

Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Catapult Fee 23-26-1

WA #5H

30-015-44691

OH

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 15 2018

Plan: Plan #1

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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 WA #5H
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:	WA #5H	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
From:	Map	Easting:	528,174.41 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 19' 39.724 N
		Longitude:	104° 14' 31.635 W
		Grid Convergence:	0.05 °

Well:	WA #5H		
Well Position	+N-S	0.00 usft	Northing: 482,945.77 usft
	+E-W	30.00 usft	Easting: 528,204.41 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 19' 39.723 N
		Longitude:	104° 14' 31.285 W
		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	48,026

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	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	0.01

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	0.01	2,000.00	0.00	0.00	0.00	0.00	0.00	0.01	
2,300.00	6.00	160.00	2,299.45	-14.75	5.37	2.00	2.00	0.00	160.00	
6,050.00	6.00	160.00	6,028.91	-383.09	139.43	0.00	0.00	0.00	0.00	
6,350.00	0.00	0.00	6,328.36	-397.84	144.80	2.00	-2.00	0.00	180.00	
8,366.58	0.00	0.00	8,344.94	-397.84	144.80	0.00	0.00	0.00	0.00	
9,273.58	90.70	0.27	8,917.85	182.11	147.53	10.00	10.00	0.00	0.27	
13,599.67	90.70	0.27	8,865.00	4,507.84	167.88	0.00	0.00	0.00	0.00	BHL[CF/WA#5H]

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Site:	Catapult Fee 23-26-1	North Reference:	Grid
Well:	WA #5H	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	160.00	2,099.98	-1.64	0.60	-1.64	2.00	2.00	0.00
2,200.00	4.00	160.00	2,199.84	-6.56	2.39	-6.56	2.00	2.00	0.00
2,300.00	6.00	160.00	2,299.45	-14.75	5.37	-14.75	2.00	2.00	0.00
EOB - HOLD									
2,400.00	6.00	160.00	2,398.90	-24.57	8.94	-24.57	0.00	0.00	0.00
2,500.00	6.00	160.00	2,498.36	-34.39	12.52	-34.39	0.00	0.00	0.00
2,600.00	6.00	160.00	2,597.81	-44.21	16.09	-44.21	0.00	0.00	0.00
2,700.00	6.00	160.00	2,697.26	-54.04	19.67	-54.04	0.00	0.00	0.00
2,800.00	6.00	160.00	2,796.71	-63.86	23.24	-63.86	0.00	0.00	0.00
2,900.00	6.00	160.00	2,896.17	-73.68	26.82	-73.68	0.00	0.00	0.00
3,000.00	6.00	160.00	2,995.62	-83.50	30.39	-83.50	0.00	0.00	0.00
3,100.00	6.00	160.00	3,095.07	-93.33	33.97	-93.32	0.00	0.00	0.00
3,200.00	6.00	160.00	3,194.52	-103.15	37.54	-103.15	0.00	0.00	0.00
3,300.00	6.00	160.00	3,293.97	-112.97	41.12	-112.97	0.00	0.00	0.00
3,400.00	6.00	160.00	3,393.43	-122.79	44.69	-122.79	0.00	0.00	0.00
3,500.00	6.00	160.00	3,492.88	-132.62	48.27	-132.61	0.00	0.00	0.00
3,600.00	6.00	160.00	3,592.33	-142.44	51.84	-142.43	0.00	0.00	0.00
3,700.00	6.00	160.00	3,691.78	-152.26	55.42	-152.26	0.00	0.00	0.00
3,800.00	6.00	160.00	3,791.23	-162.08	58.99	-162.08	0.00	0.00	0.00
3,900.00	6.00	160.00	3,890.69	-171.91	62.57	-171.90	0.00	0.00	0.00
4,000.00	6.00	160.00	3,990.14	-181.73	66.14	-181.72	0.00	0.00	0.00
4,100.00	6.00	160.00	4,089.59	-191.55	69.72	-191.55	0.00	0.00	0.00
4,200.00	6.00	160.00	4,189.04	-201.37	73.29	-201.37	0.00	0.00	0.00
4,300.00	6.00	160.00	4,288.50	-211.20	76.87	-211.19	0.00	0.00	0.00
4,400.00	6.00	160.00	4,387.95	-221.02	80.44	-221.01	0.00	0.00	0.00
4,500.00	6.00	160.00	4,487.40	-230.84	84.02	-230.83	0.00	0.00	0.00
4,600.00	6.00	160.00	4,586.85	-240.66	87.59	-240.66	0.00	0.00	0.00
4,700.00	6.00	160.00	4,686.30	-250.49	91.17	-250.48	0.00	0.00	0.00
4,800.00	6.00	160.00	4,785.76	-260.31	94.74	-260.30	0.00	0.00	0.00
4,900.00	6.00	160.00	4,885.21	-270.13	98.32	-270.12	0.00	0.00	0.00
5,000.00	6.00	160.00	4,984.66	-279.95	101.89	-279.94	0.00	0.00	0.00
5,100.00	6.00	160.00	5,084.11	-289.78	105.47	-289.77	0.00	0.00	0.00

