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Azimuths to True North

Magnetic North: 10.74°

Magnetic Field

Strength: 52601.0snT

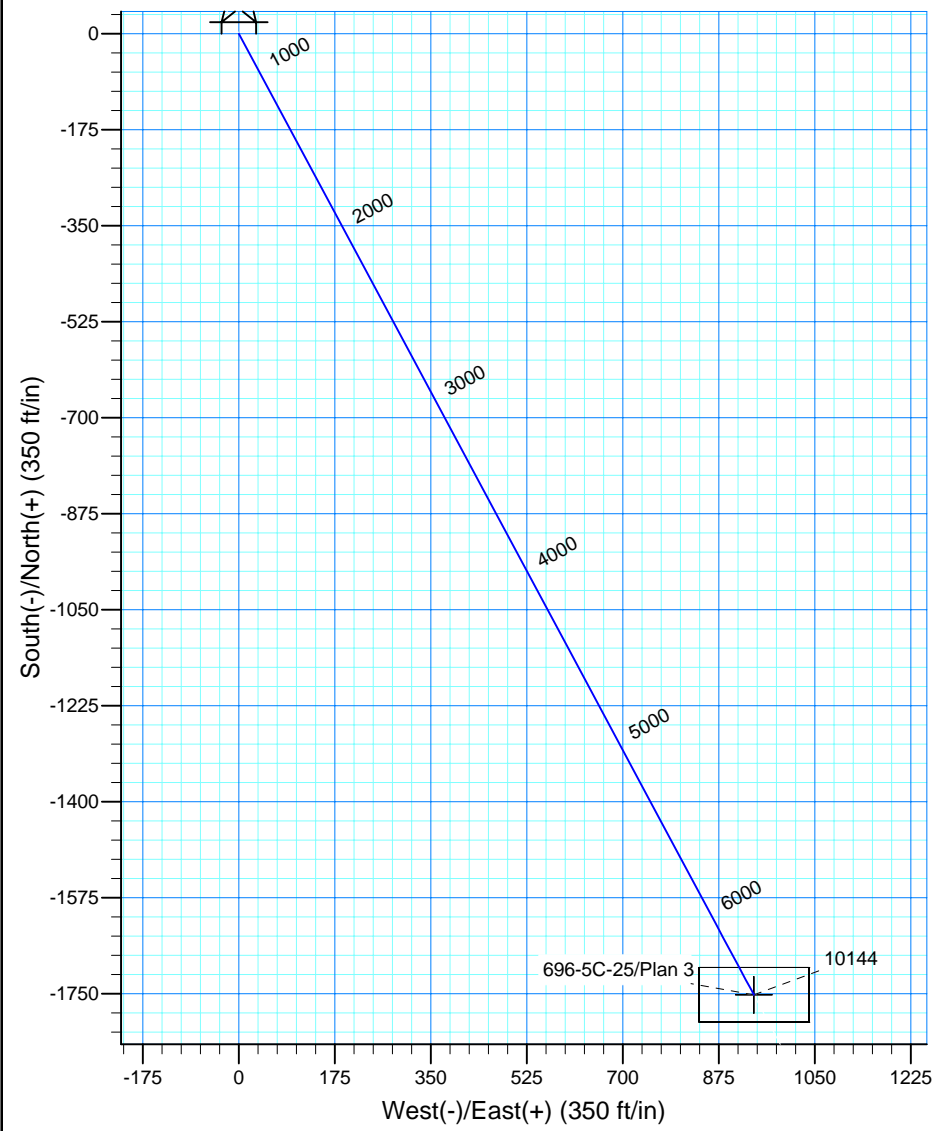
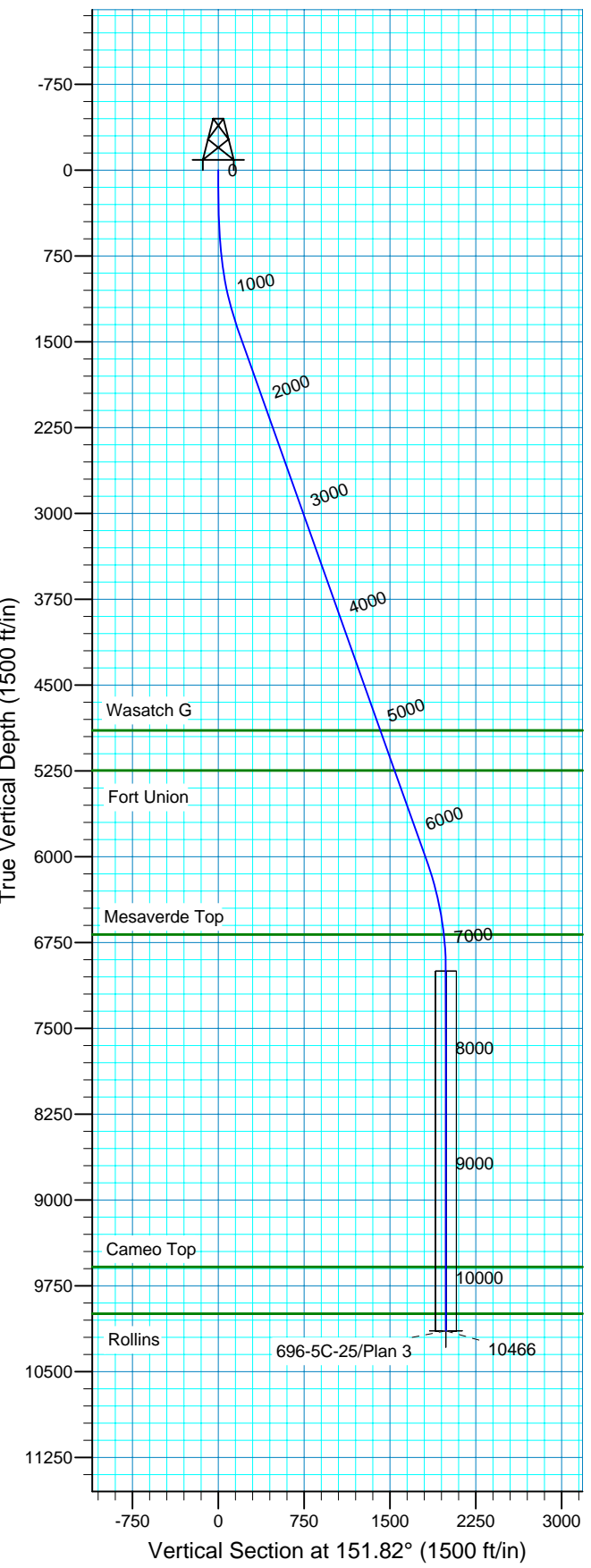
Dip Angle: 65.84°

