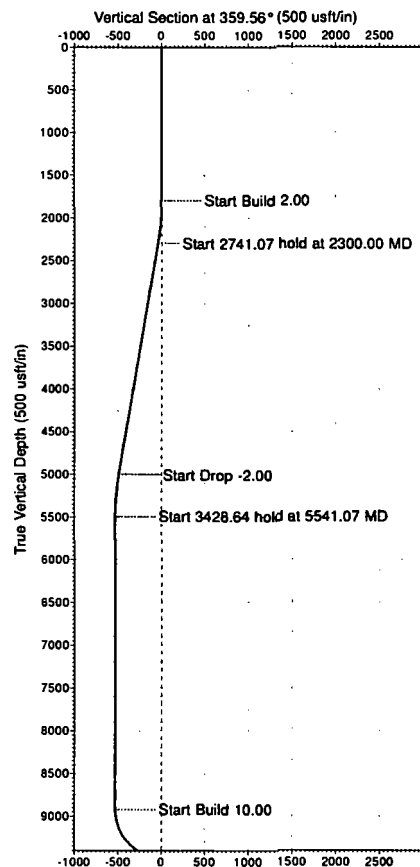


Marathon Oil Corporation

Marathon Oil
Lea County, NM
Flowmaster 15 (11-12-16-17)
AV Fee #17H
Prelim Plan B



US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: well @ 3546.00usft

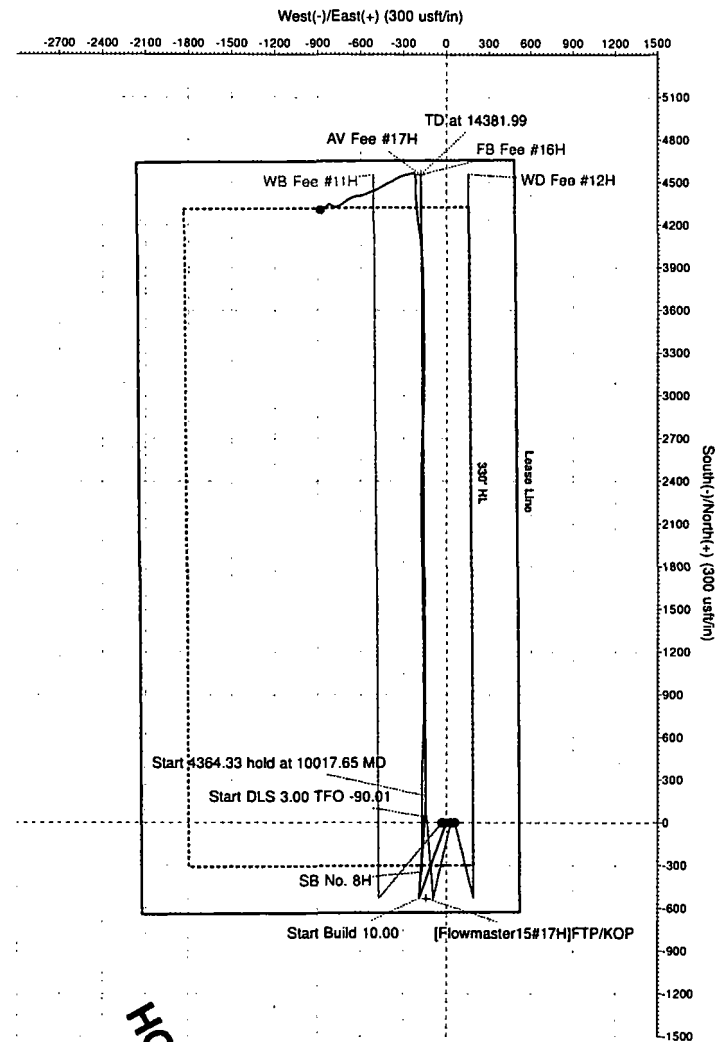
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	441903.19	770410.24	32.211886	-103.459025	