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Well:	WA #5H	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)	
5,200.00	6.00	160.00	5,183.57	-299.60	109.04	-299.59	0.00	0.00	0.00	
5,300.00	6.00	160.00	5,283.02	-309.42	112.62	-309.41	0.00	0.00	0.00	
5,400.00	6.00	160.00	5,382.47	-319.24	116.20	-319.23	0.00	0.00	0.00	
5,500.00	6.00	160.00	5,481.92	-329.07	119.77	-329.06	0.00	0.00	0.00	
5,600.00	6.00	160.00	5,581.37	-338.89	123.35	-338.88	0.00	0.00	0.00	
5,700.00	6.00	160.00	5,680.83	-348.71	126.92	-348.70	0.00	0.00	0.00	
5,800.00	6.00	160.00	5,780.28	-358.53	130.50	-358.52	0.00	0.00	0.00	
5,900.00	6.00	160.00	5,879.73	-368.36	134.07	-368.34	0.00	0.00	0.00	
6,000.00	6.00	160.00	5,979.18	-378.18	137.65	-378.17	0.00	0.00	0.00	
6,050.00	6.00	160.00	6,028.91	-383.09	139.43	-383.08	0.00	0.00	0.00	
DROP 2.0° / 100										
6,100.00	5.00	160.00	6,078.68	-387.59	141.07	-387.58	2.00	-2.00	0.00	
6,200.00	3.00	160.00	6,178.43	-394.15	143.46	-394.13	2.00	-2.00	0.00	
6,300.00	1.00	160.00	6,278.36	-397.43	144.65	-397.41	2.00	-2.00	0.00	
6,350.00	0.00	0.00	6,328.36	-397.84	144.80	-397.82	2.00	-2.00	0.00	
EOD - HOLD										
6,400.00	0.00	0.00	6,378.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,478.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,578.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,678.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,778.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,878.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,978.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,078.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,178.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,278.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,378.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,478.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,578.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,678.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,778.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,878.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,978.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,078.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,178.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,278.36	-397.84	144.80	-397.82	0.00	0.00	0.00	
8,366.58	0.00	0.00	8,344.94	-397.84	144.80	-397.82	0.00	0.00	0.00	
Curve KOP - Build 10.0° / 100										
8,400.00	3.34	0.27	8,378.34	-396.86	144.81	-396.85	10.00	10.00	0.00	
8,450.00	8.34	0.27	8,428.07	-391.77	144.83	-391.76	10.00	10.00	0.00	
8,500.00	13.34	0.27	8,477.16	-382.37	144.87	-382.36	10.00	10.00	0.00	
8,550.00	18.34	0.27	8,525.24	-368.73	144.94	-368.71	10.00	10.00	0.00	