Date: 10/30/2008

Model: IGRF2005-10

WELL DETAILS: 696-5C-25

		Ground Level: GL 8129' & RKB 24' @ 8153.00ft				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	C
0.00	0.00	1637742.42	2256984.49	39° 33' 17.243 N	108° 8' 7.878 W	



FORMATION TOP DETAILS				Plan: Plan 3 (696-5C-25/OH)	
TVDPath	MDPath	Formation		Created By: Laura Turner	Date: 2008-12-4
4896.00	5128.88	Wasatch G		PROJECT DETAILS: Garfield County, CO NAD 83	
5246.00	5500.32	Fort Union			
6680.00	7001.25	Mesaverde Top			
9585.00	9906.92	Cameo Top			
9994.00	0315.92	Rollins		Geodetic System: US State Plane 1983	
				Datum: North American Datum 1983	
				Ellipsoid: GRS 1980	
				Zone: Colorado Central Zone	
				System Datum: Mean Sea Level	
				Local North: True	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	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	
700.00	5.00	151.82	699.37	-19.22	10.30	1.00	151.82	21.80	696-5C-25 PBHL Plan 2
1428.24	19.56	151.82	1409.02	-155.40	83.26	2.00	0.00	176.30	
6343.68	19.56	151.82	6040.66	-1606.31	860.65	0.00	0.00	1822.35	
7321.92	0.00	0.00	7000.00	-1752.11	938.76	2.00	180.00	1987.75	
10465.92	0.00	0.00	10144.00	-1752.11	938.76	0.00	0.00	1987.75	696-5C-25 PBHL Plan 2

Marathon Oil Co.