SECTION DETAILS

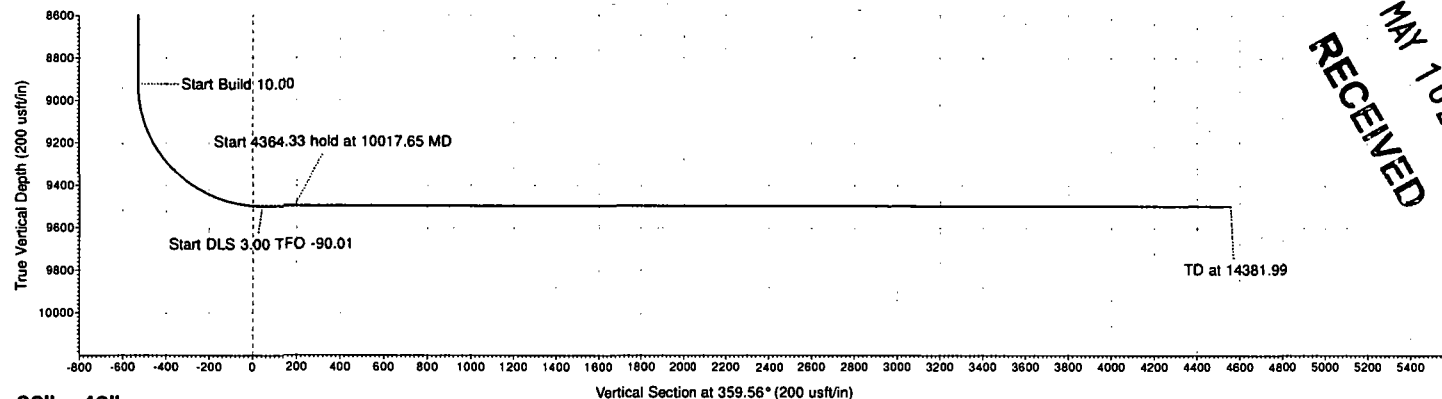
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00
3	2300.00	10.00	199.72	2297.47	-40.97	-14.69	2.00	-40.86
4	5041.07	10.00	199.72	4996.90	-489.03	-175.31	0.00	-487.67
5	5541.07	0.00	0.00	5494.36	-530.00	-190.00	2.00	-528.53
6	8989.71	0.00	0.00	8923.00	-530.00	-190.00	0.00	-528.53
7	9869.71	90.00	4.00	9495.96	41.56	-150.03	10.00	42.71
8	10017.65	90.00	359.56	9495.96	189.40	-145.44	3.00	190.51
9	14381.99	90.00	359.56	9496.00	4553.60	-178.82	0.00	4554.84

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[Flowmaster15#17H]FTP/KOP	8923.00	-530.18	-140.09	441373.01	770270.15
[Flowmaster15#17H]LTP/BHL	9496.00	4553.60	-178.82	446456.79	770231.42



Target Line: 9496' TVD @ 0° VS, 90° INC



HOBBS OCD
MAY 10 2019
RECEIVED



Azimuths to Grid North
True North: 0.47°
Magnetic North: 6.22°
Magnetic Field
Strength: 47.048 Gauss
Dip Angle: 59.88°
Date: 12/17/2018
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 6.22°

Declination (M to T): 6.68° East

Company: Marathon Oil
Project: Lea County, NM
Site: Flowmaster 15 (11-12-16-17)
Well: AV Fee #17H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well AV Fee #17H
TVD Reference: well @ 3546.00usft
MD Reference: well @ 3546.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project	Lea County, NM		
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		

HOBBS OCD

MAY 10 2019

RECEIVED

Site		Flowmaster 15 (11-12-16-17)			
Site Position:		Northing:	441,863.44 usft	Latitude:	32.211783
From:	Map	Easting:	770,110.06 usft	Longitude:	-103.459997
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

MAY 10 2016
RECEIVED

Well	AV Fee #17H					
Well Position	+N/-S	0.00 usft	Northing:	441,903.19 usft	Latitude:	32.211886
	+E/-W	0.00 usft	Easting:	770,410.24 usft	Longitude:	-103.459026
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,520.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/17/2018	6.68	59.88	47,946.80

