



Marathon Oil  
Lea County, NM  
Battle 34  
AV #25H  
Prelim Plan C  
GL: 3696 + KB: 25 (H&P594)

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

RKB Elevation: Well @ 3721.00usft (GL: 3696 + KB: 25 (H&P594))

+N/S	+E/W	Northing	Easting	Longitude	Slot
0.00	0.00	525064.11	739738.60	32.441117	-103.556237

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	VSecl
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	35.02	2297.47	35.64	24.98	2.00	-35.42
4	4884.47	10.00	35.02	4448.75	346.28	242.68	0.00	-344.10
5	4884.47	0.00	0.00	4848.21	381.92	267.86	2.00	-379.52
6	9005.25	0.00	0.00	8958.00	381.92	267.86	0.00	-379.52
7	3905.25	88.70	173.49	9554.60	-4695.23	312.75	10.00	4697.35
8	14410.71	88.70	173.49	9554.60	-4695.23	312.75	0.00	4697.35

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

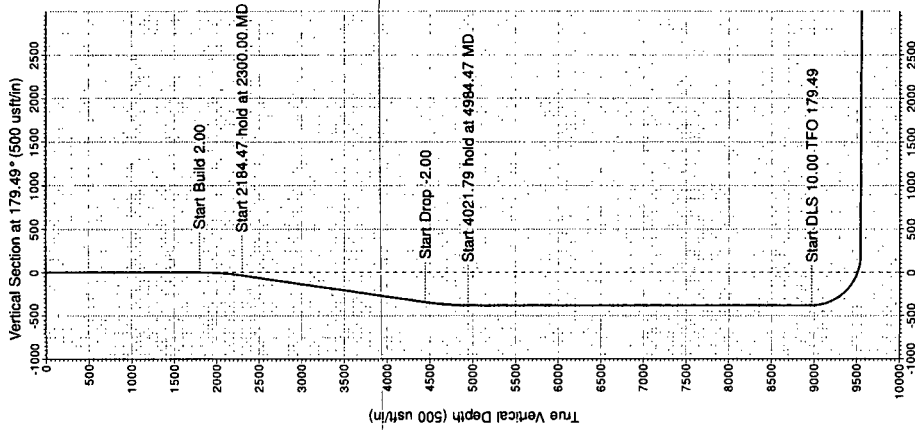
Name	TVD	+N/S	+E/W	Northing	Easting
[Battle34AV#25H]KOP	8968.00	381.92	267.86	525446.03	740006.26
[Battle34AV#25H]LTP/BHL	9564.60	-4695.23	312.75	520368.88	740051.35



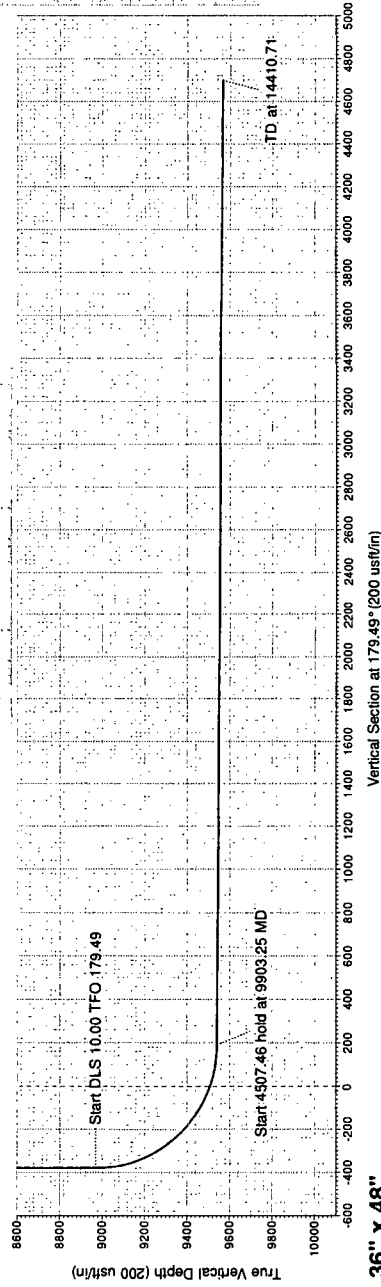
Altimeters to Grid North  
True North: 0.42°  
Magnetic North: 6.30°  
Magnetic Field  
Strength: 48.287nT  
Dip Angle: 60.28°  
Declination: 6.72° East  
Model: HD0M

