



Weatherford®

Drilling Services

Proposal

MARATHON OIL

596-34D-16

GARFIELD COUNTY, CO

WELL FILE: PLAN 1

FEBRUARY 29, 2008

Weatherford International Ltd.

2690 Oil Drive

Casper, Wyoming 82604

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www.weatherford.com

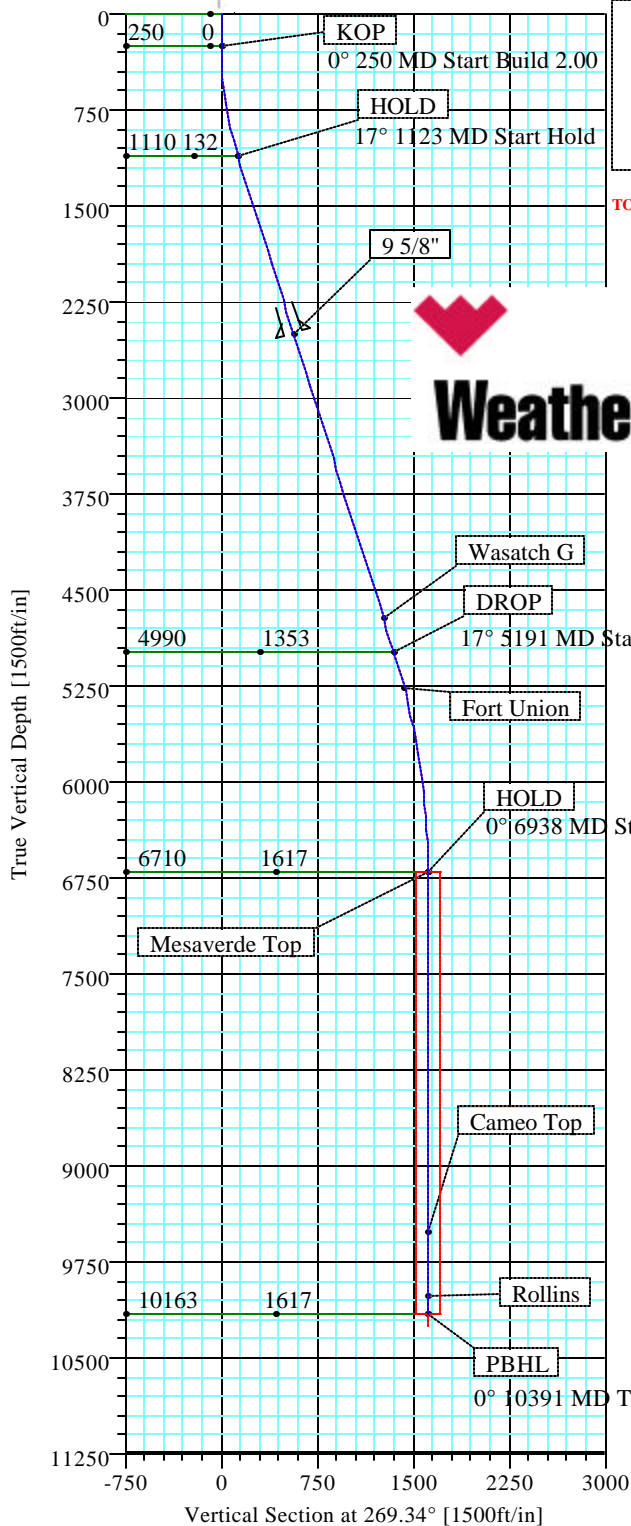


**Marathon
Oil Corporation**

MARATHON OIL CORPORATION
596-34D-16
856' FSL, 360' FEL
SEC 34-T5S-R96W
GARFIELD COUNTY, CO
RIG: NABORS M-37



KB ELEVATION: 8134'
 GR ELEVATION: 8110'



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	269.34	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	269.34	250.00	0.00	0.00	0.00	0.00	0.00	
3	1123.32	17.47	269.34	1109.85	-1.53	-132.08	2.00	269.34	132.09	
4	5191.32	17.47	269.34	4990.29	-15.69	-1352.99	0.00	0.00	1353.08	
5	6937.95	0.00	269.34	6710.00	-18.75	-1617.14	1.00	180.00	1617.25	PBHL 16
6	10390.95	0.00	269.34	10163.00	-18.75	-1617.14	0.00	269.34	1617.25	PBHL 16

WELL DETAILS

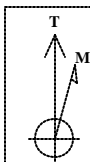
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
596-34D-16	-45.10	-39.58	1642202.14	2253784.45	39°34'00.382N	108°08'50.377W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL 16	10163.00	-18.75	-1617.14	1642230.51	2252167.45	Rectangle (100x200)

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	4718.00	4905.86	Wasatch G
2	5268.00	5480.28	Fort Union
3	6710.00	6937.95	Mesaverde Top
4	9514.00	9741.95	Cameo Top
5	10013.00	10240.95	Rollins



Azimuths to True North
 Magnetic North: 10.89°
 Magnetic Field
 Strength: 52643nT
 Dip Angle: 65.87°
 Date: 2/29/2008
 Model: bggm2007

TOTAL CORRECTION TO TRUE NORTH 10.89°

FIELD DETAILS

GARFIELD COUNTY, CO

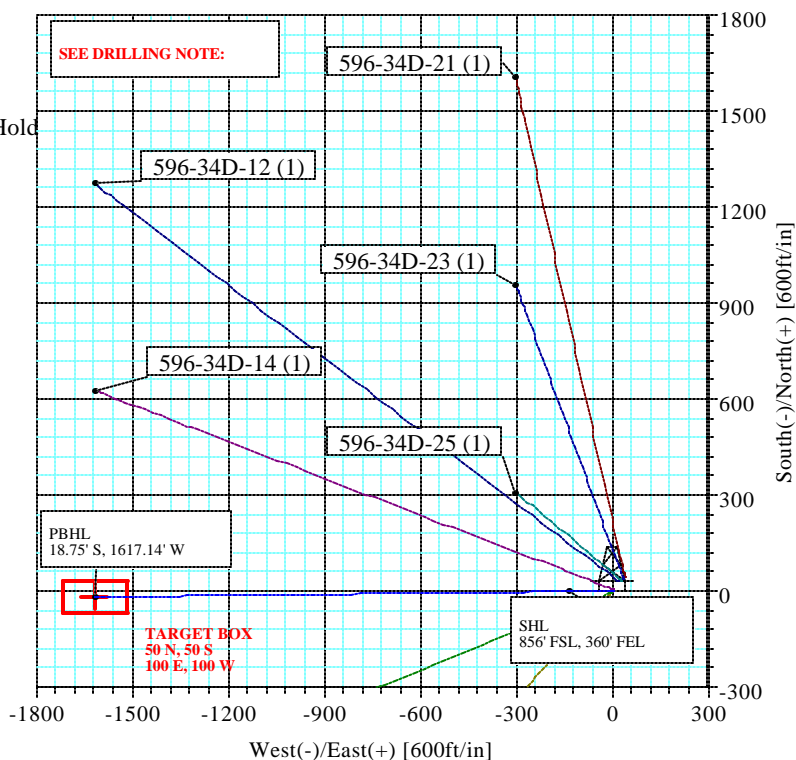
Geodetic System: US State Plane Coordinate System 1983
 Ellipsoid: GRS 1980
 Zone: Colorado, Central Zone
 Magnetic Model: bggm2007

System Datum: Mean Sea Level
 Local North: True North

CASING DETAILS

No.	TVD	MD	Name	Size
1	2500.00	2580.66	9 5/8"	9.625

-DRILLING NOTE-
TO ACCOUNT FOR THE 240° DRIFT IN AZIMUTH, AIM
FOR THE NE SIDE OF THE PBHL, AND
BE IN THE TARGET WINDOW BY THE MESAVERDE TOP AND STAY
WITHIN THE WINDOW TO TD. DO NOT GO OUTSIDE THE WINDOW



Plan: Plan #1 (596-34D-16/1)

Created By: Tracy R. Williams

Date: 2/29/2008

Company: MARATHON OIL COMPANY Field: GARFIELD COUNTY, CO Site: MARATHON 596-34D PAD Well: 596-34D-16 Wellpath: 1	Date: 2/29/2008 Time: 13:16:32 Page: 1 Co-ordinate(NE) Reference: Well: 596-34D-16, True North Vertical (TVD) Reference: SITE 8134.0 Section (VS) Reference: Well (0.00N,0.00E,269.34Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Plan: Plan #1 Principal: Yes	Date Composed: 2/12/2008 Version: 1 Tied-to: From Surface
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Field: GARFIELD COUNTY, CO