Design	Prelim Plan B				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.56	

Survey Tool Program	Date 5/9/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,850.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	
1,850.00	5,400.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	
5,400.00	10,000.00	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	
10,000.00	14,381.99	Prelim Plan B (OH)	MWD+HDGM	OWSG MWD + HRGM	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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

Company: Marathon Oil
Project: Lea County, NM
Site: Flowmaster 15 (11-12-16-17)
Well: AV Fee #17H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well AV Fee #17H
TVD Reference: well @ 3546.00usft
MD Reference: well @ 3546.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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	2.00	199.72	1,899.98	-1.64	-0.59	-1.64	2.00	2.00	0.00
2,000.00	4.00	199.72	1,999.84	-6.57	-2.35	-6.55	2.00	2.00	0.00
2,100.00	6.00	199.72	2,099.45	-14.77	-5.30	-14.73	2.00	2.00	0.00
2,200.00	8.00	199.72	2,198.70	-26.24	-9.41	-26.17	2.00	2.00	0.00
2,300.00	10.00	199.72	2,297.47	-40.97	-14.69	-40.86	2.00	2.00	0.00
2,400.00	10.00	199.72	2,395.95	-57.32	-20.55	-57.16	0.00	0.00	0.00
2,500.00	10.00	199.72	2,494.43	-73.66	-26.41	-73.46	0.00	0.00	0.00
2,600.00	10.00	199.72	2,592.91	-90.01	-32.27	-89.76	0.00	0.00	0.00
2,700.00	10.00	199.72	2,691.39	-106.35	-38.13	-106.06	0.00	0.00	0.00
2,800.00	10.00	199.72	2,789.87	-122.70	-43.99	-122.36	0.00	0.00	0.00
2,900.00	10.00	199.72	2,888.35	-139.05	-49.85	-138.66	0.00	0.00	0.00
3,000.00	10.00	199.72	2,986.83	-155.39	-55.71	-154.96	0.00	0.00	0.00
3,100.00	10.00	199.72	3,085.31	-171.74	-61.57	-171.26	0.00	0.00	0.00
3,200.00	10.00	199.72	3,183.79	-188.09	-67.43	-187.56	0.00	0.00	0.00
3,300.00	10.00	199.72	3,282.27	-204.43	-73.29	-203.86	0.00	0.00	0.00
3,400.00	10.00	199.72	3,380.75	-220.78	-79.15	-220.16	0.00	0.00	0.00
3,500.00	10.00	199.72	3,479.23	-237.12	-85.01	-236.46	0.00	0.00	0.00
3,600.00	10.00	199.72	3,577.72	-253.47	-90.87	-252.76	0.00	0.00	0.00
3,700.00	10.00	199.72	3,676.20	-269.82	-96.73	-269.07	0.00	0.00	0.00
3,800.00	10.00	199.72	3,774.68	-286.16	-102.59	-285.37	0.00	0.00	0.00
3,900.00	10.00	199.72	3,873.16	-302.51	-108.45	-301.67	0.00	0.00	0.00
4,000.00	10.00	199.72	3,971.64	-318.85	-114.31	-317.97	0.00	0.00	0.00
4,100.00	10.00	199.72	4,070.12	-335.20	-120.17	-334.27	0.00	0.00	0.00
4,200.00	10.00	199.72	4,168.60	-351.55	-126.03	-350.57	0.00	0.00	0.00
4,300.00	10.00	199.72	4,267.08	-367.89	-131.89	-366.87	0.00	0.00	0.00
4,400.00	10.00	199.72	4,365.56	-384.24	-137.75	-383.17	0.00	0.00	0.00
4,500.00	10.00	199.72	4,464.04	-400.59	-143.61	-399.47	0.00	0.00	0.00
4,600.00	10.00	199.72	4,562.52	-416.93	-149.47	-415.77	0.00	0.00	0.00
4,700.00	10.00	199.72	4,661.00	-433.28	-155.33	-432.07	0.00	0.00	0.00
4,800.00	10.00	199.72	4,759.48	-449.62	-161.19	-448.37	0.00	0.00	0.00
4,900.00	10.00	199.72	4,857.97	-465.97	-167.05	-464.67	0.00	0.00	0.00
5,000.00	10.00	199.72	4,956.45	-482.32	-172.91	-480.97	0.00	0.00	0.00