Azimuth Corrections

Total Magnetic Corr. (M to G): 6.30°  
Declination (M to T): 6.72° East



Target Line: 9540' TVD @ 0° VS: 89.7° INC

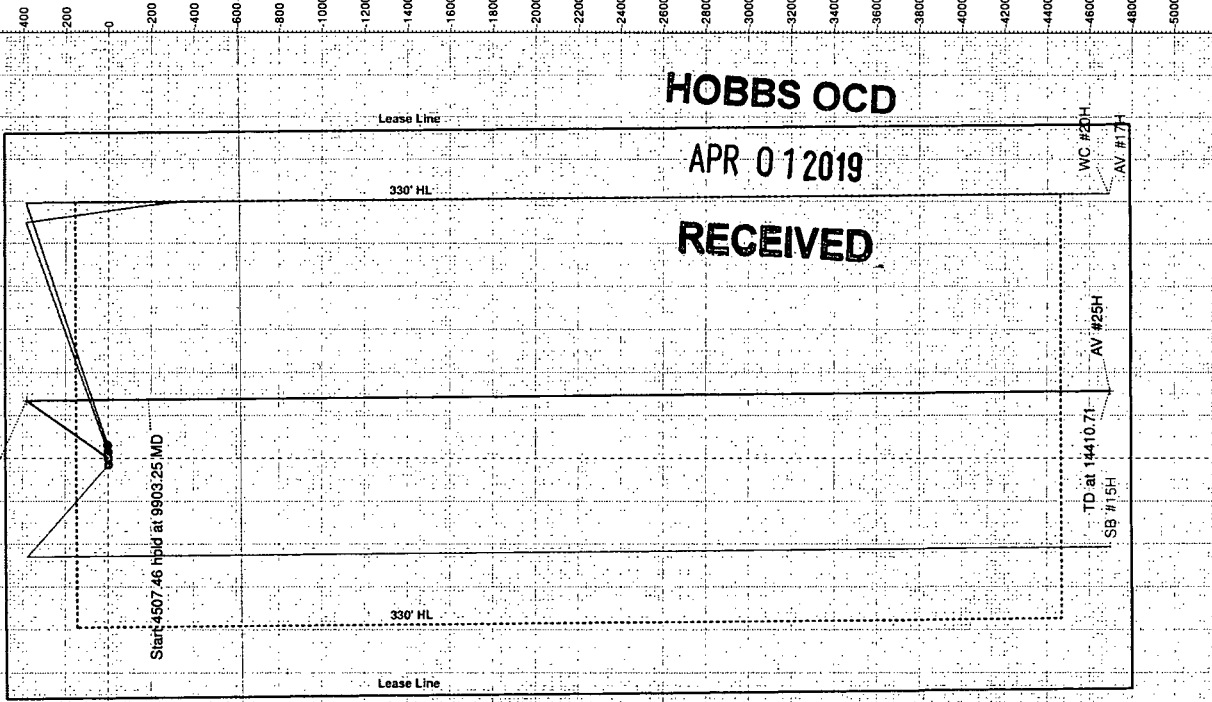


36" x 48"

West(-)/East(+): (200 usft/in)

South(-)/North(+): (200 usft/in)

HOBBS OCD  
APR 01 2019  
RECEIVED



Vertical Section at 179.49° (200 usft/in)



**Pro Directional**  
Survey Report



<b>Company:</b> Marathon Oil	<b>Local Co-ordinate Reference:</b> Well AV #25H
<b>Project:</b> Lea County, NM	<b>TVD Reference:</b> Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Site:</b> Battle 34	<b>MD Reference:</b> Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Well:</b> AV #25H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Prelim Plan C	<b>Database:</b> WellPlanner1

<b>Project</b> Lea County, NM	<b>System Datum:</b> Mean Sea Level
<b>Map System:</b> US State Plane 1927 (Exact solution)	
<b>Geo Datum:</b> NAD 1927 (NADCON CONUS)	
<b>Map Zone:</b> New Mexico East 3001	

<b>Site</b> Battle 34				
<b>Site Position:</b>	<b>Northing:</b> 525,062.61 usft	<b>Latitude:</b> 32.441113		
<b>From:</b> Map	<b>Easting:</b> 739,708.64 usft	<b>Longitude:</b> -103.556334		
<b>Position Uncertainty:</b> 0.00 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 0.42 °		