8,600.00	23.34	0.27	8,571.96	-350.94	145.02	-350.93	10.00	10.00	0.00	
8,650.00	28.34	0.27	8,616.94	-329.15	145.12	-329.14	10.00	10.00	0.00	
8,700.00	33.34	0.27	8,659.86	-303.53	145.24	-303.52	10.00	10.00	0.00	
8,750.00	38.34	0.27	8,700.38	-274.26	145.38	-274.25	10.00	10.00	0.00	
8,800.00	43.34	0.27	8,738.19	-241.57	145.54	-241.56	10.00	10.00	0.00	
8,850.00	48.34	0.27	8,773.01	-205.71	145.70	-205.70	10.00	10.00	0.00	
8,900.00	53.34	0.27	8,804.57	-166.96	145.89	-166.94	10.00	10.00	0.00	
8,950.00	58.34	0.27	8,832.64	-125.59	146.08	-125.58	10.00	10.00	0.00	
8,986.13	61.96	0.27	8,850.62	-94.26	146.23	-94.25	10.00	10.00	0.00	
FTP[CF/WA#5H]										
9,000.00	63.34	0.27	8,856.99	-81.94	146.29	-81.93	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)	
9,050.00	68.34	0.27	8,877.45	-36.34	146.50	-36.33	10.00	10.00	0.00	
9,100.00	73.34	0.27	8,893.85	10.88	146.72	10.89	10.00	10.00	0.00	
9,150.00	78.34	0.27	8,906.08	59.34	146.95	59.36	10.00	10.00	0.00	
9,200.00	83.34	0.27	8,914.03	108.69	147.18	108.70	10.00	10.00	0.00	
9,250.00	88.34	0.27	8,917.66	158.54	147.42	158.55	10.00	10.00	0.00	
9,273.58	90.70	0.27	8,917.85	182.11	147.53	182.13	10.00	10.00	0.00	
EOC - HOLD										
9,300.00	90.70	0.27	8,917.53	208.54	147.65	208.55	0.00	0.00	0.00	
9,400.00	90.70	0.27	8,916.31	308.53	148.12	308.54	0.00	0.00	0.00	
9,500.00	90.70	0.27	8,915.09	408.52	148.59	408.53	0.00	0.00	0.00	
9,600.00	90.70	0.27	8,913.86	508.51	149.06	508.52	0.00	0.00	0.00	
9,700.00	90.70	0.27	8,912.64	608.50	149.53	608.52	0.00	0.00	0.00	
9,800.00	90.70	0.27	8,911.42	708.49	150.00	708.51	0.00	0.00	0.00	
9,900.00	90.70	0.27	8,910.20	808.49	150.47	808.50	0.00	0.00	0.00	
10,000.00	90.70	0.27	8,908.98	908.48	150.95	908.49	0.00	0.00	0.00	
10,100.00	90.70	0.27	8,907.76	1,008.47	151.42	1,008.48	0.00	0.00	0.00	
10,200.00	90.70	0.27	8,906.53	1,108.46	151.89	1,108.47	0.00	0.00	0.00	
10,300.00	90.70	0.27	8,905.31	1,208.45	152.36	1,208.46	0.00	0.00	0.00	
10,400.00	90.70	0.27	8,904.09	1,308.44	152.83	1,308.46	0.00	0.00	0.00	
10,500.00	90.70	0.27	8,902.87	1,408.43	153.30	1,408.45	0.00	0.00	0.00	
10,600.00	90.70	0.27	8,901.65	1,508.43	153.77	1,508.44	0.00	0.00	0.00	
10,700.00	90.70	0.27	8,900.43	1,608.42	154.24	1,608.43	0.00	0.00	0.00	
10,800.00	90.70	0.27	8,899.20	1,708.41	154.71	1,708.42	0.00	0.00	0.00	
10,900.00	90.70	0.27	8,897.98	1,808.40	155.18	1,808.41	0.00	0.00	0.00	
11,000.00	90.70	0.27	8,896.76	1,908.39	155.65	1,908.40	0.00	0.00	0.00	
11,100.00	90.70	0.27	8,895.54	2,008.38	156.12	2,008.40	0.00	0.00	0.00	
11,200.00	90.70	0.27	8,894.32	2,108.37	156.59	2,108.39	0.00	0.00	0.00	
11,300.00	90.70	0.27	8,893.10	2,208.37	157.06	2,208.38	0.00	0.00	0.00	
11,400.00	90.70	0.27	8,891.87	2,308.36	157.53	2,308.37	0.00	0.00	0.00	