Company: Marathon Oil
Project: Lea County, NM
Site: Flowmaster 15 (11-12-16-17)
Well: AV Fee #17H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well AV Fee #17H
TVD Reference: well @ 3546.00usft
MD Reference: well @ 3546.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,041.07	10.00	199.72	4,996.90	-489.03	-175.31	-487.67	0.00	0.00	0.00
5,100.00	8.82	199.72	5,055.03	-498.10	-178.56	-496.71	2.00	-2.00	0.00
5,200.00	6.82	199.72	5,154.09	-510.91	-183.16	-509.49	2.00	-2.00	0.00
5,300.00	4.82	199.72	5,253.57	-520.46	-186.58	-519.01	2.00	-2.00	0.00
5,400.00	2.82	199.72	5,353.34	-526.73	-188.83	-525.27	2.00	-2.00	0.00
5,500.00	0.82	199.72	5,453.29	-529.72	-189.90	-528.25	2.00	-2.00	0.00
5,541.07	0.00	0.00	5,494.36	-530.00	-190.00	-528.53	2.00	-2.00	0.00
5,600.00	0.00	0.00	5,553.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
5,700.00	0.00	0.00	5,653.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
5,800.00	0.00	0.00	5,753.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
5,900.00	0.00	0.00	5,853.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,000.00	0.00	0.00	5,953.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,100.00	0.00	0.00	6,053.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,200.00	0.00	0.00	6,153.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,300.00	0.00	0.00	6,253.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,400.00	0.00	0.00	6,353.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,500.00	0.00	0.00	6,453.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,600.00	0.00	0.00	6,553.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,700.00	0.00	0.00	6,653.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,800.00	0.00	0.00	6,753.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
6,900.00	0.00	0.00	6,853.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,000.00	0.00	0.00	6,953.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,100.00	0.00	0.00	7,053.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,200.00	0.00	0.00	7,153.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,300.00	0.00	0.00	7,253.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,400.00	0.00	0.00	7,353.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,500.00	0.00	0.00	7,453.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,600.00	0.00	0.00	7,553.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,700.00	0.00	0.00	7,653.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,800.00	0.00	0.00	7,753.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
7,900.00	0.00	0.00	7,853.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,000.00	0.00	0.00	7,953.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,100.00	0.00	0.00	8,053.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,200.00	0.00	0.00	8,153.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,300.00	0.00	0.00	8,253.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,400.00	0.00	0.00	8,353.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,500.00	0.00	0.00	8,453.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,600.00	0.00	0.00	8,553.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,700.00	0.00	0.00	8,653.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,800.00	0.00	0.00	8,753.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,900.00	0.00	0.00	8,853.29	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,969.71	0.00	0.00	8,923.00	-530.00	-190.00	-528.53	0.00	0.00	0.00
8,969.80	0.00	4.00	8,923.09	-530.00	-190.00	-528.53	0.00	0.00	0.00

