

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**CBC #1**

**CBC 13A-22-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**24 January, 2012**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBC 13A-22-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5773.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5773.00ft (Original Well Elev)
<b>Site:</b>	CBC #1	<b>North Reference:</b>	True
<b>Well:</b>	CBC 13A-22-692	<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>	CBC #1		
<b>Site Position:</b>		<b>Northing:</b>	1,617,285.528 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,392,460.705 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 30' 30.449 N
		<b>Longitude:</b>	107° 39' 12.4092 W
		<b>Grid Convergence:</b>	-1.36 °

<b>Well</b>	CBC 13A-22-692		
<b>Well Position</b>	<b>+N/-S</b>	9.83 ft	<b>Northing:</b>
	<b>+E/-W</b>	1.13 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 30.546 N
			<b>Longitude:</b>
			107° 39' 12.3948 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>
	IGRF2010	1/24/2012	10.12	65.80	52,241

<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	279.34

<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	
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,985.41	30.64	279.34	1,927.85	51.92	-315.63	2.50	2.50	0.00	279.34	
3,967.83	30.64	279.34	3,633.58	215.87	-1,312.42	0.00	0.00	0.00	0.00	
6,010.18	0.00	0.00	5,580.00	302.40	-1,838.47	1.50	-1.50	0.00	180.00	
8,010.18	0.00	0.00	7,580.00	302.40	-1,838.47	0.00	0.00	0.00	0.00	CBC 13A-22-692 (T