Garfield County, CO NAD 83

696-5C Pad

696-5C-25 - Slot C

OH

Plan: Plan 3

Standard Planning Report

04 December, 2008

Scientific Drilling

Planning Report

Database:	EDM2003.16 MultiuserDB	Local Co-ordinate Reference:	Well 696-5C-25 - Slot C
Company:	Marathon Oil Co.	TVD Reference:	GL 8129' & RKB 24' @ 8153.00ft
Project:	Garfield County, CO NAD 83	MD Reference:	GL 8129' & RKB 24' @ 8153.00ft
Site:	696-5C Pad	North Reference:	True
Well:	696-5C-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3		

Project	Garfield County, CO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		696-5C Pad, Sec 5 T6S R96W			
Site Position:		Northing:	1,637,733.57 ft	Latitude:	39° 33' 17.154 N
From:	Map	Easting:	2,256,980.11 ft	Longitude:	108° 8' 7.931 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	-1.66 °

Well	696-5C-25 - Slot C, 3501' FNL 1327' FEL					
Well Position	+N/-S	0.00 ft	Northing:	1,637,742.42 ft	Latitude:	39° 33' 17.243 N
	+E/-W	0.00 ft	Easting:	2,256,984.49 ft	Longitude:	108° 8' 7.878 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,129.00 ft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	10/30/2008	10.75	65.84	52,601

Design	Plan 3				
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Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	151.82	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
700.00	5.00	151.82	699.37	-19.22	10.30	1.00	1.00	0.00	151.82	696-5C-25 PBHL P
1,428.24	19.56	151.82	1,409.02	-155.40	83.26	2.00	2.00	0.00	0.00	
6,343.68	19.56	151.82	6,040.66	-1,606.31	860.65	0.00	0.00	0.00	0.00	
7,321.92	0.00	0.00	7,000.00	-1,752.11	938.76	2.00	-2.00	0.00	180.00	
10,465.92	0.00	0.00	10,144.00	-1,752.11	938.76	0.00	0.00	0.00	0.00	696-5C-25 PBHL P

Scientific Drilling

Planning Report

Database: EDM2003.16 MultiuserDB
Company: Marathon Oil Co.
Project: Garfield County, CO NAD 83
Site: 696-5C Pad
Well: 696-5C-25
Wellbore: OH
Design: Plan 3