<b>Well</b> AV #25H				
<b>Well Position</b>	<b>+N/-S</b> 0.00 usft	<b>Northing:</b> 525,064.11 usft	<b>Latitude:</b> 32.441117	
	<b>+E/-W</b> 0.00 usft	<b>Easting:</b> 739,738.60 usft	<b>Longitude:</b> -103.556237	
<b>Position Uncertainty</b> 0.00 usft		<b>Wellhead Elevation:</b> usft	<b>Ground Level:</b> 3,696.00 usft	

<b>Wellbore</b> OH					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b> (°)	<b>Dip Angle</b> (°)	<b>Field Strength</b> (nT)
	HDGM	10/23/2018	6.72	60.28	48,128.70

<b>Design</b> Prelim Plan C				
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b> PLAN	<b>Tie On Depth:</b> 0.00		
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	179.49

<b>Survey Tool Program</b>	<b>Date</b> 2/12/2019			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	1,850.00	Prelim Plan C (OH)	MWD+IFR1	OWSG MWD + IFR1
1,850.00	5,400.00	Prelim Plan C (OH)	MWD+IFR1	OWSG MWD + IFR1
5,400.00	10,000.00	Prelim Plan C (OH)	MWD+IFR1	OWSG MWD + IFR1
10,000.00	14,410.71	Prelim Plan C (OH)	MWD+IFR1	OWSG MWD + IFR1

<b>Planned Survey</b>									
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>
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

<b>Company:</b> Marathon Oil	<b>Local Co-ordinate Reference:</b> Well AV #25H
<b>Project:</b> Lea County, NM	<b>TVD Reference:</b> Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Site:</b> Battle 34	<b>MD Reference:</b> Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Well:</b> AV #25H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Prelim Plan C	<b>Database:</b> 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)	
600.00	0.00	0.00	600.00	0.00	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	0.00
800.00	0.00	0.00	800.00	0.00	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	0.00
1,000.00	0.00	0.00	1,000.00	0.00	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	0.00
1,200.00	0.00	0.00	1,200.00	0.00	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	0.00
1,400.00	0.00	0.00	1,400.00	0.00	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	0.00
1,600.00	0.00	0.00	1,600.00	0.00	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	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	2.00	35.02	1,899.98	1.43	1.00	-1.42	2.00	2.00	0.00	0.00
2,000.00	4.00	35.02	1,999.84	5.71	4.01	-5.68	2.00	2.00	0.00	0.00
2,100.00	6.00	35.02	2,099.45	12.85	9.01	-12.77	2.00	2.00	0.00	0.00
2,200.00	8.00	35.02	2,198.70	22.83	16.00	-22.69	2.00	2.00	0.00	0.00
2,300.00	10.00	35.02	2,297.47	35.64	24.98	-35.42	2.00	2.00	0.00	0.00
2,400.00	10.00	35.02	2,395.95	49.86	34.94	-49.55	0.00	0.00	0.00	0.00
2,500.00	10.00	35.02	2,494.43	64.08	44.91	-63.68	0.00	0.00	0.00	0.00
2,600.00	10.00	35.02	2,592.91	78.30	54.88	-77.81	0.00	0.00	0.00	0.00
2,700.00	10.00	35.02	2,691.39	92.52	64.84	-91.94	0.00	0.00	0.00	0.00
2,800.00	10.00	35.02	2,789.87	106.74	74.81	-106.07	0.00	0.00	0.00	0.00
2,900.00	10.00	35.02	2,888.35	120.96	84.77	-120.20	0.00	0.00	0.00	0.00
3,000.00	10.00	35.02	2,986.83	135.18	94.74	-134.33	0.00	0.00	0.00	0.00
3,100.00	10.00	35.02	3,085.31	149.40	104.71	-148.47	0.00	0.00	0.00	0.00
3,200.00	10.00	35.02	3,183.79	163.62	114.67	-162.60	0.00	0.00	0.00	0.00
3,300.00	10.00	35.02	3,282.27	177.84	124.64	-176.73	0.00	0.00	0.00	0.00
3,400.00	10.00	35.02	3,380.75	192.06	134.60	-190.86	0.00	0.00	0.00	0.00
3,500.00	10.00	35.02	3,479.23	206.28	144.57	-204.99	0.00	0.00	0.00	0.00
3,600.00	10.00	35.02	3,577.72	220.50	154.54	-219.12	0.00	0.00	0.00	0.00
3,700.00	10.00	35.02	3,676.20	234.73	164.50	-233.25	0.00	0.00	0.00	0.00
3,800.00	10.00	35.02	3,774.68	248.95	174.47	-247.38	0.00	0.00	0.00	0.00
3,900.00	10.00	35.02	3,873.16	263.17	184.43	-261.51	0.00	0.00	0.00	0.00
4,000.00	10.00	35.02	3,971.64	277.39	194.40	-275.64	0.00	0.00	0.00	0.00
4,100.00	10.00	35.02	4,070.12	291.61	204.37	-289.78	0.00	0.00	0.00	0.00
4,200.00	10.00	35.02	4,168.60	305.83	214.33	-303.91	0.00	0.00	0.00	0.00
4,300.00	10.00	35.02	4,267.08	320.05	224.30	-318.04	0.00	0.00	0.00	0.00
4,400.00	10.00	35.02	4,365.56	334.27	234.26	-332.17	0.00	0.00	0.00	0.00
4,484.47	10.00	35.02	4,448.75	346.28	242.68	-344.10	0.00	0.00	0.00	0.00
4,500.00	9.69	35.02	4,464.05	348.45	244.21	-346.27	2.00	-2.00	0.00	0.00
4,600.00	7.69	35.02	4,562.90	360.82	252.88	-358.56	2.00	-2.00	0.00	0.00