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBC 13A-22-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5773.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5773.00ft (Original Well Elev)
<b>Site:</b>	CBC #1	<b>North Reference:</b>	True
<b>Well:</b>	CBC 13A-22-692	<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	
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	1.00	279.34	800.00	0.06	-0.34	0.35	2.50	2.50	0.00	
900.00	3.50	279.34	899.91	0.69	-4.22	4.27	2.50	2.50	0.00	
1,000.00	6.00	279.34	999.56	2.04	-12.39	12.55	2.50	2.50	0.00	
1,100.00	8.50	279.34	1,098.75	4.09	-24.84	25.17	2.50	2.50	0.00	
1,200.00	11.00	279.34	1,197.30	6.83	-41.55	42.11	2.50	2.50	0.00	
1,300.00	13.50	279.34	1,295.02	10.28	-62.48	63.32	2.50	2.50	0.00	
1,400.00	16.00	279.34	1,391.71	14.41	-87.60	88.78	2.50	2.50	0.00	
1,500.00	18.50	279.34	1,487.21	19.22	-116.86	118.43	2.50	2.50	0.00	
1,600.00	21.00	279.34	1,581.32	24.71	-150.20	152.22	2.50	2.50	0.00	
1,700.00	23.50	279.34	1,673.87	30.85	-187.56	190.08	2.50	2.50	0.00	
1,800.00	26.00	279.34	1,764.67	37.65	-228.87	231.95	2.50	2.50	0.00	
1,900.00	28.50	279.34	1,853.57	45.08	-274.05	277.73	2.50	2.50	0.00	
1,985.41	30.64	279.34	1,927.85	51.92	-315.63	319.87	2.50	2.50	0.00	
2,000.00	30.64	279.34	1,940.40	53.12	-322.97	327.31	0.00	0.00	0.00	
2,100.00	30.64	279.34	2,026.45	61.39	-373.25	378.26	0.00	0.00	0.00	
2,200.00	30.64	279.34	2,112.49	69.66	-423.53	429.22	0.00	0.00	0.00	
2,300.00	30.64	279.34	2,198.53	77.93	-473.81	480.18	0.00	0.00	0.00	
2,400.00	30.64	279.34	2,284.58	86.20	-524.09	531.14	0.00	0.00	0.00	
2,500.00	30.64	279.34	2,370.62	94.47	-574.38	582.09	0.00	0.00	0.00	
2,600.00	30.64	279.34	2,456.66	102.74	-624.66	633.05	0.00	0.00	0.00	
2,700.00	30.64	279.34	2,542.70	111.01	-674.94	684.01	0.00	0.00	0.00	
2,800.00	30.64	279.34	2,628.75	119.29	-725.22	734.96	0.00	0.00	0.00	
2,900.00	30.64	279.34	2,714.79	127.56	-775.50	785.92	0.00	0.00	0.00	
3,000.00	30.64	279.34	2,800.83	135.83	-825.78	836.88	0.00	0.00	0.00	
3,100.00	30.64	279.34	2,886.88	144.10	-876.06	887.84	0.00	0.00	0.00	
3,200.00	30.64	279.34	2,972.92	152.37	-926.34	938.79	0.00	0.00	0.00	
3,300.00	30.64	279.34	3,058.96	160.64	-976.63	989.75	0.00	0.00	0.00	
3,400.00	30.64	279.34	3,145.01	168.91	-1,026.91	1,040.71	0.00	0.00	0.00	
3,500.00	30.64	279.34	3,231.05	177.18	-1,077.19	1,091.66	0.00	0.00	0.00	
3,600.00	30.64	279.34	3,317.09	185.45	-1,127.47	1,142.62	0.00	0.00	0.00	
3,700.00	30.64	279.34	3,403.13	193.72	-1,177.75	1,193.58	0.00	0.00	0.00	
3,800.00	30.64	279.34	3,489.18	201.99	-1,228.03	1,244.53	0.00	0.00	0.00	
3,900.00	30.64	279.34	3,575.22	210.26	-1,278.31	1,295.49	0.00	0.00	0.00	
3,967.83	30.64	279.34	3,633.58	215.87	-1,312.42	1,330.05	0.00	0.00	0.00	
4,000.00	30.15	279.34	3,661.33	218.51	-1,328.48	1,346.33	1.50	-1.50	0.00	
4,100.00	28.65	279.34	3,748.45	226.48	-1,376.92	1,395.42	1.50	-1.50	0.00	
4,200.00	27.15	279.34	3,836.82	234.07	-1,423.10	1,442.22	1.50	-1.50	0.00	
4,300.00	25.65	279.34	3,926.39	241.29	-1,466.98	1,486.69	1.50	-1.50	0.00	
4,400.00	24.15	279.34	4,017.09	248.12	-1,508.52	1,528.79	1.50	-1.50	0.00	
4,500.00	22.65	279.34	4,108.86	254.57	-1,547.71	1,568.51	1.50	-1.50	0.00	
4,600.00	21.15	279.34	4,201.64	260.62	-1,584.52	1,605.81	1.50	-1.50	0.00	
4,700.00	19.65	279.34	4,295.36	266.28	-1,618.92	1,640.67	1.50	-1.50	0.00	
4,800.00	18.15	279.34	4,389.96	271.54	-1,650.89	1,673.07	1.50	-1.50	0.00	
4,900.00	16.65	279.34	4,485.38	276.39	-1,680.40	1,702.98	1.50	-1.50	0.00	

