

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Epperly NWSW-23-692**

**Epperly 23C-23-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**28 June, 2011**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Epperly 23C-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Site:</b>	Epperly NWSW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Epperly 23C-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	GARFIELD COUNTY, COLORADO NAD 1983		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

<b>Site</b>	Epperly NWSW-23-692		
<b>Site Position:</b>		<b>Northing:</b>	1,618,446.580 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,396,102.855 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 30' 42.772 N
		<b>Longitude:</b>	107° 38' 26.3004 W
		<b>Grid Convergence:</b>	-1.35 °

<b>Well</b>	Epperly 23C-23-692		
<b>Well Position</b>	<b>+N/-S</b>	-16.40 ft	<b>Northing:</b>
	<b>+E/-W</b>	10.16 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 42.609 N
			<b>Longitude:</b>
			107° 38' 26.1708 W
			<b>Ground Level:</b>
			0.00 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	10.36	65.87	52,481

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	102.16

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
765.00	0.00	0.00	765.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,406.71	16.04	102.16	1,398.36	-18.79	87.25	2.50	2.50	0.00	102.16	
4,732.26	16.04	102.16	4,594.40	-212.32	985.68	0.00	0.00	0.00	0.00	
5,801.78	0.00	0.00	5,650.00	-243.64	1,131.10	1.50	-1.50	0.00	180.00	
7,801.78	0.00	0.00	7,650.00	-243.64	1,131.10	0.00	0.00	0.00	0.00	Epperly 23C-23-692