**Company:** Marathon Oil  
**Project:** Lea County, NM  
**Site:** Battle 34  
**Well:** AV #25H  
**Wellbore:** OH  
**Design:** Prelim Plan C

**Local Co-ordinate Reference:** Well AV #25H  
**TVD Reference:** Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))  
**MD Reference:** Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))  
**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)
4,700.00	5.69	35.02	4,662.21	370.36	259.56	-368.04	2.00	-2.00	0.00
4,800.00	3.69	35.02	4,761.87	377.06	264.25	-374.69	2.00	-2.00	0.00
4,900.00	1.69	35.02	4,861.76	380.90	266.95	-378.51	2.00	-2.00	0.00
4,984.47	0.00	0.00	4,946.21	381.92	267.66	-379.52	2.00	-2.00	0.00
5,000.00	0.00	0.00	4,961.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,100.00	0.00	0.00	5,061.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,200.00	0.00	0.00	5,161.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,300.00	0.00	0.00	5,261.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,400.00	0.00	0.00	5,361.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,500.00	0.00	0.00	5,461.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,600.00	0.00	0.00	5,561.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,700.00	0.00	0.00	5,661.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,800.00	0.00	0.00	5,761.74	381.92	267.66	-379.52	0.00	0.00	0.00
5,900.00	0.00	0.00	5,861.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,000.00	0.00	0.00	5,961.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,100.00	0.00	0.00	6,061.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,200.00	0.00	0.00	6,161.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,300.00	0.00	0.00	6,261.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,400.00	0.00	0.00	6,361.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,500.00	0.00	0.00	6,461.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,600.00	0.00	0.00	6,561.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,700.00	0.00	0.00	6,661.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,800.00	0.00	0.00	6,761.74	381.92	267.66	-379.52	0.00	0.00	0.00
6,900.00	0.00	0.00	6,861.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,000.00	0.00	0.00	6,961.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,100.00	0.00	0.00	7,061.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,200.00	0.00	0.00	7,161.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,300.00	0.00	0.00	7,261.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,400.00	0.00	0.00	7,361.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,500.00	0.00	0.00	7,461.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,600.00	0.00	0.00	7,561.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,700.00	0.00	0.00	7,661.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,800.00	0.00	0.00	7,761.74	381.92	267.66	-379.52	0.00	0.00	0.00
7,900.00	0.00	0.00	7,861.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,000.00	0.00	0.00	7,961.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,100.00	0.00	0.00	8,061.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,200.00	0.00	0.00	8,161.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,300.00	0.00	0.00	8,261.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,400.00	0.00	0.00	8,361.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,500.00	0.00	0.00	8,461.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,600.00	0.00	0.00	8,561.74	381.92	267.66	-379.52	0.00	0.00	0.00
8,700.00	0.00	0.00	8,661.74	381.92	267.66	-379.52	0.00	0.00	0.00