Local Co-ordinate Reference: Well 696-5C-25 - Slot C
TVD Reference: GL 8129' & RKB 24' @ 8153.00ft
MD Reference: GL 8129' & RKB 24' @ 8153.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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	1.00	151.82	299.99	-0.77	0.41	0.87	1.00	1.00	0.00
400.00	2.00	151.82	399.96	-3.08	1.65	3.49	1.00	1.00	0.00
500.00	3.00	151.82	499.86	-6.92	3.71	7.85	1.00	1.00	0.00
600.00	4.00	151.82	599.68	-12.30	6.59	13.96	1.00	1.00	0.00
700.00	5.00	151.82	699.37	-19.22	10.30	21.80	1.00	1.00	0.00
800.00	7.00	151.82	798.81	-28.43	15.23	32.26	2.00	2.00	0.00
900.00	9.00	151.82	897.83	-40.70	21.81	46.17	2.00	2.00	0.00
1,000.00	11.00	151.82	996.31	-56.00	30.01	63.54	2.00	2.00	0.00
1,100.00	13.00	151.82	1,094.12	-74.33	39.82	84.33	2.00	2.00	0.00
1,200.00	15.00	151.82	1,191.14	-95.65	51.25	108.52	2.00	2.00	0.00
1,300.00	17.00	151.82	1,287.27	-119.95	64.27	136.08	2.00	2.00	0.00
1,400.00	19.00	151.82	1,382.37	-147.18	78.86	166.98	2.00	2.00	0.00
1,428.24	19.56	151.82	1,409.02	-155.40	83.26	176.30	2.00	2.00	0.00
1,500.00	19.56	151.82	1,476.64	-176.59	94.61	200.34	0.00	0.00	0.00
1,600.00	19.56	151.82	1,570.87	-206.10	110.43	233.82	0.00	0.00	0.00
1,700.00	19.56	151.82	1,665.09	-235.62	126.24	267.31	0.00	0.00	0.00
1,800.00	19.56	151.82	1,759.32	-265.14	142.06	300.80	0.00	0.00	0.00
1,900.00	19.56	151.82	1,853.54	-294.66	157.87	334.28	0.00	0.00	0.00
2,000.00	19.56	151.82	1,947.77	-324.17	173.69	367.77	0.00	0.00	0.00
2,100.00	19.56	151.82	2,042.00	-353.69	189.50	401.26	0.00	0.00	0.00
2,200.00	19.56	151.82	2,136.22	-383.21	205.32	434.75	0.00	0.00	0.00
2,300.00	19.56	151.82	2,230.45	-412.72	221.13	468.23	0.00	0.00	0.00
2,400.00	19.56	151.82	2,324.68	-442.24	236.95	501.72	0.00	0.00	0.00
2,500.00	19.56	151.82	2,418.90	-471.76	252.76	535.21	0.00	0.00	0.00
2,600.00	19.56	151.82	2,513.13	-501.28	268.58	568.69	0.00	0.00	0.00
2,700.00	19.56	151.82	2,607.36	-530.79	284.39	602.18	0.00	0.00	0.00
2,800.00	19.56	151.82	2,701.58	-560.31	300.21	635.67	0.00	0.00	0.00
2,900.00	19.56	151.82	2,795.81	-589.83	316.02	669.16	0.00	0.00	0.00
3,000.00	19.56	151.82	2,890.03	-619.35	331.84	702.64	0.00	0.00	0.00
3,100.00	19.56	151.82	2,984.26	-648.86	347.65	736.13	0.00	0.00	0.00
3,200.00	19.56	151.82	3,078.49	-678.38	363.47	769.62	0.00	0.00	0.00
3,300.00	19.56	151.82	3,172.71	-707.90	379.28	803.10	0.00	0.00	0.00
3,400.00	19.56	151.82	3,266.94	-737.42	395.10	836.59	0.00	0.00	0.00
3,500.00	19.56	151.82	3,361.17	-766.93	410.91	870.08	0.00	0.00	0.00
3,600.00	19.56	151.82	3,455.39	-796.45	426.73	903.57	0.00	0.00	0.00
3,700.00	19.56	151.82	3,549.62	-825.97	442.55	937.05	0.00	0.00	0.00
3,800.00	19.56	151.82	3,643.85	-855.49	458.36	970.54	0.00	0.00	0.00
3,900.00	19.56	151.82	3,738.07	-885.00	474.18	1,004.03	0.00	0.00	0.00
4,000.00	19.56	151.82	3,832.30	-914.52	489.99	1,037.52	0.00	0.00	0.00
4,100.00	19.56	151.82	3,926.52	-944.04	505.81	1,071.00	0.00	0.00	0.00
4,200.00	19.56	151.82	4,020.75	-973.55	521.62	1,104.49	0.00	0.00	0.00
4,300.00	19.56	151.82	4,114.98	-1,003.07	537.44	1,137.98	0.00	0.00	0.00
4,400.00	19.56	151.82	4,209.20	-1,032.59	553.25	1,171.46	0.00	0.00	0.00
4,500.00	19.56	151.82	4,303.43	-1,062.11	569.07	1,204.95	0.00	0.00	0.00
4,600.00	19.56	151.82	4,397.66	-1,091.62	584.88	1,238.44	0.00	0.00	0.00
4,700.00	19.56	151.82	4,491.88	-1,121.14	600.70	1,271.93	0.00	0.00	0.00
4,800.00	19.56	151.82	4,586.11	-1,150.66	616.51	1,305.41	0.00	0.00	0.00
4,900.00	19.56	151.82	4,680.34	-1,180.18	632.33	1,338.90	0.00	0.00	0.00
5,000.00	19.56	151.82	4,774.56	-1,209.69	648.14	1,372.39	0.00	0.00	0.00
5,100.00	19.56	151.82	4,868.79	-1,239.21	663.96	1,405.87	0.00	0.00	0.00
5,128.88	19.56	151.82	4,896.00	-1,247.74	668.52	1,415.54	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	EDM2003.16 MultiuserDB	Local Co-ordinate Reference:	Well 696-5C-25 - Slot C
Company:	Marathon Oil Co.	TVD Reference:	GL 8129' & RKB 24' @ 8153.00ft
Project:	Garfield County, CO NAD 83	MD Reference:	GL 8129' & RKB 24' @ 8153.00ft
Site:	696-5C Pad	North Reference:	True