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## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Epperly 23C-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Site:</b>	Epperly NWSW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Epperly 23C-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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	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	
765.00	0.00	0.00	765.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.87	102.16	800.00	-0.06	0.26	0.27	2.50	2.50	0.00	
900.00	3.37	102.16	899.92	-0.84	3.89	3.97	2.50	2.50	0.00	
1,000.00	5.87	102.16	999.59	-2.53	11.77	12.04	2.50	2.50	0.00	
1,100.00	8.37	102.16	1,098.81	-5.15	23.89	24.44	2.50	2.50	0.00	
1,200.00	10.87	102.16	1,197.39	-8.67	40.24	41.16	2.50	2.50	0.00	
1,300.00	13.37	102.16	1,295.15	-13.09	60.77	62.16	2.50	2.50	0.00	
1,400.00	15.87	102.16	1,391.91	-18.41	85.45	87.41	2.50	2.50	0.00	
1,406.71	16.04	102.16	1,398.36	-18.79	87.25	89.25	2.50	2.50	0.00	
1,500.00	16.04	102.16	1,488.01	-24.22	112.46	115.03	0.00	0.00	0.00	
1,600.00	16.04	102.16	1,584.12	-30.04	139.47	142.67	0.00	0.00	0.00	
1,700.00	16.04	102.16	1,680.23	-35.86	166.49	170.31	0.00	0.00	0.00	
1,800.00	16.04	102.16	1,776.33	-41.68	193.50	197.94	0.00	0.00	0.00	
1,900.00	16.04	102.16	1,872.44	-47.50	220.52	225.58	0.00	0.00	0.00	
2,000.00	16.04	102.16	1,968.54	-53.32	247.53	253.21	0.00	0.00	0.00	
2,100.00	16.04	102.16	2,064.65	-59.14	274.55	280.85	0.00	0.00	0.00	
2,200.00	16.04	102.16	2,160.75	-64.96	301.57	308.48	0.00	0.00	0.00	
2,300.00	16.04	102.16	2,256.86	-70.78	328.58	336.12	0.00	0.00	0.00	
2,400.00	16.04	102.16	2,352.96	-76.60	355.60	363.75	0.00	0.00	0.00	
2,500.00	16.04	102.16	2,449.07	-82.42	382.61	391.39	0.00	0.00	0.00	
2,600.00	16.04	102.16	2,545.18	-88.24	409.63	419.03	0.00	0.00	0.00	
2,700.00	16.04	102.16	2,641.28	-94.06	436.65	446.66	0.00	0.00	0.00	
2,800.00	16.04	102.16	2,737.39	-99.87	463.66	474.30	0.00	0.00	0.00	
2,900.00	16.04	102.16	2,833.49	-105.69	490.68	501.93	0.00	0.00	0.00	
3,000.00	16.04	102.16	2,929.60	-111.51	517.69	529.57	0.00	0.00	0.00	
3,100.00	16.04	102.16	3,025.70	-117.33	544.71	557.20	0.00	0.00	0.00	
3,200.00	16.04	102.16	3,121.81	-123.15	571.72	584.84	0.00	0.00	0.00	
3,300.00	16.04	102.16	3,217.91	-128.97	598.74	612.47	0.00	0.00	0.00	
3,400.00	16.04	102.16	3,314.02	-134.79	625.76	640.11	0.00	0.00	0.00	
3,500.00	16.04	102.16	3,410.13	-140.61	652.77	667.74	0.00	0.00	0.00	
3,600.00	16.04	102.16	3,506.23	-146.43	679.79	695.38	0.00	0.00	0.00	
3,700.00	16.04	102.16	3,602.34	-152.25	706.80	723.02	0.00	0.00	0.00	
3,800.00	16.04	102.16	3,698.44	-158.07	733.82	750.65	0.00	0.00	0.00	
3,900.00	16.04	102.16	3,794.55	-163.89	760.84	778.29	0.00	0.00	0.00	
4,000.00	16.04	102.16	3,890.65	-169.71	787.85	805.92	0.00	0.00	0.00	
4,100.00	16.04	102.16	3,986.76	-175.53	814.87	833.56	0.00	0.00	0.00	
4,200.00	16.04	102.16	4,082.86	-181.35	841.88	861.19	0.00	0.00	0.00	
4,300.00	16.04	102.16	4,178.97	-187.16	868.90	888.83	0.00	0.00	0.00	
4,400.00	16.04	102.16	4,275.08	-192.98	895.92	916.46	0.00	0.00	0.00	
4,500.00	16.04	102.16	4,371.18	-198.80	922.93	944.10	0.00	0.00	0.00	
4,600.00	16.04	102.16	4,467.29	-204.62	949.95	971.74	0.00	0.00	0.00	
4,700.00	16.04	102.16	4,563.39	-210.44	976.96	999.37	0.00	0.00	0.00	
4,732.26	16.04	102.16	4,594.40	-212.32	985.68	1,008.29	0.00	0.00	0.00	
4,800.00	15.03	102.16	4,659.66	-216.14	1,003.41	1,026.43	1.50	-1.50	0.00	
4,900.00	13.53	102.16	4,756.57	-221.33	1,027.52	1,051.09	1.50	-1.50	0.00	