Map System: S State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: Colorado, Central Zone
Coordinate System: Well Centre
Geomagnetic Model: bggm2007

Site: MARATHON 596-34D PAD

Site Position:	Northing: 1642246.07 ft	Latitude: 39 34 0.828 N	
From: Map	Easting: 2253825.33 ft	Longitude: 108 8 49.871 W	
Position Uncertainty: 0.00 ft		North Reference: True	
Ground Level: 8110.00 ft		Grid Convergence: -1.67 deg	

Well: 596-34D-16

Slot Name:

Well Position: +N/-S -45.10 ft	Northing: 1642202.14 ft	Latitude: 39 34 0.382 N	
+E/-W -39.58 ft	Easting: 2253784.45 ft	Longitude: 108 8 50.377 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1

Current Datum: SITE
Magnetic Data: 2/29/2008
Field Strength: 52643 nT
Vertical Section: Depth From (TVD)
Height 8134.00 ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 10.89 deg
Mag Dip Angle: 65.87 deg
+E/-W **Direction**
 deg

10163.00

0.00

0.00

269.34

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	269.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	269.34	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1123.32	17.47	269.34	1109.85	-1.53	-132.08	2.00	2.00	0.00	269.34	
5191.32	17.47	269.34	4990.29	-15.69	-1352.99	0.00	0.00	0.00	0.00	
6937.95	0.00	269.34	6710.00	-18.75	-1617.14	1.00	-1.00	0.00	180.00	
10390.95	0.00	269.34	10163.00	-18.75	-1617.14	0.00	0.00	0.00	269.34	PBHL 16

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
0.00	0.00	269.34	0.00	0.00	0.00	0.00	0.00	1642202.14	2253784.45	
100.00	0.00	269.34	100.00	0.00	0.00	0.00	0.00	1642202.14	2253784.45	
200.00	0.00	269.34	200.00	0.00	0.00	0.00	0.00	1642202.14	2253784.45	
250.00	0.00	269.34	250.00	0.00	0.00	0.00	0.00	1642202.14	2253784.45	KOP
300.00	1.00	269.34	300.00	-0.01	-0.44	0.44	2.00	1642202.15	2253784.01	
400.00	3.00	269.34	399.93	-0.05	-3.93	3.93	2.00	1642202.21	2253780.52	
500.00	5.00	269.34	499.68	-0.13	-10.90	10.90	2.00	1642202.33	2253773.55	
600.00	7.00	269.34	599.13	-0.25	-21.35	21.35	2.00	1642202.51	2253763.10	
700.00	9.00	269.34	698.15	-0.41	-35.27	35.27	2.00	1642202.76	2253749.19	
800.00	11.00	269.34	796.63	-0.61	-52.63	52.63	2.00	1642203.06	2253731.82	
900.00	13.00	269.34	894.44	-0.85	-73.42	73.42	2.00	1642203.43	2253711.04	
1000.00	15.00	269.34	991.46	-1.13	-97.61	97.62	2.00	1642203.85	2253686.85	
1100.00	17.00	269.34	1087.58	-1.45	-125.17	125.18	2.00	1642204.34	2253659.29	
1123.32	17.47	269.34	1109.85	-1.53	-132.08	132.09	2.00	1642204.46	2253652.38	HOLD
1200.00	17.47	269.34	1183.00	-1.80	-155.09	155.10	0.00	1642204.86	2253629.37	

Company: MARATHON OIL COMPANY Field: GARFIELD COUNTY, CO Site: MARATHON 596-34D PAD Well: 596-34D-16 Wellpath: 1	Date: 2/29/2008 Time: 13:16:32 Page: 2 Co-ordinate(NE) Reference: Well: 596-34D-16, True North Vertical (TVD) Reference: SITE 8134.0 Section (VS) Reference: Well (0.00N,0.00E,269.34Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
1300.00	17.47	269.34	1278.39	-2.15	-185.10	185.12	0.00	1642205.39	2253599.36	
1400.00	17.47	269.34	1373.78	-2.49	-215.12	215.13	0.00	1642205.91	2253569.35	
1500.00	17.47	269.34	1469.17	-2.84	-245.13	245.15	0.00	1642206.44	2253539.34	
1600.00	17.47	269.34	1564.56	-3.19	-275.14	275.16	0.00	1642206.97	2253509.33	
1700.00	17.47	269.34	1659.95	-3.54	-305.15	305.17	0.00	1642207.49	2253479.32	
1800.00	17.47	269.34	1755.34	-3.89	-335.17	335.19	0.00	1642208.02	2253449.31	
1900.00	17.47	269.34	1850.73	-4.23	-365.18	365.20	0.00	1642208.55	2253419.30	
2000.00	17.47	269.34	1946.12	-4.58	-395.19	395.22	0.00	1642209.07	2253389.29	
2100.00	17.47	269.34	2041.50	-4.93	-425.20	425.23	0.00	1642209.60	2253359.28	
2200.00	17.47	269.34	2136.89	-5.28	-455.22	455.25	0.00	1642210.13	2253329.27	
2300.00	17.47	269.34	2232.28	-5.63	-485.23	485.26	0.00	1642210.65	2253299.26	
2400.00	17.47	269.34	2327.67	-5.98	-515.24	515.28	0.00	1642211.18	2253269.25	
2500.00	17.47	269.34	2423.06	-6.32	-545.25	545.29	0.00	1642211.71	2253239.24	
2580.66	17.47	269.34	2500.00	-6.60	-569.46	569.50	0.00	1642212.13	2253215.04	9 5/8"
2600.00	17.47	269.34	2518.45	-6.67	-575.27	575.31	0.00	1642212.23	2253209.23	
2700.00	17.47	269.34	2613.84	-7.02	-605.28	605.32	0.00	1642212.76	2253179.22	
2800.00	17.47	269.34	2709.23	-7.37	-635.29	635.33	0.00	1642213.29	2253149.21	
2900.00	17.47	269.34	2804.62	-7.72	-665.30	665.35	0.00	1642213.81	2253119.20	
3000.00	17.47	269.34	2900.01	-8.06	-695.32	695.36	0.00	1642214.34	2253089.19	
3100.00	17.47	269.34	2995.40	-8.41	-725.33	725.38	0.00	1642214.87	2253059.18	
3200.00	17.47	269.34	3090.79	-8.76	-755.34	755.39	0.00	1642215.39	2253029.17	
3300.00	17.47	269.34	3186.18	-9.11	-785.35	785.41	0.00	1642215.92	2252999.16	
3400.00	17.47	269.34	3281.57	-9.46	-815.37	815.42	0.00	1642216.45	2252969.15	
3500.00	17.47	269.34	3376.96	-9.80	-845.38	845.44	0.00	1642216.97	2252939.14	
3600.00	17.47	269.34	3472.35	-10.15	-875.39	875.45	0.00	1642217.50	2252909.13	
3700.00	17.47	269.34	3567.73	-10.50	-905.40	905.47	0.00	1642218.03	2252879.12	
3800.00	17.47	269.34	3663.12	-10.85	-935.42	935.48	0.00	1642218.55	2252849.11	
3900.00	17.47	269.34	3758.51	-11.20	-965.43	965.49	0.00	1642219.08	2252819.10	
4000.00	17.47	269.34	3853.90	-11.54	-995.44	995.51	0.00	1642219.60	2252789.09	
4100.00	17.47	269.34	3949.29	-11.89	-1025.45	1025.52	0.00	1642220.13	2252759.08	
4200.00	17.47	269.34	4044.68	-12.24	-1055.47	1055.54	0.00	1642220.66	2252729.07	
4300.00	17.47	269.34	4140.07	-12.59	-1085.48	1085.55	0.00	1642221.18	2252699.06	
4400.00	17.47	269.34	4235.46	-12.94	-1115.49	1115.57	0.00	1642221.71	2252669.05	
4500.00	17.47	269.34	4330.85	-13.28	-1145.50	1145.58	0.00	1642222.24	2252639.04	
4600.00	17.47	269.34	4426.24	-13.63	-1175.52	1175.60	0.00	1642222.76	2252609.03	
4700.00	17.47	269.34	4521.63	-13.98	-1205.53	1205.61	0.00	1642223.29	2252579.02	
4800.00	17.47	269.34	4617.02	-14.33	-1235.54	1235.63	0.00	1642223.82	2252549.01	
4900.00	17.47	269.34	4712.41	-14.68	-1265.55	1265.64	0.00	1642224.34	2252519.00	
4905.86	17.47	269.34	4718.00	-14.70	-1267.31	1267.40	0.00	1642224.37	2252517.25	Wasatch G
5000.00	17.47	269.34	4807.80	-15.02	-1295.57	1295.65	0.00	1642224.87	2252488.99	
5100.00	17.47	269.34	4903.19	-15.37	-1325.58	1325.67	0.00	1642225.40	2252458.99	
5191.32	17.47	269.34	4990.29	-15.69	-1352.99	1353.08	0.00	1642225.88	2252431.58	DROP
5200.00	17.38	269.34	4998.58	-15.72	-1355.59	1355.68	1.00	1642225.92	2252428.98	
5300.00	16.38	269.34	5094.27	-16.06	-1384.62	1384.71	1.00	1642226.43	2252399.95	
5400.00	15.38	269.34	5190.45	-16.37	-1411.98	1412.07	1.00	1642226.91	2252372.59	
5480.28	14.58	269.34	5268.00	-16.61	-1432.73	1432.82	1.00	1642227.28	2252351.85	Fort Union
5500.00	14.38	269.34	5287.10	-16.67	-1437.66	1437.75	1.00	1642227.36	2252346.92	
5600.00	13.38	269.34	5384.17	-16.95	-1461.64	1461.74	1.00	1642227.78	2252322.93	
5700.00	12.38	269.34	5481.66	-17.21	-1483.93	1484.03	1.00	1642228.18	2252300.65	
5800.00	11.38	269.34	5579.51	-17.45	-1504.51	1504.62	1.00	1642228.54	2252280.07	
5900.00	10.38	269.34	5677.72	-17.67	-1523.39	1523.49	1.00	1642228.87	2252261.19	
6000.00	9.38	269.34	5776.23	-17.87	-1540.54	1540.65	1.00	1642229.17	2252244.04	
6100.00	8.38	269.34	5875.03	-18.04	-1555.98	1556.08	1.00	1642229.44	2252228.61	