<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well AV #25H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Site:</b>	Battle 34	<b>MD Reference:</b>	Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Well:</b>	AV #25H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan C	<b>Database:</b>	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)	
8,800.00	0.00	0.00	8,761.74	381.92	267.66	-379.52	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,861.74	381.92	267.66	-379.52	0.00	0.00	0.00	
9,006.26	0.00	0.00	8,968.00	381.92	267.66	-379.52	0.00	0.00	0.00	
<b>[Battle34AV#25H]KOP</b>										
9,050.00	4.37	179.49	9,011.70	380.25	267.67	-377.85	10.00	10.00	0.00	
9,100.00	9.37	179.49	9,061.33	374.27	267.73	-371.87	10.00	10.00	0.00	
9,150.00	14.37	179.49	9,110.24	363.98	267.82	-361.59	10.00	10.00	0.00	
9,200.00	19.37	179.49	9,158.07	349.48	267.95	-347.08	10.00	10.00	0.00	
9,250.00	24.37	179.49	9,204.46	330.85	268.11	-328.45	10.00	10.00	0.00	
9,300.00	29.37	179.49	9,249.04	308.26	268.31	-305.86	10.00	10.00	0.00	
9,350.00	34.37	179.49	9,291.49	281.87	268.55	-279.46	10.00	10.00	0.00	
9,400.00	39.37	179.49	9,331.48	251.87	268.81	-249.47	10.00	10.00	0.00	
9,450.00	44.37	179.49	9,368.69	218.51	269.11	-216.11	10.00	10.00	0.00	
9,500.00	49.37	179.49	9,402.86	182.03	269.44	-179.63	10.00	10.00	0.00	
9,550.00	54.37	179.49	9,433.72	142.71	269.78	-140.30	10.00	10.00	0.00	
9,600.00	59.37	179.49	9,461.04	100.85	270.16	-98.44	10.00	10.00	0.00	
9,650.00	64.37	179.49	9,484.60	56.77	270.55	-54.36	10.00	10.00	0.00	
9,700.00	69.37	179.49	9,504.23	10.81	270.96	-8.39	10.00	10.00	0.00	
9,750.00	74.37	179.49	9,519.78	-36.69	271.38	39.11	10.00	10.00	0.00	
9,800.00	79.37	179.49	9,531.13	-85.37	271.81	87.79	10.00	10.00	0.00	
9,850.00	84.37	179.49	9,538.20	-134.85	272.25	137.27	10.00	10.00	0.00	
9,903.25	89.70	179.49	9,540.95	-188.01	272.72	190.43	10.00	10.00	0.00	
10,000.00	89.70	179.49	9,541.46	-284.75	273.58	287.18	0.00	0.00	0.00	
10,100.00	89.70	179.49	9,541.98	-384.75	274.47	387.18	0.00	0.00	0.00	
10,200.00	89.70	179.49	9,542.51	-484.74	275.36	487.18	0.00	0.00	0.00	
10,300.00	89.70	179.49	9,543.03	-584.74	276.24	587.17	0.00	0.00	0.00	
10,400.00	89.70	179.49	9,543.56	-684.73	277.13	687.17	0.00	0.00	0.00	
10,500.00	89.70	179.49	9,544.08	-784.73	278.02	787.17	0.00	0.00	0.00	
10,600.00	89.70	179.49	9,544.61	-884.72	278.91	887.17	0.00	0.00	0.00	
10,700.00	89.70	179.49	9,545.13	-984.72	279.80	987.17	0.00	0.00	0.00	
10,800.00	89.70	179.49	9,545.66	-1,084.71	280.69	1,087.17	0.00	0.00	0.00	
10,900.00	89.70	179.49	9,546.18	-1,184.71	281.57	1,187.17	0.00	0.00	0.00	
11,000.00	89.70	179.49	9,546.70	-1,284.70	282.46	1,287.16	0.00	0.00	0.00	
11,100.00	89.70	179.49	9,547.23	-1,384.70	283.35	1,387.16	0.00	0.00	0.00	
11,200.00	89.70	179.49	9,547.75	-1,484.69	284.24	1,487.16	0.00	0.00	0.00	
11,300.00	89.70	179.49	9,548.28	-1,584.68	285.13	1,587.16	0.00	0.00	0.00	
11,400.00	89.70	179.49	9,548.80	-1,684.68	286.01	1,687.16	0.00	0.00	0.00	
11,500.00	89.70	179.49	9,549.33	-1,784.67	286.90	1,787.16	0.00	0.00	0.00	
11,600.00	89.70	179.49	9,549.85	-1,884.67	287.79	1,887.16	0.00	0.00	0.00	
11,700.00	89.70	179.49	9,550.38	-1,984.66	288.68	1,987.15	0.00	0.00	0.00	
11,800.00	89.70	179.49	9,550.90	-2,084.66	289.57	2,087.15	0.00	0.00	0.00	
11,900.00	89.70	179.49	9,551.43	-2,184.65	290.45	2,187.15	0.00	0.00	0.00	