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<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Site:</b>	Epperly NWSW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Epperly 23C-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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)
5,000.00	12.03	102.16	4,854.09	-225.99	1,049.14	1,073.20	1.50	-1.50	0.00
5,100.00	10.53	102.16	4,952.16	-230.11	1,068.25	1,092.76	1.50	-1.50	0.00
5,200.00	9.03	102.16	5,050.70	-233.68	1,084.85	1,109.74	1.50	-1.50	0.00
5,300.00	7.53	102.16	5,149.66	-236.71	1,098.93	1,124.13	1.50	-1.50	0.00
5,400.00	6.03	102.16	5,248.96	-239.20	1,110.46	1,135.93	1.50	-1.50	0.00
5,500.00	4.53	102.16	5,348.53	-241.14	1,119.45	1,145.13	1.50	-1.50	0.00
5,600.00	3.03	102.16	5,448.31	-242.52	1,125.89	1,151.72	1.50	-1.50	0.00
5,700.00	1.53	102.16	5,548.23	-243.36	1,129.77	1,155.69	1.50	-1.50	0.00
5,800.00	0.03	102.16	5,648.22	-243.64	1,131.10	1,157.04	1.50	-1.50	0.00
5,801.78	0.00	0.00	5,650.00	-243.64	1,131.10	1,157.04	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,748.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,000.00	0.00	0.00	5,848.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,100.00	0.00	0.00	5,948.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,200.00	0.00	0.00	6,048.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,300.00	0.00	0.00	6,148.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,400.00	0.00	0.00	6,248.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,500.00	0.00	0.00	6,348.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,600.00	0.00	0.00	6,448.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,700.00	0.00	0.00	6,548.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,800.00	0.00	0.00	6,648.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
6,900.00	0.00	0.00	6,748.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,000.00	0.00	0.00	6,848.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,100.00	0.00	0.00	6,948.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,200.00	0.00	0.00	7,048.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,300.00	0.00	0.00	7,148.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,400.00	0.00	0.00	7,248.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,500.00	0.00	0.00	7,348.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,600.00	0.00	0.00	7,448.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,700.00	0.00	0.00	7,548.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,800.00	0.00	0.00	7,648.22	-243.64	1,131.10	1,157.04	0.00	0.00	0.00
7,801.78	0.00	0.00	7,650.00	-243.64	1,131.10	1,157.04	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
785.00	785.00	9 5/8"	9-5/8	12-1/4

Formations				
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)
3,765.20	3,665.00	Mesaverde		0.00
4,712.08	4,575.00	Price Coal		0.00
5,526.55	5,375.00	Top Gas		0.00
7,501.78	7,350.00	Rollins		0.00
7,801.78	7,650.00	TD		0.00

**Bill Barrett Corp**  
Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Epperly 23C-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5853.00ft (Original Well Elev)
<b>Site:</b>	Epperly NWSW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Epperly 23C-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

## WELL DETAILS: Epperly 23C-23-692

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1618429.946	2396112.623	0.00	39° 30' 42.609 N	107° 38' 26.1708 W	

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	765.00	0.00	0.00	765.00	0.00	0.00	0.00	0.00	0.00	
3	1406.71	16.04	102.16	1398.36	-18.79	87.25	2.50	102.16	89.25	
4	4732.26	16.04	102.16	4594.40	-212.32	985.68	0.00	0.00	1008.29	
5	5801.78	0.00	0.00	5650.00	-243.64	1131.10	1.50	180.00	1157.04	
6	7801.78	0.00	0.00	7650.00	-243.64	1131.10	0.00	0.00	1157.04	Epperly 23C-23-692 (TD)