Company: MARATHON OIL COMPANY Field: GARFIELD COUNTY, CO Site: MARATHON 596-34D PAD Well: 596-34D-16 Wellpath: 1	Date: 2/29/2008 Time: 13:16:32 Page: 3 Co-ordinate(NE) Reference: Well: 596-34D-16, True North Vertical (TVD) Reference: SITE 8134.0 Section (VS) Reference: Well (0.00N,0.00E,269.34Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6200.00	7.38	269.34	5974.09	-18.20	-1569.69	1569.79	1.00	1642229.68	2252214.90	
6300.00	6.38	269.34	6073.37	-18.34	-1581.66	1581.77	1.00	1642229.89	2252202.92	
6400.00	5.38	269.34	6172.84	-18.46	-1591.91	1592.01	1.00	1642230.07	2252192.68	
6500.00	4.38	269.34	6272.47	-18.56	-1600.41	1600.52	1.00	1642230.22	2252184.18	
6600.00	3.38	269.34	6372.24	-18.64	-1607.18	1607.28	1.00	1642230.34	2252177.41	
6700.00	2.38	269.34	6472.12	-18.70	-1612.20	1612.31	1.00	1642230.43	2252172.39	
6800.00	1.38	269.34	6572.06	-18.73	-1615.48	1615.59	1.00	1642230.48	2252169.11	
6900.00	0.38	269.34	6672.05	-18.75	-1617.01	1617.12	1.00	1642230.51	2252167.58	
6937.95	0.00	269.34	6710.00	-18.75	-1617.14	1617.25	1.00	1642230.51	2252167.45	Mesaverde Top
7000.00	0.00	269.34	6772.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7100.00	0.00	269.34	6872.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7200.00	0.00	269.34	6972.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7300.00	0.00	269.34	7072.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7400.00	0.00	269.34	7172.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7500.00	0.00	269.34	7272.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7600.00	0.00	269.34	7372.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7700.00	0.00	269.34	7472.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7800.00	0.00	269.34	7572.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
7900.00	0.00	269.34	7672.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8000.00	0.00	269.34	7772.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8100.00	0.00	269.34	7872.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8200.00	0.00	269.34	7972.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8300.00	0.00	269.34	8072.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8400.00	0.00	269.34	8172.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8500.00	0.00	269.34	8272.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8600.00	0.00	269.34	8372.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8700.00	0.00	269.34	8472.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8800.00	0.00	269.34	8572.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
8900.00	0.00	269.34	8672.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9000.00	0.00	269.34	8772.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9100.00	0.00	269.34	8872.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9200.00	0.00	269.34	8972.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9300.00	0.00	269.34	9072.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9400.00	0.00	269.34	9172.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9500.00	0.00	269.34	9272.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9600.00	0.00	269.34	9372.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9700.00	0.00	269.34	9472.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9741.95	0.00	269.34	9514.00	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	Cameo Top
9800.00	0.00	269.34	9572.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
9900.00	0.00	269.34	9672.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
10000.00	0.00	269.34	9772.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
10100.00	0.00	269.34	9872.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
10200.00	0.00	269.34	9972.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
10240.95	0.00	269.34	10013.00	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	Rollins
10300.00	0.00	269.34	10072.05	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	
10390.95	0.00	269.34	10163.00	-18.75	-1617.14	1617.25	0.00	1642230.51	2252167.45	PBHL 16

Targets

Name	Description Dip.	TVD Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
PBHL 16 -Rectangle (100x200)			10163.00	-18.75	-1617.14	1642230.51	2252167.45	39	34	0.196 N	108	9	11.027 W

Company: MARATHON OIL COMPANY Field: GARFIELD COUNTY, CO Site: MARATHON 596-34D PAD Well: 596-34D-16 Wellpath: 1	Date: 2/29/2008 Time: 13:16:32 Page: 4 Co-ordinate(NE) Reference: Well: 596-34D-16, True North Vertical (TVD) Reference: SITE 8134.0 Section (VS) Reference: Well (0.00N,0.00E,269.34Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec
-Plan hit target													

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2580.66	2500.00	9.625	12.250	9 5/8"

Annotation

MD ft	TVD ft	
250.00	250.00	KOP
1123.32	1109.86	HOLD
5191.32	4990.29	DROP
6937.95	6710.00	HOLD
10390.95	10163.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
4905.86	4718.00	Wasatch G		0.00	0.00
5480.28	5268.00	Fort Union		0.00	0.00
6937.95	6710.00	Mesaverde Top		0.00	0.00
9741.95	9514.00	Cameo Top		0.00	0.00
10240.95	10013.00	Rollins		0.00	0.00

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 1
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

NO GLOBAL SCAN: Using user defined selection & scan criteria	Reference: Plan: Plan #1
Interpolation Method: MD	Error Model: ISCWSA Ellipse
Interval: 100.00 ft	Scan Method: Closest Approach 3D
Depth Range: 0.00 to 10390.95 ft	Error Surface: Ellipse
Maximum Radius: 10000.00 ft	

Plan: Plan #1	Date Composed: 2/12/2008	
	Version: 1	
Principal: Yes	Tied-to: From Surface	

Summary

<----- Offset Wellpath ----->			Reference	Offset	Ctr-Ctr	Edge	Separation	Warning
Site	Well	Wellpath	MD ft	MD ft	Distance ft	Distance ft	Factor	
MARATHON 596-34D-14	596-34D-14	1 V0 Plan: Plan #1 V1	500.00	500.25	12.46	10.47	6.27	
MARATHON 596-34D-18	596-34D-18	1 V0 Plan: Plan #1 V1	500.00	498.95	14.27	12.27	7.15	
MARATHON 596-34D-27	596-34D-27	1 V0 Plan: Plan #1 V1	400.00	398.36	21.23	19.71	13.90	