<b>Company:</b> Marathon Oil	<b>Local Co-ordinate Reference:</b> Well AV #25H
<b>Project:</b> Lea County, NM	<b>TVD Reference:</b> Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Site:</b> Battle 34	<b>MD Reference:</b> Well @ 3721.00usft (GL: 3696' + KB: 25' (H&P594))
<b>Well:</b> AV #25H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Prelim Plan C	<b>Database:</b> 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)	
12,000.00	89.70	179.49	9,551.95	-2,284.65	291.34	2,287.15	0.00	0.00	0.00	
12,100.00	89.70	179.49	9,552.48	-2,384.64	292.23	2,387.15	0.00	0.00	0.00	
12,200.00	89.70	179.49	9,553.00	-2,484.64	293.12	2,487.15	0.00	0.00	0.00	
12,300.00	89.70	179.49	9,553.53	-2,584.63	294.01	2,587.15	0.00	0.00	0.00	
12,400.00	89.70	179.49	9,554.05	-2,684.63	294.89	2,687.14	0.00	0.00	0.00	
12,500.00	89.70	179.49	9,554.57	-2,784.62	295.78	2,787.14	0.00	0.00	0.00	
12,600.00	89.70	179.49	9,555.10	-2,884.62	296.67	2,887.14	0.00	0.00	0.00	
12,700.00	89.70	179.49	9,555.62	-2,984.61	297.56	2,987.14	0.00	0.00	0.00	
12,800.00	89.70	179.49	9,556.15	-3,084.61	298.45	3,087.14	0.00	0.00	0.00	
12,900.00	89.70	179.49	9,556.67	-3,184.60	299.33	3,187.14	0.00	0.00	0.00	
13,000.00	89.70	179.49	9,557.20	-3,284.59	300.22	3,287.14	0.00	0.00	0.00	
13,100.00	89.70	179.49	9,557.72	-3,384.59	301.11	3,387.14	0.00	0.00	0.00	
13,200.00	89.70	179.49	9,558.25	-3,484.58	302.00	3,487.13	0.00	0.00	0.00	
13,300.00	89.70	179.49	9,558.77	-3,584.58	302.89	3,587.13	0.00	0.00	0.00	
13,400.00	89.70	179.49	9,559.30	-3,684.57	303.77	3,687.13	0.00	0.00	0.00	
13,500.00	89.70	179.49	9,559.82	-3,784.57	304.66	3,787.13	0.00	0.00	0.00	
13,600.00	89.70	179.49	9,560.35	-3,884.56	305.55	3,887.13	0.00	0.00	0.00	
13,700.00	89.70	179.49	9,560.87	-3,984.56	306.44	3,987.13	0.00	0.00	0.00	
13,800.00	89.70	179.49	9,561.40	-4,084.55	307.33	4,087.13	0.00	0.00	0.00	
13,900.00	89.70	179.49	9,561.92	-4,184.55	308.21	4,187.12	0.00	0.00	0.00	
14,000.00	89.70	179.49	9,562.45	-4,284.54	309.10	4,287.12	0.00	0.00	0.00	
14,100.00	89.70	179.49	9,562.97	-4,384.54	309.99	4,387.12	0.00	0.00	0.00	
14,200.00	89.70	179.49	9,563.49	-4,484.53	310.88	4,487.12	0.00	0.00	0.00	
14,300.00	89.70	179.49	9,564.02	-4,584.53	311.77	4,587.12	0.00	0.00	0.00	
14,400.00	89.70	179.49	9,564.54	-4,684.52	312.65	4,687.12	0.00	0.00	0.00	
14,410.71	89.70	179.49	9,564.60	-4,695.23	312.75	4,697.83	0.00	0.00	0.00	
[Battle34AV#25H]LTP/BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
[Battle34AV#25H]KOP - hit/miss target - Shape - Point	0.00	0.00	8,968.00	381.92	267.66	525,446.03	740,006.26	32.442161	-103.555360	
[Battle34AV#25H]LTP/BI - plan hits target center - Point	0.00	0.01	9,564.60	-4,695.23	312.75	520,368.88	740,051.35	32.428205	-103.555334	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_