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBC 13A-22-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5773.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5773.00ft (Original Well Elev)
<b>Site:</b>	CBC #1	<b>North Reference:</b>	True
<b>Well:</b>	CBC 13A-22-692	<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	15.15	279.34	4,581.55	280.84	-1,707.43	1,730.38	1.50	-1.50	0.00
5,100.00	13.65	279.34	4,678.41	284.88	-1,731.98	1,755.25	1.50	-1.50	0.00
5,200.00	12.15	279.34	4,775.88	288.50	-1,754.01	1,777.58	1.50	-1.50	0.00
5,300.00	10.65	279.34	4,873.90	291.71	-1,773.52	1,797.35	1.50	-1.50	0.00
5,400.00	9.15	279.34	4,972.41	294.50	-1,790.49	1,814.54	1.50	-1.50	0.00
5,500.00	7.65	279.34	5,071.34	296.87	-1,804.90	1,829.16	1.50	-1.50	0.00
5,600.00	6.15	279.34	5,170.61	298.82	-1,816.76	1,841.18	1.50	-1.50	0.00
5,700.00	4.65	279.34	5,270.16	300.35	-1,826.05	1,850.59	1.50	-1.50	0.00
5,800.00	3.15	279.34	5,369.93	301.46	-1,832.77	1,857.40	1.50	-1.50	0.00
5,900.00	1.65	279.34	5,469.84	302.14	-1,836.91	1,861.59	1.50	-1.50	0.00
6,000.00	0.15	279.34	5,569.82	302.39	-1,838.46	1,863.16	1.50	-1.50	0.00
6,010.18	0.00	0.00	5,580.00	302.40	-1,838.47	1,863.18	1.50	-1.50	0.00
6,100.00	0.00	0.00	5,669.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,200.00	0.00	0.00	5,769.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,300.00	0.00	0.00	5,869.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,400.00	0.00	0.00	5,969.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,500.00	0.00	0.00	6,069.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,600.00	0.00	0.00	6,169.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,700.00	0.00	0.00	6,269.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,800.00	0.00	0.00	6,369.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
6,900.00	0.00	0.00	6,469.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,000.00	0.00	0.00	6,569.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,100.00	0.00	0.00	6,669.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,200.00	0.00	0.00	6,769.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,300.00	0.00	0.00	6,869.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,400.00	0.00	0.00	6,969.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,500.00	0.00	0.00	7,069.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,600.00	0.00	0.00	7,169.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,700.00	0.00	0.00	7,269.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,800.00	0.00	0.00	7,369.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
7,900.00	0.00	0.00	7,469.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
8,000.00	0.00	0.00	7,569.82	302.40	-1,838.47	1,863.18	0.00	0.00	0.00
8,010.18	0.00	0.00	7,580.00	302.40	-1,838.47	1,863.18	0.00	0.00	0.00