[Flowmaster15#17H]FTP/KOP

Company: Marathon Oil
Project: Lea County, NM
Site: Flowmaster 15 (11-12-16-17)
Well: AV Fee #17H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well AV Fee #17H
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Survey Calculation Method: Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.00	3.03	4.00	8,953.27	-529.20	-189.94	-527.73	10.03	10.03	0.00
9,050.00	8.03	4.00	9,003.03	-524.40	-189.61	-522.93	10.00	10.00	0.00
9,100.00	13.03	4.00	9,052.17	-515.29	-188.97	-513.82	10.00	10.00	0.00
9,150.00	18.03	4.00	9,100.33	-501.94	-188.04	-500.48	10.00	10.00	0.00
9,200.00	23.03	4.00	9,147.14	-484.45	-186.81	-483.00	10.00	10.00	0.00
9,250.00	28.03	4.00	9,192.24	-462.96	-185.31	-461.53	10.00	10.00	0.00
9,300.00	33.03	4.00	9,235.30	-437.63	-183.54	-436.21	10.00	10.00	0.00
9,350.00	38.03	4.00	9,275.97	-408.66	-181.51	-407.25	10.00	10.00	0.00
9,400.00	43.03	4.00	9,313.97	-376.26	-179.25	-374.87	10.00	10.00	0.00
9,450.00	48.03	4.00	9,348.98	-340.67	-176.76	-339.31	10.00	10.00	0.00
9,500.00	53.03	4.00	9,380.76	-302.18	-174.07	-300.84	10.00	10.00	0.00
9,550.00	58.03	4.00	9,409.05	-261.08	-171.20	-259.75	10.00	10.00	0.00
9,600.00	63.03	4.00	9,433.64	-217.67	-168.16	-216.37	10.00	10.00	0.00
9,650.00	68.03	4.00	9,454.35	-172.28	-164.99	-171.01	10.00	10.00	0.00
9,700.00	73.03	4.00	9,471.01	-125.27	-161.70	-124.03	10.00	10.00	0.00
9,750.00	78.03	4.00	9,483.50	-76.99	-158.32	-75.77	10.00	10.00	0.00
9,800.00	83.03	4.00	9,491.72	-27.81	-154.88	-26.62	10.00	10.00	0.00
9,850.00	88.03	4.00	9,495.62	21.90	-151.41	23.06	10.00	10.00	0.00
9,869.71	90.00	4.00	9,495.96	41.56	-150.03	42.71	10.00	10.00	0.00
9,900.00	90.00	3.09	9,495.96	71.79	-148.16	72.93	3.00	0.00	-3.00
10,000.00	90.00	0.09	9,495.96	171.74	-145.38	172.85	3.00	0.00	-3.00
10,017.66	90.00	359.56	9,495.96	189.40	-145.44	190.51	3.00	0.00	-3.00
10,100.00	90.00	359.56	9,495.96	271.74	-146.07	272.85	0.00	0.00	0.00
10,200.00	90.00	359.56	9,495.96	371.74	-146.83	372.85	0.00	0.00	0.00
10,300.00	90.00	359.56	9,495.96	471.73	-147.60	472.85	0.00	0.00	0.00
10,400.00	90.00	359.56	9,495.96	571.73	-148.36	572.85	0.00	0.00	0.00
10,500.00	90.00	359.56	9,495.96	671.73	-149.13	672.85	0.00	0.00	0.00
10,600.00	90.00	359.56	9,495.96	771.72	-149.89	772.85	0.00	0.00	0.00
10,700.00	90.00	359.56	9,495.97	871.72	-150.66	872.85	0.00	0.00	0.00
10,800.00	90.00	359.56	9,495.97	971.72	-151.42	972.85	0.00	0.00	0.00
10,900.00	90.00	359.56	9,495.97	1,071.72	-152.19	1,072.85	0.00	0.00	0.00
11,000.00	90.00	359.56	9,495.97	1,171.71	-152.95	1,172.85	0.00	0.00	0.00
11,100.00	90.00	359.56	9,495.97	1,271.71	-153.72	1,272.85	0.00	0.00	0.00
11,200.00	90.00	359.56	9,495.97	1,371.71	-154.48	1,372.85	0.00	0.00	0.00
11,300.00	90.00	359.56	9,495.97	1,471.70	-155.25	1,472.85	0.00	0.00	0.00
11,400.00	90.00	359.56	9,495.97	1,571.70	-156.01	1,572.85	0.00	0.00	0.00
11,500.00	90.00	359.56	9,495.97	1,671.70	-156.77	1,672.85	0.00	0.00	0.00
11,600.00	90.00	359.56	9,495.97	1,771.70	-157.54	1,772.85	0.00	0.00	0.00
11,700.00	90.00	359.56	9,495.97	1,871.69	-158.30	1,872.85	0.00	0.00	0.00
11,800.00	90.00	359.56	9,495.98	1,971.69	-159.07	1,972.85	0.00	0.00	0.00
11,900.00	90.00	359.56	9,495.98	2,071.69	-159.83	2,072.85	0.00	0.00	0.00
12,000.00	90.00	359.56	9,495.98	2,171.68	-160.60	2,172.85	0.00	0.00	0.00
12,100.00	90.00	359.56	9,495.98	2,271.68	-161.36	2,272.85	0.00	0.00	0.00