11,500.00	90.70	0.27	8,890.65	2,408.35	158.00	2,408.36	0.00	0.00	0.00	
11,600.00	90.70	0.27	8,889.43	2,508.34	158.47	2,508.35	0.00	0.00	0.00	
11,700.00	90.70	0.27	8,888.21	2,608.33	158.94	2,608.34	0.00	0.00	0.00	
11,800.00	90.70	0.27	8,886.99	2,708.32	159.41	2,708.34	0.00	0.00	0.00	
11,900.00	90.70	0.27	8,885.77	2,808.31	159.88	2,808.33	0.00	0.00	0.00	
12,000.00	90.70	0.27	8,884.54	2,908.31	160.35	2,908.32	0.00	0.00	0.00	
12,100.00	90.70	0.27	8,883.32	3,008.30	160.82	3,008.31	0.00	0.00	0.00	
12,200.00	90.70	0.27	8,882.10	3,108.29	161.29	3,108.30	0.00	0.00	0.00	
12,300.00	90.70	0.27	8,880.88	3,208.28	161.76	3,208.29	0.00	0.00	0.00	
12,400.00	90.70	0.27	8,879.66	3,308.27	162.23	3,308.29	0.00	0.00	0.00	
12,500.00	90.70	0.27	8,878.43	3,408.26	162.70	3,408.28	0.00	0.00	0.00	
12,600.00	90.70	0.27	8,877.21	3,508.25	163.17	3,508.27	0.00	0.00	0.00	
12,700.00	90.70	0.27	8,875.99	3,608.25	163.64	3,608.26	0.00	0.00	0.00	
12,800.00	90.70	0.27	8,874.77	3,708.24	164.11	3,708.25	0.00	0.00	0.00	
12,900.00	90.70	0.27	8,873.55	3,808.23	164.58	3,808.24	0.00	0.00	0.00	
13,000.00	90.70	0.27	8,872.33	3,908.22	165.05	3,908.23	0.00	0.00	0.00	
13,100.00	90.70	0.27	8,871.10	4,008.21	165.53	4,008.23	0.00	0.00	0.00	
13,200.00	90.70	0.27	8,869.88	4,108.20	166.00	4,108.22	0.00	0.00	0.00	
13,300.00	90.70	0.27	8,868.66	4,208.19	166.47	4,208.21	0.00	0.00	0.00	
13,400.00	90.70	0.27	8,867.44	4,308.19	166.94	4,308.20	0.00	0.00	0.00	
13,500.00	90.70	0.27	8,866.22	4,408.18	167.41	4,408.19	0.00	0.00	0.00	
13,599.67	90.70	0.27	8,865.00	4,507.84	167.88	4,507.85	0.00	0.00	0.00	
TD at 13599.67 - BHL[CF/WA#5H]										

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well WA #5H
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:	WA #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
hit/miss target	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)		
Shape									
BHL[CF/WA#5H]	0.00	0.00	8,865.00	4,507.84	167.88	487,453.20	528,372.27	32° 20' 24.328 N	104° 14' 29.283 W
- plan hits target center									
- Point									
FTP[CF/WA#5H]	0.00	0.00	8,918.00	-131.91	157.65	482,813.87	528,362.05	32° 19' 38.417 N	104° 14' 29.449 W
- plan misses target center by 78.03usft at 8986.13usft MD (8850.62 TVD, -94.26 N, 146.23 E)									
- Point									

Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N-S	+E-W	Comment
(usft)	(usft)	(usft)	(usft)	
2,000.00	2,000.00	0.00	0.00	KOP - Build 2.0° / 100
2,300.00	2,299.45	-14.75	5.37	EOB - HOLD
6,050.00	6,028.91	-383.09	139.43	DROP 2.0° / 100
6,350.00	6,328.36	-397.84	144.80	EOD - HOLD
8,366.58	8,344.94	-397.84	144.80	Curve KOP - Build 10.0° / 100
9,273.58	8,917.85	182.11	147.53	EOC - HOLD
13,599.67	8,865.00	4,507.84	167.88	TD at 13599.67