Well:	696-5C-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Wasatch G									
5,200.00	19.56	151.82	4,963.01	-1,268.73	679.77	1,439.36	0.00	0.00	0.00
5,300.00	19.56	151.82	5,057.24	-1,298.25	695.59	1,472.85	0.00	0.00	0.00
5,400.00	19.56	151.82	5,151.47	-1,327.76	711.40	1,506.34	0.00	0.00	0.00
5,500.00	19.56	151.82	5,245.69	-1,357.28	727.22	1,539.82	0.00	0.00	0.00
5,500.32	19.56	151.82	5,246.00	-1,357.38	727.27	1,539.93	0.00	0.00	0.00
Fort Union									
5,600.00	19.56	151.82	5,339.92	-1,386.80	743.03	1,573.31	0.00	0.00	0.00
5,700.00	19.56	151.82	5,434.15	-1,416.32	758.85	1,606.80	0.00	0.00	0.00
5,800.00	19.56	151.82	5,528.37	-1,445.83	774.66	1,640.28	0.00	0.00	0.00
5,900.00	19.56	151.82	5,622.60	-1,475.35	790.48	1,673.77	0.00	0.00	0.00
6,000.00	19.56	151.82	5,716.83	-1,504.87	806.29	1,707.26	0.00	0.00	0.00
6,100.00	19.56	151.82	5,811.05	-1,534.38	822.11	1,740.75	0.00	0.00	0.00
6,200.00	19.56	151.82	5,905.28	-1,563.90	837.92	1,774.23	0.00	0.00	0.00
6,300.00	19.56	151.82	5,999.50	-1,593.42	853.74	1,807.72	0.00	0.00	0.00
6,343.68	19.56	151.82	6,040.66	-1,606.31	860.65	1,822.35	0.00	0.00	0.00
6,400.00	18.44	151.82	6,093.91	-1,622.48	869.31	1,840.68	2.00	-2.00	0.00
6,500.00	16.44	151.82	6,189.31	-1,648.89	883.46	1,870.65	2.00	-2.00	0.00
6,600.00	14.44	151.82	6,285.70	-1,672.35	896.03	1,897.27	2.00	-2.00	0.00
6,700.00	12.44	151.82	6,382.96	-1,692.84	907.00	1,920.51	2.00	-2.00	0.00
6,800.00	10.44	151.82	6,480.97	-1,710.32	916.37	1,940.34	2.00	-2.00	0.00
6,900.00	8.44	151.82	6,579.61	-1,724.77	924.11	1,956.74	2.00	-2.00	0.00
7,000.00	6.44	151.82	6,678.76	-1,736.18	930.23	1,969.68	2.00	-2.00	0.00
7,001.25	6.41	151.82	6,680.00	-1,736.30	930.29	1,969.82	2.00	-2.00	0.00
Mesaverde Top									
7,100.00	4.44	151.82	6,778.30	-1,744.53	934.70	1,979.16	2.00	-2.00	0.00
7,200.00	2.44	151.82	6,878.12	-1,749.82	937.54	1,985.16	2.00	-2.00	0.00
7,300.00	0.44	151.82	6,978.08	-1,752.03	938.72	1,987.67	2.00	-2.00	0.00
7,321.92	0.00	0.00	7,000.00	-1,752.11	938.76	1,987.75	2.00	-2.00	0.00
7,400.00	0.00	0.00	7,078.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
7,500.00	0.00	0.00	7,178.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
7,600.00	0.00	0.00	7,278.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
7,700.00	0.00	0.00	7,378.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
7,800.00	0.00	0.00	7,478.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
7,900.00	0.00	0.00	7,578.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,000.00	0.00	0.00	7,678.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,100.00	0.00	0.00	7,778.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,200.00	0.00	0.00	7,878.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,300.00	0.00	0.00	7,978.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,400.00	0.00	0.00	8,078.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,500.00	0.00	0.00	8,178.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,600.00	0.00	0.00	8,278.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,700.00	0.00	0.00	8,378.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,800.00	0.00	0.00	8,478.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
8,900.00	0.00	0.00	8,578.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,000.00	0.00	0.00	8,678.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,100.00	0.00	0.00	8,778.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,200.00	0.00	0.00	8,878.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,300.00	0.00	0.00	8,978.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,400.00	0.00	0.00	9,078.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,500.00	0.00	0.00	9,178.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,600.00	0.00	0.00	9,278.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,700.00	0.00	0.00	9,378.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database: EDM2003.16 MultiuserDB
Company: Marathon Oil Co.
Project: Garfield County, CO NAD 83
Site: 696-5C Pad
Well: 696-5C-25
Wellbore: OH
Design: Plan 3