Site: MARATHON 596-34D PAD
Well: 596-34D-14
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	41.28	5.64	4.95	7.50			No Data
100.00	100.00	100.00	100.00	0.09	0.09	41.28	5.64	4.95	7.50	7.33	43.91	
200.00	200.00	200.00	200.00	0.31	0.31	41.28	5.64	4.95	7.50	6.88	12.09	
300.00	300.00	300.00	300.00	0.54	0.53	134.32	5.64	4.95	7.80	6.73	7.29	
400.00	399.93	400.11	400.09	0.76	0.76	139.60	6.26	3.31	9.60	8.08	6.30	
500.00	499.68	500.25	500.08	1.01	0.99	139.08	8.14	-1.59	12.46	10.47	6.27	
600.00	599.13	600.39	599.84	1.28	1.24	135.90	11.26	-9.75	16.36	13.88	6.60	
700.00	698.15	700.50	699.20	1.58	1.52	131.98	15.63	-21.15	21.39	18.36	7.06	
800.00	796.63	800.57	798.02	1.94	1.84	128.22	21.24	-35.79	27.62	23.96	7.53	
900.00	894.44	900.56	896.17	2.34	2.21	124.89	28.07	-53.62	35.09	30.68	7.96	
1000.00	991.46	1000.45	993.49	2.81	2.64	122.05	36.11	-74.62	43.81	38.55	8.32	
1100.00	1087.58	1100.23	1089.86	3.34	3.12	119.64	45.35	-98.75	53.79	47.54	8.61	
1200.00	1183.00	1199.88	1185.15	3.92	3.67	116.93	55.77	-125.95	64.56	57.23	8.80	
1300.00	1278.39	1299.29	1279.23	4.52	4.28	112.65	67.26	-155.95	75.29	66.71	8.78	
1400.00	1373.78	1398.54	1372.94	5.12	4.92	109.01	78.96	-186.50	86.34	76.49	8.77	
1500.00	1469.17	1497.80	1466.65	5.73	5.57	106.20	90.66	-217.05	97.66	86.53	8.78	
1600.00	1564.56	1597.06	1560.36	6.34	6.22	103.97	102.36	-247.60	109.17	96.76	8.80	
1700.00	1659.95	1696.31	1654.07	6.96	6.88	102.17	114.06	-278.14	120.80	107.12	8.83	
1800.00	1755.34	1795.57	1747.78	7.58	7.54	100.69	125.76	-308.69	132.54	117.58	8.86	
1900.00	1850.73	1894.82	1841.49	8.20	8.20	99.45	137.46	-339.24	144.35	128.11	8.89	
2000.00	1946.12	1994.08	1935.20	8.82	8.87	98.40	149.16	-369.79	156.21	138.71	8.92	
2100.00	2041.50	2093.34	2028.91	9.44	9.54	97.50	160.86	-400.34	168.12	149.34	8.95	
2200.00	2136.89	2192.59	2122.62	10.07	10.21	96.71	172.56	-430.89	180.06	160.02	8.98	
2300.00	2232.28	2291.85	2216.33	10.69	10.88	96.02	184.26	-461.43	192.04	170.72	9.01	
2400.00	2327.67	2391.10	2310.04	11.32	11.55	95.42	195.96	-491.98	204.03	181.45	9.03	
2500.00	2423.06	2490.36	2403.75	11.94	12.22	94.88	207.66	-522.53	216.05	192.20	9.06	
2600.00	2518.45	2589.62	2497.46	12.57	12.90	94.40	219.36	-553.08	228.08	202.97	9.08	
2700.00	2613.84	2688.87	2591.18	13.20	13.57	93.97	231.06	-583.63	240.13	213.75	9.10	
2800.00	2709.23	2788.13	2684.89	13.82	14.25	93.57	242.76	-614.17	252.19	224.54	9.12	
2900.00	2804.62	2887.38	2778.60	14.45	14.92	93.22	254.46	-644.72	264.27	235.34	9.14	
3000.00	2900.01	2986.64	2872.31	15.08	15.60	92.89	266.16	-675.27	276.35	246.16	9.15	
3100.00	2995.40	3085.90	2966.02	15.70	16.27	92.59	277.86	-705.82	288.44	256.98	9.17	
3200.00	3090.79	3185.15	3059.73	16.33	16.95	92.32	289.56	-736.37	300.53	267.81	9.18	
3300.00	3186.18	3284.41	3153.44	16.96	17.63	92.07	301.26	-766.91	312.63	278.64	9.20	
3400.00	3281.57	3383.66	3247.15	17.59	18.30	91.83	312.96	-797.46	324.74	289.49	9.21	
3500.00	3376.96	3482.92	3340.86	18.22	18.98	91.62	324.66	-828.01	336.85	300.33	9.22	

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 2
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

Site: MARATHON 596-34D PAD

Well: 596-34D-14

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3600.00	3472.35	3582.18	3434.57	18.85	19.66	91.41	336.36	-858.56	348.97	311.18	9.24	
3700.00	3567.73	3681.43	3528.28	19.47	20.33	91.23	348.06	-889.11	361.09	322.04	9.25	
3800.00	3663.12	3780.69	3621.99	20.10	21.01	91.05	359.76	-919.66	373.21	332.90	9.26	
3900.00	3758.51	3879.94	3715.70	20.73	21.69	90.88	371.46	-950.20	385.34	343.76	9.27	
4000.00	3853.90	3979.20	3809.41	21.36	22.36	90.73	383.16	-980.75	397.47	354.62	9.28	
4100.00	3949.29	4078.45	3903.12	21.99	23.04	90.58	394.86	-1011.30	409.61	365.49	9.28	
4200.00	4044.68	4177.71	3996.83	22.62	23.72	90.45	406.56	-1041.85	421.74	376.36	9.29	
4300.00	4140.07	4276.97	4090.54	23.25	24.40	90.32	418.26	-1072.40	433.88	387.23	9.30	
4400.00	4235.46	4376.22	4184.25	23.88	25.07	90.19	429.96	-1102.94	446.02	398.11	9.31	
4500.00	4330.85	4475.48	4277.97	24.51	25.75	90.08	441.66	-1133.49	458.16	408.98	9.32	
4600.00	4426.24	4574.73	4371.68	25.13	26.43	89.97	453.36	-1164.04	470.31	419.86	9.32	
4700.00	4521.63	4673.99	4465.39	25.76	27.11	89.86	465.06	-1194.59	482.45	430.74	9.33	
4800.00	4617.02	4773.25	4559.10	26.39	27.79	89.76	476.76	-1225.14	494.60	441.62	9.34	
4900.00	4712.41	4872.50	4652.81	27.02	28.46	89.67	488.46	-1255.68	506.75	452.51	9.34	
5000.00	4807.80	4971.76	4746.52	27.65	29.14	89.58	500.16	-1286.23	518.90	463.39	9.35	
5100.00	4903.19	5071.01	4840.23	28.28	29.82	89.49	511.86	-1316.78	531.05	474.28	9.35	
5200.00	4998.58	5173.57	4937.32	28.90	30.39	89.50	523.67	-1347.62	542.92	484.99	9.37	
5300.00	5094.27	5276.48	5035.32	29.38	30.91	89.68	534.90	-1376.94	554.15	495.25	9.41	
5400.00	5190.45	5379.52	5134.00	29.83	31.40	89.84	545.51	-1404.64	564.76	504.93	9.44	
5500.00	5287.10	5482.69	5233.32	30.25	31.88	89.98	555.49	-1430.71	574.73	514.02	9.47	
5600.00	5384.17	5585.98	5333.24	30.66	32.32	90.11	564.85	-1455.13	584.06	522.52	9.49	
5700.00	5481.66	5689.39	5433.73	31.04	32.75	90.22	573.56	-1477.89	592.74	530.43	9.51	
5800.00	5579.51	5792.90	5534.76	31.40	33.14	90.33	581.64	-1498.98	600.78	537.73	9.53	
5900.00	5677.72	5896.52	5636.27	31.73	33.51	90.41	589.07	-1518.38	608.17	544.43	9.54	
6000.00	5776.23	6000.23	5738.23	32.04	33.85	90.49	595.84	-1536.07	614.90	550.53	9.55	
6100.00	5875.03	6104.03	5840.60	32.32	34.17	90.55	601.97	-1552.05	620.98	556.02	9.56	
6200.00	5974.09	6207.90	5943.35	32.59	34.46	90.60	607.43	-1566.31	626.39	560.90	9.56	
6300.00	6073.37	6311.84	6046.42	32.82	34.72	90.64	612.22	-1578.83	631.14	565.17	9.57	
6400.00	6172.84	6415.85	6149.79	33.04	34.95	90.67	616.35	-1589.61	635.23	568.83	9.57	
6500.00	6272.47	6519.91	6253.39	33.23	35.16	90.69	619.81	-1598.64	638.66	571.86	9.56	
6600.00	6372.24	6624.01	6357.21	33.39	35.35	90.70	622.59	-1605.91	641.41	574.28	9.55	
6700.00	6472.12	6728.16	6461.18	33.54	35.51	90.69	624.71	-1611.43	643.50	576.08	9.54	
6800.00	6572.06	6832.33	6565.27	33.66	35.64	90.68	626.14	-1615.17	644.91	577.25	9.53	
6900.00	6672.05	6936.52	6669.44	33.76	35.75	90.65	626.90	-1617.16	645.66	577.80	9.52	
7000.00	6772.05	7039.13	6772.05	33.84	35.83	-0.03	627.03	-1617.50	645.78	609.28	17.69	
7100.00	6872.05	7139.13	6872.05	33.94	35.92	-0.03	627.03	-1617.50	645.78	608.95	17.53	
7200.00	6972.05	7239.13	6972.05	34.03	36.01	-0.03	627.03	-1617.50	645.78	608.62	17.38	
7300.00	7072.05	7339.13	7072.05	34.13	36.10	-0.03	627.03	-1617.50	645.78	608.28	17.22	
7400.00	7172.05	7439.13	7172.05	34.23	36.19	-0.03	627.03	-1617.50	645.78	607.94	17.06	
7500.00	7272.05	7539.13	7272.05	34.33	36.28	-0.03	627.03	-1617.50	645.78	607.60	16.91	
7600.00	7372.05	7639.13	7372.05	34.43	36.37	-0.03	627.03	-1617.50	645.78	607.25	16.76	
7700.00	7472.05	7739.13	7472.05	34.53	36.47	-0.03	627.03	-1617.50	645.78	606.90	16.61	
7800.00	7572.05	7839.13	7572.05	34.63	36.56	-0.03	627.03	-1617.50	645.78	606.55	16.46	
7900.00	7672.05	7939.13	7672.05	34.74	36.66	-0.03	627.03	-1617.50	645.78	606.20	16.32	
8000.00	7772.05	8039.13	7772.05	34.84	36.76	-0.03	627.03	-1617.50	645.78	605.85	16.17	
8100.00	7872.05	8139.13	7872.05	34.95	36.86	-0.03	627.03	-1617.50	645.78	605.50	16.03	
8200.00	7972.05	8239.13	7972.05	35.06	36.95	-0.03	627.03	-1617.50	645.78	605.14	15.89	
8300.00	8072.05	8339.13	8072.05	35.17	37.06	-0.03	627.03	-1617.50	645.78	604.78	15.75	
8400.00	8172.05	8439.13	8172.05	35.28	37.16	-0.03	627.03	-1617.50	645.78	604.42	15.61	
8500.00	8272.05	8539.13	8272.05	35.39	37.26	-0.03	627.03	-1617.50	645.78	604.06	15.48	
8600.00	8372.05	8639.13	8372.05	35.50	37.37	-0.03	627.03	-1617.50	645.78	603.69	15.34	