Company: Marathon Oil
Project: Lea County, NM
Site: Flowmaster 15 (11-12-16-17)
Well: AV Fee #17H
Wellbore: OH
Design: Prelim Plan B

Local Co-ordinate Reference: Well AV Fee #17H
TVD Reference: well @ 3546.00usft
MD Reference: well @ 3546.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.00	90.00	359.56	9,495.98	2,371.68	-162.13	2,372.85	0.00	0.00	0.00
12,300.00	90.00	359.56	9,495.98	2,471.67	-162.89	2,472.85	0.00	0.00	0.00
12,400.00	90.00	359.56	9,495.98	2,571.67	-163.66	2,572.85	0.00	0.00	0.00
12,500.00	90.00	359.56	9,495.98	2,671.67	-164.42	2,672.85	0.00	0.00	0.00
12,600.00	90.00	359.56	9,495.98	2,771.67	-165.19	2,772.85	0.00	0.00	0.00
12,700.00	90.00	359.56	9,495.98	2,871.66	-165.95	2,872.85	0.00	0.00	0.00
12,800.00	90.00	359.56	9,495.99	2,971.66	-166.72	2,972.85	0.00	0.00	0.00
12,900.00	90.00	359.56	9,495.99	3,071.66	-167.48	3,072.85	0.00	0.00	0.00
13,000.00	90.00	359.56	9,495.99	3,171.65	-168.25	3,172.85	0.00	0.00	0.00
13,100.00	90.00	359.56	9,495.99	3,271.65	-169.01	3,272.85	0.00	0.00	0.00
13,200.00	90.00	359.56	9,495.99	3,371.65	-169.78	3,372.85	0.00	0.00	0.00
13,300.00	90.00	359.56	9,495.99	3,471.65	-170.54	3,472.85	0.00	0.00	0.00
13,400.00	90.00	359.56	9,495.99	3,571.64	-171.31	3,572.85	0.00	0.00	0.00
13,500.00	90.00	359.56	9,495.99	3,671.64	-172.07	3,672.85	0.00	0.00	0.00
13,600.00	90.00	359.56	9,495.99	3,771.64	-172.84	3,772.85	0.00	0.00	0.00
13,700.00	90.00	359.56	9,495.99	3,871.63	-173.60	3,872.85	0.00	0.00	0.00
13,800.00	90.00	359.56	9,495.99	3,971.63	-174.37	3,972.85	0.00	0.00	0.00
13,900.00	90.00	359.56	9,496.00	4,071.63	-175.13	4,072.85	0.00	0.00	0.00
14,000.00	90.00	359.56	9,496.00	4,171.62	-175.90	4,172.85	0.00	0.00	0.00
14,100.00	90.00	359.56	9,496.00	4,271.62	-176.66	4,272.85	0.00	0.00	0.00
14,200.00	90.00	359.56	9,496.00	4,371.62	-177.43	4,372.85	0.00	0.00	0.00
14,300.00	90.00	359.56	9,496.00	4,471.62	-178.19	4,472.85	0.00	0.00	0.00
14,381.99	90.00	359.56	9,496.00	4,553.60	-178.82	4,554.84	0.00	0.00	0.00

[Flowmaster15#17H]LTP/BHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
[Flowmaster15#17H]FTF	0.00	0.00	8,923.00	-530.18	-140.09	441,373.01	770,270.15	32.210431	-103.459493
- plan misses target center by 49.91usft at 8969.71usft MD (8923.00 TVD, -530.00 N, -190.00 E)									
- Point									
[Flowmaster15#17H]LTF	0.00	0.00	9,496.00	4,553.60	-178.82	446,456.79	770,231.42	32.224406	-103.459484
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____