Local Co-ordinate Reference: Well 696-5C-25 - Slot C
TVD Reference: GL 8129' & RKB 24' @ 8153.00ft
MD Reference: GL 8129' & RKB 24' @ 8153.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,800.00	0.00	0.00	9,478.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,900.00	0.00	0.00	9,578.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
9,906.92	0.00	0.00	9,585.00	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
Cameo Top									
10,000.00	0.00	0.00	9,678.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
10,100.00	0.00	0.00	9,778.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
10,200.00	0.00	0.00	9,878.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
10,300.00	0.00	0.00	9,978.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
10,315.92	0.00	0.00	9,994.00	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
Rollins									
10,400.00	0.00	0.00	10,078.08	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
10,453.92	0.00	0.00	10,132.00	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
696-5C-25 PBHL									
10,465.92	0.00	0.00	10,144.00	-1,752.11	938.76	1,987.75	0.00	0.00	0.00
696-5C-25 PBHL Plan 2									

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
696-5C-25 PBHL	0.00	0.00	10,132.00	-1,759.36	688.86	1,635,963.82	2,257,622.03	39° 32' 59.855 N	108° 7' 59.084 W
- plan misses target center by 250.00ft at 10453.92ft MD (10132.00 TVD, -1752.11 N, 938.76 E)									
- Rectangle (sides W100.00 H200.00 D0.00)									
696-5C-25 PBHL Plar	0.00	0.00	10,144.00	-1,752.11	938.76	1,635,963.82	2,257,872.03	39° 32' 59.926 N	108° 7' 55.894 W
- plan hits target center									
- Rectangle (sides W100.00 H200.00 D0.00)									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,128.88	4,896.00	Wasatch G		0.00	
5,500.32	5,246.00	Fort Union		0.00	
7,001.25	6,680.00	Mesaverde Top		0.00	
9,906.92	9,585.00	Cameo Top		0.00	
10,315.92	9,994.00	Rollins		0.00	