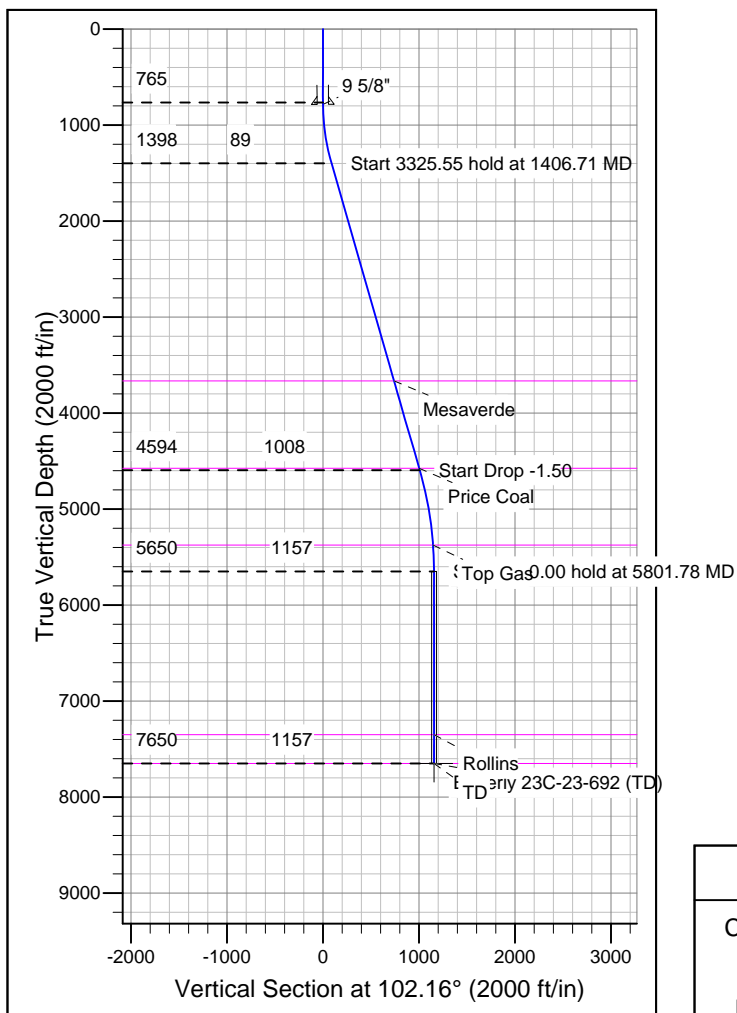
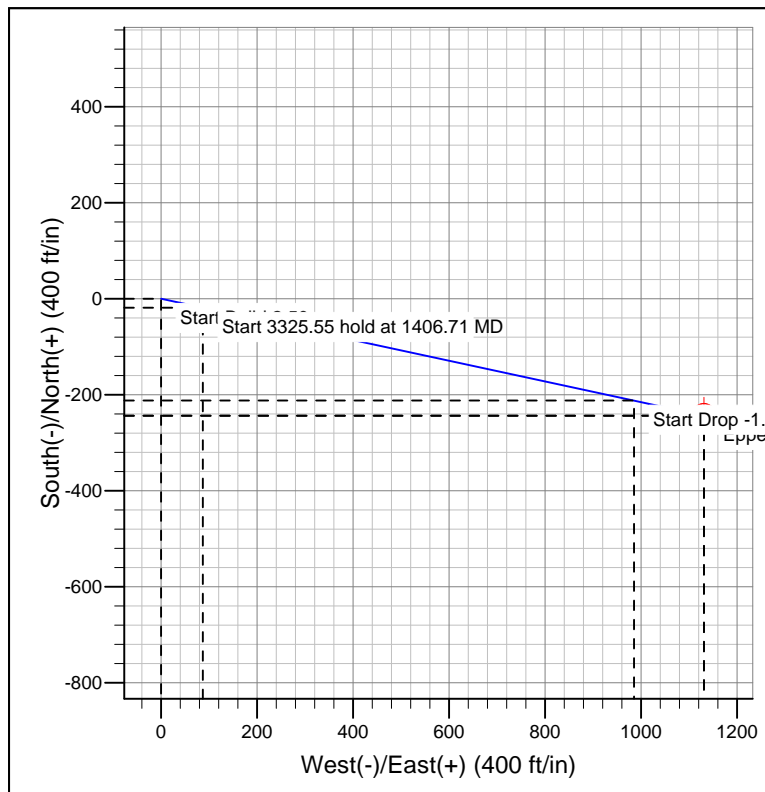
## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Epperly 23C-23-692 (TD)	-243.64	1131.10	Circle (Radius: 25.00)	



Azimuths to True North  
Magnetic North: 10.36°

Magnetic Field  
Strength: 52481.0snT  
Dip Angle: 65.87°  
Date: 12/31/2009  
Model: IGRF200510



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3665.00	3765.20	Mesaverde
4575.00	4712.08	Price Coal
5375.00	5526.55	Top Gas
7350.00	7501.78	Rollins
7650.00	7801.78	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Epperly 23C-23-692, True North  
Vertical (TVD) Reference: WELL @ 5853.00ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: WELL @ 5853.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature