

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**CBC #1**

**CBC 13C-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 13C-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 13C-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 13C-22-692		
<b>Well Position</b>	<b>+N/-S</b>	28.40 ft	<b>Northing:</b>
	<b>+E/-W</b>	13.83 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 30.729 N
			<b>Longitude:</b>
			107° 39' 12.2328 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	296.84

<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	
2,191.83	35.80	296.84	2,100.49	195.48	-386.26	2.50	2.50	0.00	296.84	
3,776.53	35.80	296.84	3,385.85	614.02	-1,213.27	0.00	0.00	0.00	0.00	
6,162.92	0.00	0.00	5,620.00	939.82	-1,857.05	1.50	-1.50	0.00	180.00	
8,162.92	0.00	0.00	7,620.00	939.82	-1,857.05	0.00	0.00	0.00	0.00	CBC 13C-22-692 (1

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBC 13C-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 13C-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	296.84	800.00	0.16	-0.31	0.35	2.50	2.50	0.00	
900.00	3.50	296.84	899.91	1.93	-3.81	4.27	2.50	2.50	0.00	
1,000.00	6.00	296.84	999.56	5.67	-11.20	12.55	2.50	2.50	0.00	
1,100.00	8.50	296.84	1,098.75	11.37	-22.46	25.17	2.50	2.50	0.00	
1,200.00	11.00	296.84	1,197.30	19.01	-37.57	42.11	2.50	2.50	0.00	
1,300.00	13.50	296.84	1,295.02	28.59	-56.50	63.32	2.50	2.50	0.00	
1,400.00	16.00	296.84	1,391.71	40.09	-79.21	88.78	2.50	2.50	0.00	
1,500.00	18.50	296.84	1,487.21	53.48	-105.67	118.43	2.50	2.50	0.00	
1,600.00	21.00	296.84	1,581.32	68.74	-135.82	152.22	2.50	2.50	0.00	
1,700.00	23.50	296.84	1,673.87	85.83	-169.60	190.08	2.50	2.50	0.00	
1,800.00	26.00	296.84	1,764.67	104.74	-206.95	231.95	2.50	2.50	0.00	
1,900.00	28.50	296.84	1,853.57	125.41	-247.80	277.73	2.50	2.50	0.00	
2,000.00	31.00	296.84	1,940.38	147.81	-292.07	327.35	2.50	2.50	0.00	
2,100.00	33.50	296.84	2,024.95	171.91	-339.68	380.70	2.50	2.50	0.00	
2,191.83	35.80	296.84	2,100.49	195.48	-386.26	432.91	2.50	2.50	0.00	
2,200.00	35.80	296.84	2,107.11	197.64	-390.53	437.69	0.00	0.00	0.00	
2,300.00	35.80	296.84	2,188.22	224.05	-442.71	496.18	0.00	0.00	0.00	
2,400.00	35.80	296.84	2,269.33	250.46	-494.90	554.67	0.00	0.00	0.00	
2,500.00	35.80	296.84	2,350.45	276.87	-547.09	613.16	0.00	0.00	0.00	
2,600.00	35.80	296.84	2,431.56	303.28	-599.27	671.65	0.00	0.00	0.00	
2,700.00	35.80	296.84	2,512.67	329.69	-651.46	730.14	0.00	0.00	0.00	
2,800.00	35.80	296.84	2,593.78	356.10	-703.65	788.63	0.00	0.00	0.00	
2,900.00	35.80	296.84	2,674.89	382.52	-755.84	847.12	0.00	0.00	0.00	
3,000.00	35.80	296.84	2,756.00	408.93	-808.02	905.61	0.00	0.00	0.00	
3,100.00	35.80	296.84	2,837.11	435.34	-860.21	964.10	0.00	0.00	0.00	
3,200.00	35.80	296.84	2,918.22	461.75	-912.40	1,022.59	0.00	0.00	0.00	
3,300.00	35.80	296.84	2,999.33	488.16	-964.59	1,081.08	0.00	0.00	0.00	
3,400.00	35.80	296.84	3,080.44	514.57	-1,016.77	1,139.57	0.00	0.00	0.00	
3,500.00	35.80	296.84	3,161.55	540.98	-1,068.96	1,198.06	0.00	0.00	0.00	
3,600.00	35.80	296.84	3,242.66	567.39	-1,121.15	1,256.55	0.00	0.00	0.00	
3,700.00	35.80	296.84	3,323.77	593.80	-1,173.33	1,315.04	0.00	0.00	0.00	
3,776.53	35.80	296.84	3,385.85	614.02	-1,213.27	1,359.80	0.00	0.00	0.00	
3,800.00	35.44	296.84	3,404.93	620.19	-1,225.47	1,373.47	1.50	-1.50	0.00	
3,900.00	33.94	296.84	3,487.14	645.89	-1,276.25	1,430.38	1.50	-1.50	0.00	
4,000.00	32.44	296.84	3,570.82	670.61	-1,325.10	1,485.13	1.50	-1.50	0.00	
4,100.00	30.94	296.84	3,655.91	694.33	-1,371.98	1,537.67	1.50	-1.50	0.00	
4,200.00	29.44	296.84	3,742.34	717.04	-1,416.85	1,587.96	1.50	-1.50	0.00	
4,300.00	27.94	296.84	3,830.06	738.72	-1,459.69	1,635.97	1.50	-1.50	0.00	
4,400.00	26.44	296.84	3,919.00	759.36	-1,500.46	1,681.67	1.50	-1.50	0.00	
4,500.00	24.94	296.84	4,009.11	778.93	-1,539.14	1,725.02	1.50	-1.50	0.00	
4,600.00	23.44	296.84	4,100.32	797.44	-1,575.71	1,766.00	1.50	-1.50	0.00	
4,700.00	21.94	296.84	4,192.58	814.86	-1,610.13	1,804.58	1.50	-1.50	0.00	
4,800.00	20.44	296.84	4,285.81	831.18	-1,642.39	1,840.73	1.50	-1.50	0.00	
4,900.00	18.94	296.84	4,379.96	846.40	-1,672.45	1,874.43	1.50	-1.50	0.00	

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## Planning Report

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<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 13C-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	17.44	296.84	4,474.96	860.50	-1,700.31	1,905.66	1.50	-1.50	0.00
5,100.00	15.94	296.84	4,570.74	873.47	-1,725.94	1,934.38	1.50	-1.50	0.00
5,200.00	14.44	296.84	4,667.24	885.30	-1,749.33	1,960.59	1.50	-1.50	0.00
5,300.00	12.94	296.84	4,764.40	895.99	-1,770.45	1,984.26	1.50	-1.50	0.00
5,400.00	11.44	296.84	4,862.14	905.53	-1,789.29	2,005.38	1.50	-1.50	0.00
5,500.00	9.94	296.84	4,960.40	913.91	-1,805.85	2,023.94	1.50	-1.50	0.00
5,600.00	8.44	296.84	5,059.11	921.12	-1,820.11	2,039.91	1.50	-1.50	0.00
5,700.00	6.94	296.84	5,158.21	927.17	-1,832.05	2,053.30	1.50	-1.50	0.00
5,800.00	5.44	296.84	5,257.62	932.04	-1,841.68	2,064.09	1.50	-1.50	0.00
5,900.00	3.94	296.84	5,357.28	935.74	-1,848.98	2,072.27	1.50	-1.50	0.00
6,000.00	2.44	296.84	5,457.13	938.25	-1,853.95	2,077.85	1.50	-1.50	0.00
6,100.00	0.94	296.84	5,557.08	939.59	-1,856.59	2,080.80	1.50	-1.50	0.00
6,162.92	0.00	0.00	5,620.00	939.82	-1,857.05	2,081.32	1.50	-1.50	0.00
6,200.00	0.00	0.00	5,657.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,300.00	0.00	0.00	5,757.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,400.00	0.00	0.00	5,857.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,500.00	0.00	0.00	5,957.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,600.00	0.00	0.00	6,057.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,700.00	0.00	0.00	6,157.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,800.00	0.00	0.00	6,257.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
6,900.00	0.00	0.00	6,357.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,000.00	0.00	0.00	6,457.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,100.00	0.00	0.00	6,557.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,200.00	0.00	0.00	6,657.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,300.00	0.00	0.00	6,757.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,400.00	0.00	0.00	6,857.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,500.00	0.00	0.00	6,957.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,600.00	0.00	0.00	7,057.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,700.00	0.00	0.00	7,157.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,800.00	0.00	0.00	7,257.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
7,900.00	0.00	0.00	7,357.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
8,000.00	0.00	0.00	7,457.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
8,100.00	0.00	0.00	7,557.08	939.82	-1,857.05	2,081.32	0.00	0.00	0.00
8,162.92	0.00	0.00	7,620.00	939.82	-1,857.05	2,081.32	0.00	0.00	0.00

### Formations

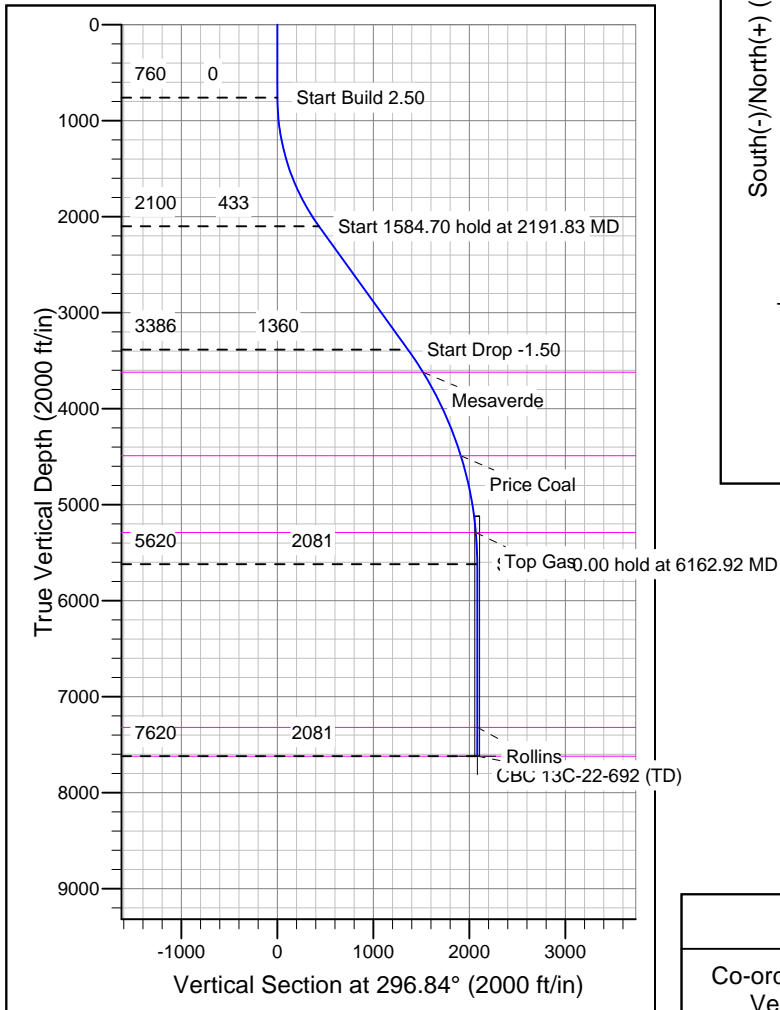
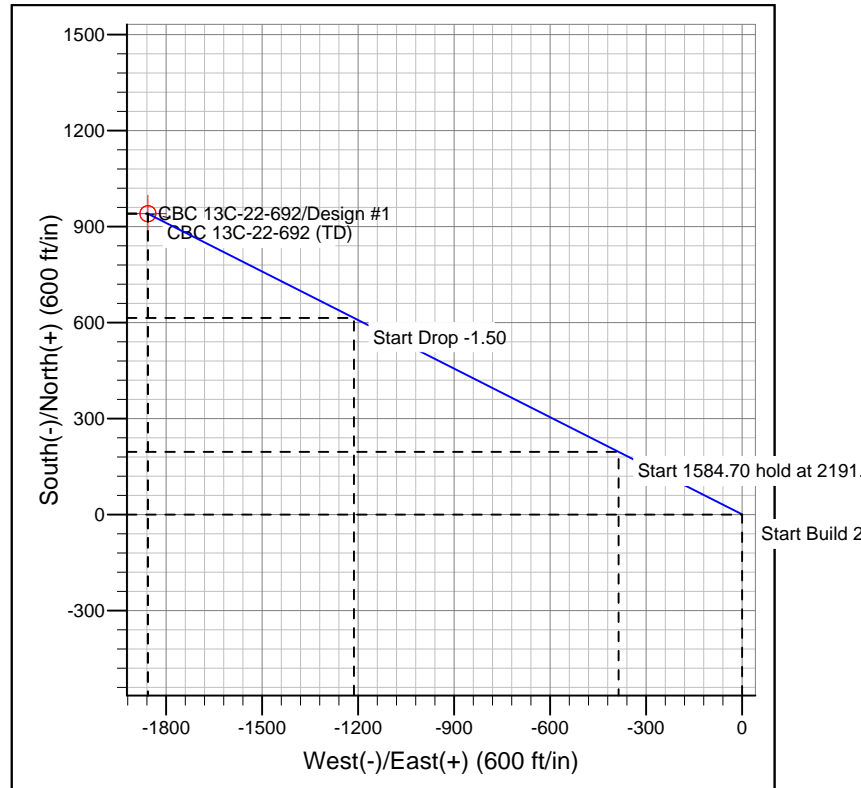
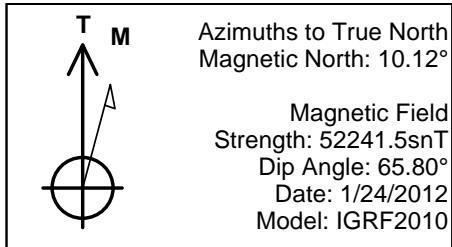
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,057.99	3,620.00	Mesaverde		0.00	
5,015.76	4,490.00	Price Coal		0.00	
5,832.51	5,290.00	Top Gas		0.00	
7,862.92	7,320.00	Rollins		0.00	
8,162.92	7,620.00	TD		0.00	

# WELL DETAILS: CBC 13C-22-692

+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.00	0.00	1617313.595	2392475.199	39° 30' 30.729 N	07° 39' 12.2328 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	2191.83	35.80	296.84	2100.49	195.48	-386.26	2.50	296.84	432.91	
4	3776.53	35.80	296.84	3385.85	614.02	-1213.27	0.00	0.00	1359.80	
5	6162.92	0.00	0.00	5620.00	939.82	-1857.05	1.50	180.00	2081.32	
6	8162.92	0.00	0.00	7620.00	939.82	-1857.05	0.00	0.00	2081.32	CBC 13C-22-692 (TD)



## FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3620.00	4057.99	Mesaverde
4490.00	5015.76	Price Coal
5290.00	5832.51	Top Gas
7320.00	7862.92	Rollins
7620.00	8162.92	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CBC 13C-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