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 3
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

Site: MARATHON 596-34D PAD

Well: 596-34D-14

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8700.00	8472.05	8739.13	8472.05	35.61	37.47	-0.03	627.03	-1617.50	645.78	603.33	15.21	
8800.00	8572.05	8839.13	8572.05	35.73	37.58	-0.03	627.03	-1617.50	645.78	602.96	15.08	
8900.00	8672.05	8939.13	8672.05	35.84	37.68	-0.03	627.03	-1617.50	645.78	602.59	14.95	
9000.00	8772.05	9039.13	8772.05	35.96	37.79	-0.03	627.03	-1617.50	645.78	602.22	14.82	
9100.00	8872.05	9139.13	8872.05	36.08	37.90	-0.03	627.03	-1617.50	645.78	601.85	14.70	
9200.00	8972.05	9239.13	8972.05	36.20	38.01	-0.03	627.03	-1617.50	645.78	601.48	14.57	
9300.00	9072.05	9339.13	9072.05	36.31	38.12	-0.03	627.03	-1617.50	645.78	601.10	14.45	
9400.00	9172.05	9439.13	9172.05	36.44	38.24	-0.03	627.03	-1617.50	645.78	600.73	14.33	
9500.00	9272.05	9539.13	9272.05	36.56	38.35	-0.03	627.03	-1617.50	645.78	600.35	14.21	
9600.00	9372.05	9639.13	9372.05	36.68	38.46	-0.03	627.03	-1617.50	645.78	599.97	14.10	
9700.00	9472.05	9739.13	9472.05	36.80	38.58	-0.03	627.03	-1617.50	645.78	599.59	13.98	
9800.00	9572.05	9839.13	9572.05	36.93	38.70	-0.03	627.03	-1617.50	645.78	599.21	13.87	
9900.00	9672.05	9939.13	9672.05	37.05	38.81	-0.03	627.03	-1617.50	645.78	598.83	13.75	
10000.00	9772.05	10039.13	9772.05	37.18	38.93	-0.03	627.03	-1617.50	645.78	598.44	13.64	
10100.00	9872.05	10139.13	9872.05	37.30	39.05	-0.03	627.03	-1617.50	645.78	598.06	13.53	
10200.00	9972.05	10239.13	9972.05	37.43	39.17	-0.03	627.03	-1617.50	645.78	597.67	13.42	
10300.00	10072.05	10339.13	10072.05	37.56	39.29	-0.03	627.03	-1617.50	645.78	597.28	13.32	
10390.95	10163.00	10430.08	10163.00	37.68	39.40	-0.03	627.03	-1617.50	645.78	596.93	13.22	

Site: MARATHON 596-34D PAD

Well: 596-34D-18

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	221.28	-5.64	-4.95	7.50			No Data
100.00	100.00	100.00	100.00	0.09	0.09	221.28	-5.64	-4.95	7.50	7.33	43.91	
200.00	200.00	200.00	200.00	0.31	0.31	221.28	-5.64	-4.95	7.50	6.88	12.09	
300.00	300.00	299.74	299.72	0.54	0.54	314.90	-6.29	-6.55	8.78	7.71	8.19	
400.00	399.93	399.40	399.23	0.76	0.77	312.94	-8.26	-11.37	11.11	9.58	7.28	
500.00	499.68	498.95	498.41	1.01	1.03	307.52	-11.53	-19.37	14.27	12.27	7.15	
600.00	599.13	598.38	597.10	1.28	1.32	301.25	-16.10	-30.55	18.44	15.93	7.35	
700.00	698.15	697.66	695.16	1.58	1.66	295.42	-21.95	-44.86	23.77	20.68	7.68	
800.00	796.63	796.77	792.46	1.94	2.04	290.47	-29.07	-62.28	30.34	26.56	8.03	
900.00	894.44	895.68	888.87	2.34	2.48	286.43	-37.44	-82.75	38.17	33.59	8.33	
1000.00	991.46	994.38	984.24	2.81	2.98	283.17	-47.05	-106.24	47.28	41.77	8.58	
1100.00	1087.58	1092.85	1078.46	3.34	3.54	280.55	-57.86	-132.70	57.64	51.07	8.78	
1200.00	1183.00	1191.51	1171.92	3.92	4.15	278.89	-69.82	-161.96	69.26	61.54	8.97	
1300.00	1278.39	1290.78	1265.76	4.52	4.80	277.99	-82.09	-191.95	81.22	72.31	9.11	
1400.00	1373.78	1390.06	1359.60	5.12	5.45	277.32	-94.35	-221.94	93.19	83.07	9.21	
1500.00	1469.17	1489.33	1453.43	5.73	6.10	276.80	-106.61	-251.94	105.17	93.84	9.28	
1600.00	1564.56	1588.61	1547.27	6.34	6.76	276.39	-118.87	-281.93	117.16	104.60	9.33	
1700.00	1659.95	1687.88	1641.11	6.96	7.43	276.05	-131.13	-311.92	129.15	115.36	9.36	
1800.00	1755.34	1787.16	1734.95	7.58	8.09	275.77	-143.39	-341.91	141.15	126.12	9.39	
1900.00	1850.73	1886.44	1828.79	8.20	8.76	275.54	-155.66	-371.91	153.15	136.88	9.41	
2000.00	1946.12	1985.71	1922.63	8.82	9.43	275.34	-167.92	-401.90	165.15	147.64	9.43	
2100.00	2041.50	2084.99	2016.47	9.44	10.10	275.16	-180.18	-431.89	177.15	158.40	9.44	
2200.00	2136.89	2184.26	2110.31	10.07	10.77	275.01	-192.44	-461.88	189.16	169.15	9.46	
2300.00	2232.28	2283.54	2204.15	10.69	11.44	274.88	-204.70	-491.88	201.16	179.91	9.46	
2400.00	2327.67	2382.81	2297.99	11.32	12.11	274.76	-216.96	-521.87	213.17	190.67	9.47	
2500.00	2423.06	2482.09	2391.82	11.94	12.78	274.66	-229.22	-551.86	225.18	201.42	9.48	
2600.00	2518.45	2581.37	2485.66	12.57	13.45	274.56	-241.49	-581.85	237.18	212.18	9.48	

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 4
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

Site: MARATHON 596-34D PAD
Well: 596-34D-18
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
2700.00	2613.84	2680.64	2579.50	13.20	14.13	274.47	-253.75	-611.85	249.19	222.93	9.49	
2800.00	2709.23	2779.92	2673.34	13.82	14.80	274.40	-266.01	-641.84	261.20	233.69	9.49	
2900.00	2804.62	2879.19	2767.18	14.45	15.47	274.33	-278.27	-671.83	273.21	244.44	9.50	
3000.00	2900.01	2978.47	2861.02	15.08	16.15	274.26	-290.53	-701.83	285.22	255.20	9.50	
3100.00	2995.40	3077.74	2954.86	15.70	16.82	274.20	-302.79	-731.82	297.23	265.95	9.50	
3200.00	3090.79	3177.02	3048.70	16.33	17.49	274.15	-315.05	-761.81	309.24	276.71	9.51	
3300.00	3186.18	3276.30	3142.54	16.96	18.17	274.09	-327.32	-791.80	321.25	287.46	9.51	
3400.00	3281.57	3375.57	3236.38	17.59	18.84	274.05	-339.58	-821.80	333.26	298.22	9.51	
3500.00	3376.96	3474.85	3330.22	18.22	19.52	274.00	-351.84	-851.79	345.27	308.97	9.51	
3600.00	3472.35	3574.12	3424.05	18.85	20.19	273.96	-364.10	-881.78	357.28	319.73	9.51	
3700.00	3567.73	3673.40	3517.89	19.47	20.87	273.92	-376.36	-911.77	369.30	330.48	9.51	
3800.00	3663.12	3772.67	3611.73	20.10	21.54	273.89	-388.62	-941.77	381.31	341.24	9.52	
3900.00	3758.51	3871.95	3705.57	20.73	22.22	273.85	-400.88	-971.76	393.32	351.99	9.52	
4000.00	3853.90	3971.23	3799.41	21.36	22.89	273.82	-413.15	-1001.75	405.33	362.75	9.52	
4100.00	3949.29	4070.50	3893.25	21.99	23.57	273.79	-425.41	-1031.74	417.34	373.50	9.52	
4200.00	4044.68	4169.78	3987.09	22.62	24.24	273.76	-437.67	-1061.74	429.36	384.26	9.52	
4300.00	4140.07	4269.05	4080.93	23.25	24.92	273.74	-449.93	-1091.73	441.37	395.01	9.52	
4400.00	4235.46	4368.33	4174.77	23.88	25.59	273.71	-462.19	-1121.72	453.38	405.77	9.52	
4500.00	4330.85	4467.60	4268.61	24.51	26.27	273.69	-474.45	-1151.72	465.39	416.52	9.52	
4600.00	4426.24	4566.88	4362.44	25.13	26.94	273.66	-486.72	-1181.71	477.40	427.27	9.52	
4700.00	4521.63	4666.16	4456.28	25.76	27.62	273.64	-498.98	-1211.70	489.42	438.03	9.52	
4800.00	4617.02	4765.43	4550.12	26.39	28.29	273.62	-511.24	-1241.69	501.43	448.78	9.52	
4900.00	4712.41	4864.71	4643.96	27.02	28.97	273.60	-523.50	-1271.69	513.44	459.54	9.52	
5000.00	4807.80	4963.98	4737.80	27.65	29.64	273.58	-535.76	-1301.68	525.46	470.29	9.53	
5100.00	4903.19	5063.96	4832.31	28.28	30.31	273.56	-548.10	-1331.86	537.46	481.04	9.53	
5200.00	4998.58	5167.27	4930.37	28.90	30.85	273.41	-560.41	-1361.96	548.98	491.40	9.53	
5300.00	5094.27	5270.71	5029.12	29.38	31.34	273.11	-572.06	-1390.46	559.83	501.28	9.56	
5400.00	5190.45	5374.27	5128.52	29.83	31.82	272.82	-583.04	-1417.33	570.07	510.57	9.58	
5500.00	5287.10	5477.94	5228.54	30.25	32.26	272.56	-593.36	-1442.56	579.67	519.29	9.60	
5600.00	5384.17	5581.72	5329.15	30.66	32.69	272.32	-603.00	-1466.14	588.64	527.42	9.61	
5700.00	5481.66	5685.59	5430.29	31.04	33.09	272.10	-611.95	-1488.04	596.97	534.95	9.63	
5800.00	5579.51	5789.56	5531.94	31.40	33.47	271.89	-620.22	-1508.27	604.66	541.90	9.63	
5900.00	5677.72	5893.62	5634.05	31.73	33.82	271.71	-627.79	-1526.79	611.69	548.25	9.64	
6000.00	5776.23	5997.75	5736.58	32.04	34.14	271.54	-634.67	-1543.61	618.08	553.99	9.64	
6100.00	5875.03	6101.95	5839.49	32.32	34.44	271.38	-640.84	-1558.71	623.81	559.13	9.64	
6200.00	5974.09	6206.21	5942.74	32.59	34.71	271.24	-646.31	-1572.08	628.89	563.67	9.64	
6300.00	6073.37	6310.52	6046.29	32.82	34.96	271.12	-651.06	-1583.72	633.30	567.59	9.64	
6400.00	6172.84	6414.87	6150.10	33.04	35.18	271.01	-655.11	-1593.61	637.06	570.91	9.63	
6500.00	6272.47	6519.27	6254.12	33.23	35.37	270.91	-658.44	-1601.76	640.14	573.60	9.62	
6600.00	6372.24	6623.69	6358.31	33.39	35.54	270.82	-661.05	-1608.15	642.56	575.68	9.61	
6700.00	6472.12	6728.12	6462.63	33.54	35.68	270.75	-662.94	-1612.78	644.32	577.15	9.59	
6800.00	6572.06	6832.57	6567.03	33.66	35.80	270.69	-664.12	-1615.65	645.40	577.99	9.57	
6900.00	6672.05	6937.03	6671.47	33.76	35.89	270.64	-664.57	-1616.76	645.82	578.21	9.55	
7000.00	6772.05	7037.60	6772.05	33.84	35.97	179.97	-664.58	-1616.77	645.82	609.29	17.68	
7100.00	6872.05	7137.60	6872.05	33.94	36.06	179.97	-664.58	-1616.77	645.82	608.95	17.52	
7200.00	6972.05	7237.60	6972.05	34.03	36.16	179.97	-664.58	-1616.77	645.82	608.62	17.36	
7300.00	7072.05	7337.60	7072.05	34.13	36.25	179.97	-664.58	-1616.77	645.82	608.28	17.20	
7400.00	7172.05	7437.60	7172.05	34.23	36.34	179.97	-664.58	-1616.77	645.82	607.94	17.05	
7500.00	7272.05	7537.60	7272.05	34.33	36.44	179.97	-664.58	-1616.77	645.82	607.60	16.89	
7600.00	7372.05	7637.60	7372.05	34.43	36.53	179.97	-664.58	-1616.77	645.82	607.25	16.74	
7700.00	7472.05	7737.60	7472.05	34.53	36.63	179.97	-664.58	-1616.77	645.82	606.90	16.59	

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 5
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

Site: MARATHON 596-34D PAD

Well: 596-34D-18

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
7800.00	7572.05	7837.60	7572.05	34.63	36.73	179.97	-664.58	-1616.77	645.82	606.56	16.45	
7900.00	7672.05	7937.60	7672.05	34.74	36.83	179.97	-664.58	-1616.77	645.82	606.20	16.30	
8000.00	7772.05	8037.60	7772.05	34.84	36.93	179.97	-664.58	-1616.77	645.82	605.85	16.16	
8100.00	7872.05	8137.60	7872.05	34.95	37.03	179.97	-664.58	-1616.77	645.82	605.50	16.01	
8200.00	7972.05	8237.60	7972.05	35.06	37.14	179.97	-664.58	-1616.77	645.82	605.14	15.87	
8300.00	8072.05	8337.60	8072.05	35.17	37.24	179.97	-664.58	-1616.77	645.82	604.78	15.73	
8400.00	8172.05	8437.60	8172.05	35.28	37.34	179.97	-664.58	-1616.77	645.82	604.42	15.60	
8500.00	8272.05	8537.60	8272.05	35.39	37.45	179.97	-664.58	-1616.77	645.82	604.06	15.46	
8600.00	8372.05	8637.60	8372.05	35.50	37.56	179.97	-664.58	-1616.77	645.82	603.69	15.33	
8700.00	8472.05	8737.60	8472.05	35.61	37.67	179.97	-664.58	-1616.77	645.82	603.33	15.20	
8800.00	8572.05	8837.60	8572.05	35.73	37.77	179.97	-664.58	-1616.77	645.82	602.96	15.07	
8900.00	8672.05	8937.60	8672.05	35.84	37.88	179.97	-664.58	-1616.77	645.82	602.59	14.94	
9000.00	8772.05	9037.60	8772.05	35.96	38.00	179.97	-664.58	-1616.77	645.82	602.22	14.81	
9100.00	8872.05	9137.60	8872.05	36.08	38.11	179.97	-664.58	-1616.77	645.82	601.85	14.69	
9200.00	8972.05	9237.60	8972.05	36.20	38.22	179.97	-664.58	-1616.77	645.82	601.48	14.56	
9300.00	9072.05	9337.60	9072.05	36.31	38.34	179.97	-664.58	-1616.77	645.82	601.10	14.44	
9400.00	9172.05	9437.60	9172.05	36.44	38.45	179.97	-664.58	-1616.77	645.82	600.72	14.32	
9500.00	9272.05	9537.60	9272.05	36.56	38.57	179.97	-664.58	-1616.77	645.82	600.35	14.20	
9600.00	9372.05	9637.60	9372.05	36.68	38.68	179.97	-664.58	-1616.77	645.82	599.97	14.08	
9700.00	9472.05	9737.60	9472.05	36.80	38.80	179.97	-664.58	-1616.77	645.82	599.59	13.97	
9800.00	9572.05	9837.60	9572.05	36.93	38.92	179.97	-664.58	-1616.77	645.82	599.21	13.85	
9900.00	9672.05	9937.60	9672.05	37.05	39.04	179.97	-664.58	-1616.77	645.82	598.83	13.74	
10000.00	9772.05	10037.60	9772.05	37.18	39.16	179.97	-664.58	-1616.77	645.82	598.44	13.63	
10100.00	9872.05	10137.60	9872.05	37.30	39.28	179.97	-664.58	-1616.77	645.82	598.06	13.52	
10200.00	9972.05	10237.60	9972.05	37.43	39.41	179.97	-664.58	-1616.77	645.82	597.67	13.41	
10300.00	10072.05	10337.60	10072.05	37.56	39.53	179.97	-664.58	-1616.77	645.82	597.28	13.31	
10390.95	10163.00	10395.55	10130.00	37.68	39.60	179.97	-664.58	-1616.77	646.67	597.84	13.24	

Site: MARATHON 596-34D PAD

Well: 596-34D-27

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	221.28	-11.27	-9.90	15.00			No Data
100.00	100.00	100.00	100.00	0.09	0.09	221.28	-11.27	-9.90	15.00	14.83	87.81	
200.00	200.00	200.00	200.00	0.31	0.31	221.28	-11.27	-9.90	15.00	14.38	24.18	
300.00	300.00	299.30	299.27	0.54	0.54	310.88	-12.89	-11.32	16.88	15.81	15.74	
400.00	399.93	398.36	398.11	0.76	0.78	304.22	-17.71	-15.56	21.23	19.71	13.90	
500.00	499.68	497.01	496.17	1.01	1.05	295.72	-25.70	-22.59	28.34	26.34	14.18	
600.00	599.13	595.32	593.37	1.28	1.37	288.27	-36.75	-32.32	38.55	36.03	15.32	
700.00	698.15	694.53	691.24	1.58	1.73	280.91	-48.95	-43.07	49.65	46.53	15.94	
800.00	796.63	793.58	788.95	1.94	2.09	273.12	-61.14	-53.79	61.02	57.21	16.02	
900.00	894.44	892.35	886.38	2.34	2.46	265.22	-73.29	-64.49	73.43	68.82	15.95	
1000.00	991.46	990.71	983.42	2.81	2.83	257.54	-85.39	-75.14	87.57	82.10	16.01	
1100.00	1087.58	1088.56	1079.94	3.34	3.20	250.36	-97.42	-85.74	104.04	97.65	16.30	
1200.00	1183.00	1185.97	1176.04	3.92	3.57	244.00	-109.41	-96.29	122.82	115.52	16.82	
1300.00	1278.39	1283.36	1272.11	4.52	3.94	239.26	-121.39	-106.84	142.77	134.58	17.43	
1400.00	1373.78	1380.76	1368.19	5.12	4.32	235.69	-133.37	-117.39	163.43	154.38	18.05	
1500.00	1469.17	1478.15	1464.26	5.73	4.69	232.92	-145.35	-127.93	184.57	174.67	18.63	
1600.00	1564.56	1575.54	1560.34	6.34	5.06	230.72	-157.33	-138.48	206.04	195.29	19.17	
1700.00	1659.95	1672.93	1656.42	6.96	5.44	228.93	-169.31	-149.03	227.75	216.16	19.67	

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 6
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

Site: MARATHON 596-34D PAD

Well: 596-34D-27

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1800.00	1755.34	1770.33	1752.49	7.58	5.81	227.46	-181.29	-159.58	249.62	237.21	20.11	
1900.00	1850.73	1867.72	1848.57	8.20	6.19	226.22	-193.27	-170.12	271.64	258.40	20.52	
2000.00	1946.12	1965.11	1944.64	8.82	6.56	225.17	-205.25	-180.67	293.75	279.69	20.90	
2100.00	2041.50	2062.50	2040.72	9.44	6.94	224.26	-217.23	-191.22	315.95	301.07	21.24	
2200.00	2136.89	2159.90	2136.79	10.07	7.31	223.48	-229.22	-201.77	338.21	322.51	21.55	
2300.00	2232.28	2257.29	2232.87	10.69	7.69	222.79	-241.20	-212.32	360.52	344.01	21.83	
2400.00	2327.67	2354.68	2328.95	11.32	8.06	222.18	-253.18	-222.86	382.88	365.55	22.10	
2500.00	2423.06	2452.07	2425.02	11.94	8.44	221.64	-265.16	-233.41	405.27	387.13	22.34	
2600.00	2518.45	2549.47	2521.10	12.57	8.81	221.16	-277.14	-243.96	427.70	408.74	22.56	
2700.00	2613.84	2646.86	2617.17	13.20	9.19	220.72	-289.12	-254.51	450.15	430.38	22.77	
2800.00	2709.23	2744.25	2713.25	13.82	9.57	220.32	-301.10	-265.05	472.62	452.04	22.97	
2900.00	2804.62	2841.48	2809.16	14.45	9.93	219.96	-313.02	-275.55	495.12	473.74	23.16	
3000.00	2900.01	2937.68	2904.40	15.08	10.20	219.39	-323.24	-284.54	517.77	495.72	23.48	
3100.00	2995.40	3033.35	2999.50	15.70	10.40	218.52	-331.01	-291.39	540.73	518.13	23.92	
3200.00	3090.79	3128.29	3094.17	16.33	10.58	217.40	-336.36	-296.10	564.13	541.04	24.44	
3300.00	3186.18	3222.29	3188.08	16.96	10.72	216.07	-339.34	-298.72	588.11	564.63	25.05	
3400.00	3281.57	3315.78	3281.57	17.59	10.85	214.56	-340.06	-299.35	612.84	589.84	26.65	
3500.00	3376.96	3411.17	3376.96	18.22	10.99	213.06	-340.06	-299.35	638.13	614.72	27.26	
3600.00	3472.35	3506.56	3472.35	18.85	11.14	211.66	-340.06	-299.35	663.82	640.00	27.87	
3700.00	3567.73	3601.95	3567.73	19.47	11.28	210.37	-340.06	-299.35	689.86	665.64	28.48	
3800.00	3663.12	3697.34	3663.12	20.10	11.43	209.17	-340.06	-299.35	716.21	691.59	29.09	
3900.00	3758.51	3792.73	3758.51	20.73	11.58	208.05	-340.06	-299.35	742.84	717.82	29.69	
4000.00	3853.90	3888.12	3853.90	21.36	11.74	207.01	-340.06	-299.35	769.72	744.30	30.28	
4100.00	3949.29	3983.51	3949.29	21.99	11.89	206.04	-340.06	-299.35	796.82	771.00	30.86	
4200.00	4044.68	4078.90	4044.68	22.62	12.05	205.13	-340.06	-299.35	824.12	797.88	31.41	
4300.00	4140.07	4174.29	4140.07	23.25	12.21	204.28	-340.06	-299.35	851.61	824.94	31.93	
4400.00	4235.46	4269.68	4235.46	23.88	12.37	203.48	-340.06	-299.35	879.26	852.16	32.44	
4500.00	4330.85	4365.07	4330.85	24.51	12.54	202.73	-340.06	-299.35	907.06	879.53	32.94	
4600.00	4426.24	4460.46	4426.24	25.13	12.70	202.02	-340.06	-299.35	935.00	907.03	33.43	
4700.00	4521.63	4555.85	4521.63	25.76	12.87	201.36	-340.06	-299.35	963.06	934.66	33.90	
4800.00	4617.02	4651.24	4617.02	26.39	13.03	200.73	-340.06	-299.35	991.24	962.40	34.37	
4900.00	4712.41	4746.62	4712.41	27.02	13.20	200.13	-340.06	-299.35	1019.52	990.24	34.81	
5000.00	4807.80	4842.01	4807.80	27.65	13.37	199.57	-340.06	-299.35	1047.90	1018.17	35.25	
5100.00	4903.19	4937.40	4903.19	28.28	13.54	199.04	-340.06	-299.35	1076.37	1046.20	35.67	
5200.00	4998.58	5032.79	4998.58	28.90	13.71	198.53	-340.06	-299.35	1104.91	1074.30	36.09	
5300.00	5094.27	5128.49	5094.27	29.38	13.89	197.97	-340.06	-299.35	1132.60	1101.62	36.56	
5400.00	5190.45	5224.67	5190.45	29.83	14.06	197.47	-340.06	-299.35	1158.76	1127.42	36.97	
5500.00	5287.10	5321.31	5287.10	30.25	14.24	197.03	-340.06	-299.35	1183.35	1151.65	37.33	
5600.00	5384.17	5418.39	5384.17	30.66	14.42	196.63	-340.06	-299.35	1206.37	1174.31	37.63	
5700.00	5481.66	5515.88	5481.66	31.04	14.60	196.27	-340.06	-299.35	1227.79	1195.38	37.88	
5800.00	5579.51	5613.73	5579.51	31.40	14.79	195.95	-340.06	-299.35	1247.60	1214.84	38.09	
5900.00	5677.72	5711.93	5677.72	31.73	14.97	195.66	-340.06	-299.35	1265.78	1232.68	38.24	
6000.00	5776.23	5810.45	5776.23	32.04	15.16	195.41	-340.06	-299.35	1282.33	1248.89	38.35	
6100.00	5875.03	5909.25	5875.03	32.32	15.35	195.19	-340.06	-299.35	1297.23	1263.46	38.41	
6200.00	5974.09	6008.30	5974.09	32.59	15.53	195.00	-340.06	-299.35	1310.47	1276.38	38.44	
6300.00	6073.37	6107.58	6073.37	32.82	15.73	194.84	-340.06	-299.35	1322.05	1287.64	38.42	
6400.00	6172.84	6207.06	6172.84	33.04	15.92	194.70	-340.06	-299.35	1331.96	1297.24	38.36	
6500.00	6272.47	6306.69	6272.47	33.23	16.11	194.59	-340.06	-299.35	1340.19	1305.17	38.27	
6600.00	6372.24	6406.46	6372.24	33.39	16.30	194.50	-340.06	-299.35	1346.74	1311.43	38.14	
6700.00	6472.12	6506.33	6472.12	33.54	16.50	194.43	-340.06	-299.35	1351.61	1316.01	37.97	
6800.00	6572.06	6606.28	6572.06	33.66	16.70	194.39	-340.06	-299.35	1354.79	1318.91	37.76	

Company: MARATHON OIL COMPANY	Date: 2/29/2008	Time: 13:17:48	Page: 7
Field: GARFIELD COUNTY, CO			
Reference Site: MARATHON 596-34D PAD	Co-ordinate(NE) Reference: Well: 596-34D-16, True North		
Reference Well: 596-34D-16	Vertical (TVD) Reference: SITE 8134.0		
Reference Wellpath:	Db: Sybase		

Site: MARATHON 596-34D PAD

Well: 596-34D-27

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
6900.00	6672.05	6706.27	6672.05	33.76	16.89	194.37	-340.06	-299.35	1356.27	1320.13	37.52	
7000.00	6772.05	6806.27	6772.05	33.84	17.09	103.70	-340.06	-299.35	1356.39	1306.34	27.10	
7100.00	6872.05	6906.27	6872.05	33.94	17.29	103.70	-340.06	-299.35	1356.39	1306.04	26.94	
7200.00	6972.05	7006.27	6972.05	34.03	17.49	103.70	-340.06	-299.35	1356.39	1305.75	26.78	
7300.00	7072.05	7106.27	7072.05	34.13	17.69	103.70	-340.06	-299.35	1356.39	1305.45	26.62	
7400.00	7172.05	7206.27	7172.05	34.23	17.89	103.70	-340.06	-299.35	1356.39	1305.15	26.47	
7500.00	7272.05	7306.27	7272.05	34.33	18.09	103.70	-340.06	-299.35	1356.39	1304.85	26.31	
7600.00	7372.05	7406.27	7372.05	34.43	18.29	103.70	-340.06	-299.35	1356.39	1304.54	26.16	
7700.00	7472.05	7506.27	7472.05	34.53	18.49	103.70	-340.06	-299.35	1356.39	1304.24	26.01	
7800.00	7572.05	7606.27	7572.05	34.63	18.69	103.70	-340.06	-299.35	1356.39	1303.93	25.85	
7900.00	7672.05	7706.27	7672.05	34.74	18.89	103.70	-340.06	-299.35	1356.39	1303.62	25.70	
8000.00	7772.05	7806.27	7772.05	34.84	19.10	103.70	-340.06	-299.35	1356.39	1303.31	25.55	
8100.00	7872.05	7906.27	7872.05	34.95	19.30	103.70	-340.06	-299.35	1356.39	1303.00	25.40	
8200.00	7972.05	8006.27	7972.05	35.06	19.51	103.70	-340.06	-299.35	1356.39	1302.69	25.25	
8300.00	8072.05	8106.27	8072.05	35.17	19.71	103.70	-340.06	-299.35	1356.39	1302.37	25.11	
8400.00	8172.05	8206.27	8172.05	35.28	19.92	103.70	-340.06	-299.35	1356.39	1302.05	24.96	
8500.00	8272.05	8306.27	8272.05	35.39	20.12	103.70	-340.06	-299.35	1356.39	1301.74	24.82	
8600.00	8372.05	8406.27	8372.05	35.50	20.33	103.70	-340.06	-299.35	1356.39	1301.42	24.67	
8700.00	8472.05	8506.27	8472.05	35.61	20.53	103.70	-340.06	-299.35	1356.39	1301.09	24.53	
8800.00	8572.05	8606.27	8572.05	35.73	20.74	103.70	-340.06	-299.35	1356.39	1300.77	24.39	
8900.00	8672.05	8706.27	8672.05	35.84	20.95	103.70	-340.06	-299.35	1356.39	1300.45	24.24	
9000.00	8772.05	8806.27	8772.05	35.96	21.15	103.70	-340.06	-299.35	1356.39	1300.12	24.10	
9100.00	8872.05	8906.27	8872.05	36.08	21.36	103.70	-340.06	-299.35	1356.39	1299.79	23.96	
9200.00	8972.05	9006.27	8972.05	36.20	21.57	103.70	-340.06	-299.35	1356.39	1299.47	23.83	
9300.00	9072.05	9106.27	9072.05	36.31	21.78	103.70	-340.06	-299.35	1356.39	1299.14	23.69	
9400.00	9172.05	9206.27	9172.05	36.44	21.99	103.70	-340.06	-299.35	1356.39	1298.81	23.55	
9500.00	9272.05	9306.27	9272.05	36.56	22.20	103.70	-340.06	-299.35	1356.39	1298.47	23.42	
9600.00	9372.05	9406.27	9372.05	36.68	22.41	103.70	-340.06	-299.35	1356.39	1298.14	23.28	
9700.00	9472.05	9506.27	9472.05	36.80	22.62	103.70	-340.06	-299.35	1356.39	1297.81	23.15	
9800.00	9572.05	9606.27	9572.05	36.93	22.83	103.70	-340.06	-299.35	1356.39	1297.47	23.02	
9900.00	9672.05	9706.27	9672.05	37.05	23.04	103.70	-340.06	-299.35	1356.39	1297.13	22.89	
10000.00	9772.05	9806.27	9772.05	37.18	23.25	103.70	-340.06	-299.35	1356.39	1296.79	22.76	
10100.00	9872.05	9906.27	9872.05	37.30	23.46	103.70	-340.06	-299.35	1356.39	1296.45	22.63	
10200.00	9972.05	10006.27	9972.05	37.43	23.67	103.70	-340.06	-299.35	1356.39	1296.11	22.50	
10300.00	10072.05	10106.27	10072.05	37.56	23.88	103.70	-340.06	-299.35	1356.39	1295.77	22.37	
10390.95	10163.00	10197.22	10163.00	37.68	24.07	103.70	-340.06	-299.35	1356.39	1295.46	22.26	