### Formations

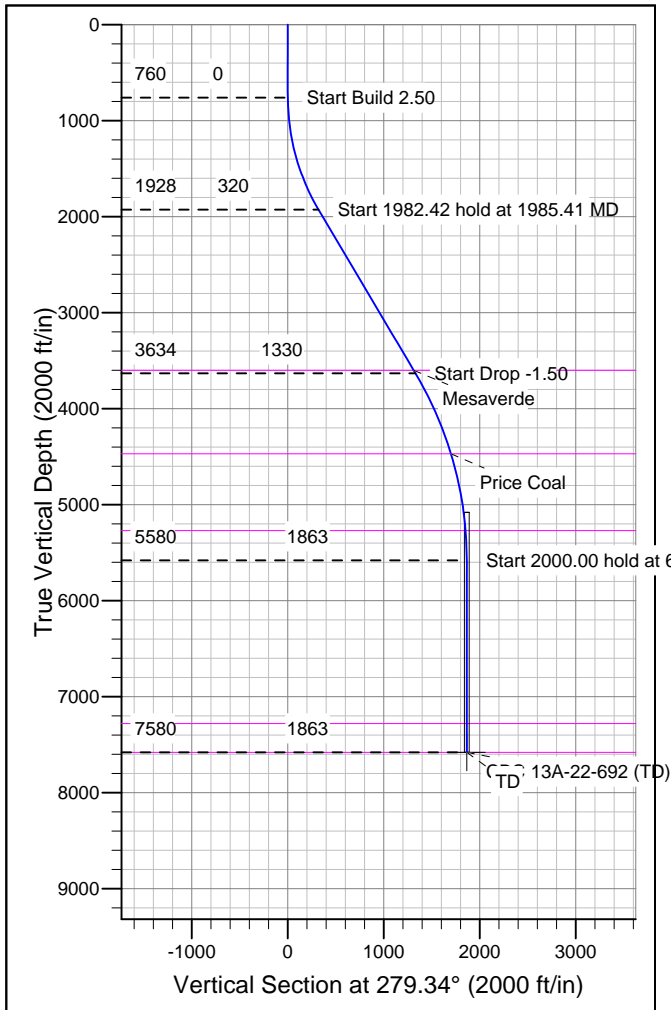
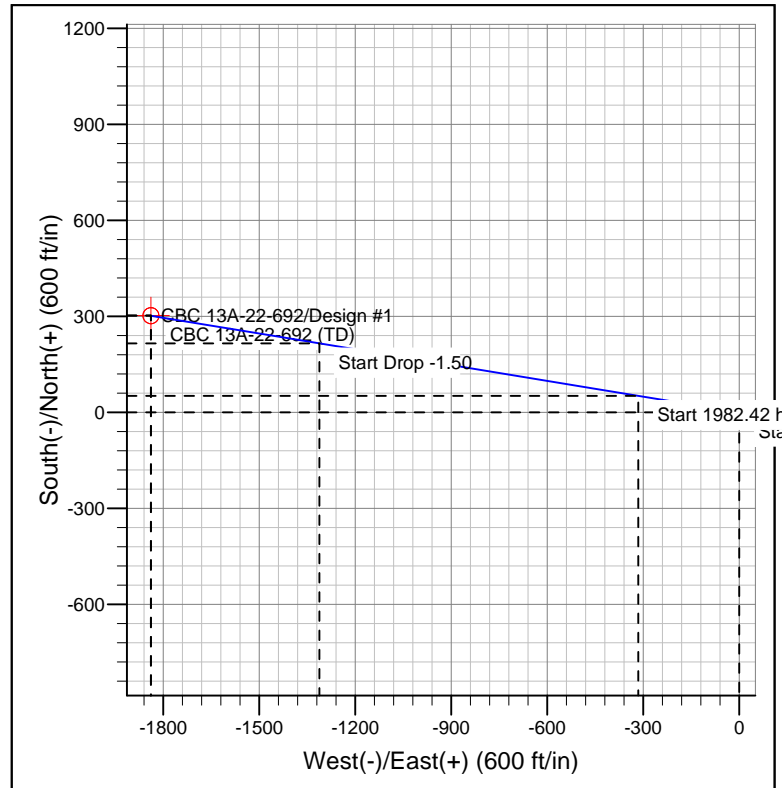
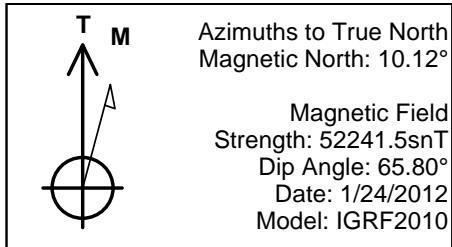
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,928.80	3,600.00	Mesaverde		0.00	
4,883.93	4,470.00	Price Coal		0.00	
5,699.84	5,270.00	Top Gas		0.00	
7,710.18	7,280.00	Rollins		0.00	
8,010.18	7,580.00	TD		0.00	

# WELL DETAILS: CBC 13A-22-692

+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.00	0.00	1617295.324	2392462.066	39° 30' 30.546 N	07° 39' 12.3948 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	760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	
3	1985.41	30.64	279.34	1927.85	51.92	-315.63	2.50	279.34	319.87	
4	3967.83	30.64	279.34	3633.58	215.87	-1312.42	0.00	0.00	1330.05	
5	6010.18	0.00	0.00	5580.00	302.40	-1838.47	1.50	180.00	1863.18	
6	8010.18	0.00	0.00	7580.00	302.40	-1838.47	0.00	0.00	1863.18	CBC 13A-22-692 (TD)



## FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3600.00	3928.80	Mesaverde
4470.00	4883.93	Price Coal
5270.00	5699.84	Top Gas
7280.00	7710.18	Rollins
7580.00	8010.18	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CBC 13A-22-692, True North  
 Vertical (TVD) Reference: WELL @ 5773.00ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 5773.00ft (Original Well Elev)  
 Calculation Method: Minimum Curvature