0.00	0.00	0.00	
13,300.00	90.70	0.13	8,637.93	4,432.07	467.73	4,432.07	0.00	0.00	0.00	
13,376.08	90.70	0.13	8,637.00	4,508.15	467.90	4,508.15	0.00	0.00	0.00	
TD at 13376.08 - BHL[CF/TB#6H]										

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well TB #6H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB = 25' @ 3244.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	MD Reference:	KB = 25' @ 3244.00usft (Precision 594)
Site:	Catapult Fee 23-26-1	North Reference:	Grid
Well:	TB #6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL[CF\TB#6H] - hit/miss target - Shape	0.00	0.00	8,637.00	4,508.15	467.90	487,453.51	528,702.27	32° 20' 24.329 N	104° 14' 25.437 W
- plan hits target center - Point									
FTP[CF\TB#6H] - plan misses target center by 82.35usft at 8764.19usft MD (8616.43 TVD, -90.81 N, 457.56 E) - Point	0.00	0.00	8,689.00	-129.74	457.68	482,816.04	528,692.05	32° 19' 38.435 N	104° 14' 25.603 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP - Build 2.0° / 100
2,400.00	2,398.70	-17.92	21.36	EOB - HOLD
6,285.00	6,245.89	-365.47	435.55	DROP 2.0° / 100
6,685.00	6,644.59	-383.39	456.91	EOD - HOLD
8,157.17	8,116.76	-383.39	456.91	Curve KOP - Build 10.0° / 100
9,064.17	8,689.68	196.57	458.21	EOC - HOLD
13,376.08	8,637.00	4,508.15	467.90	TD at 13376.08

