

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Circle B Tract #5 Pad**

**CBS 31C-21-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**08 June, 2010**

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 31C-21-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Site:</b>	Circle B Tract #5 Pad	<b>North Reference:</b>	True
<b>Well:</b>	CBS 31C-21-692	<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		

Site						Circle B Tract #5 Pad											
<b>Site Position:</b>						<b>Northing:</b>			1,619,626.425 ft			<b>Latitude:</b>			39° 30' 52.412 N		
<b>From:</b>			Lat/Long			<b>Easting:</b>			2,387,502.827 ft			<b>Longitude:</b>			107° 40' 16.3632 W		
<b>Position Uncertainty:</b>			0.00 ft			<b>Slot Radius:</b>			"			<b>Grid Convergence:</b>			-1.37 °		

Well	CBS 31C-21-692					
Well Position	+N-S	32.41 ft	Northing:	1,619,661.784 ft	Latitude:	39° 30' 52.733 N
	+E-W	-123.85 ft	Easting:	2,387,379.783 ft	Longitude:	107° 40' 17.9436 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	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>
	BGGM2007	6/7/2010	10.40	65.82	52,428

<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	25.35

<b>Plan Sections</b>										
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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,650.96	21.27	25.35	1,631.55	141.13	66.88	2.50	2.50	0.00	25.35	
4,546.85	21.27	25.35	4,330.09	1,090.64	516.80	0.00	0.00	0.00	0.00	
5,965.12	0.00	0.00	5,716.00	1,325.86	628.26	1.50	-1.50	0.00	180.00	
7,965.12	0.00	0.00	7,716.00	1,325.86	628.26	0.00	0.00	0.00	0.00	CBS 31C-21-692 TI

**BBC**  
Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 31C-21-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Site:</b>	Circle B Tract #5 Pad	<b>North Reference:</b>	True
<b>Well:</b>	CBS 31C-21-692	<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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>9 5/8"</b>									
900.00	2.50	25.35	899.97	1.97	0.93	2.18	2.50	2.50	0.00
1,000.00	5.00	25.35	999.75	7.88	3.73	8.72	2.50	2.50	0.00
1,100.00	7.50	25.35	1,099.14	17.72	8.40	19.61	2.50	2.50	0.00
1,200.00	10.00	25.35	1,197.97	31.46	14.91	34.82	2.50	2.50	0.00
1,300.00	12.50	25.35	1,296.04	49.09	23.26	54.33	2.50	2.50	0.00
1,400.00	15.00	25.35	1,393.17	70.57	33.44	78.09	2.50	2.50	0.00
1,500.00	17.50	25.35	1,489.17	95.86	45.42	106.07	2.50	2.50	0.00
1,600.00	20.00	25.35	1,583.85	124.90	59.18	138.21	2.50	2.50	0.00
1,650.96	21.27	25.35	1,631.55	141.13	66.88	156.18	2.50	2.50	0.00
1,700.00	21.27	25.35	1,677.24	157.21	74.49	173.97	0.00	0.00	0.00
1,800.00	21.27	25.35	1,770.43	190.00	90.03	210.25	0.00	0.00	0.00
1,900.00	21.27	25.35	1,863.61	222.79	105.57	246.53	0.00	0.00	0.00
2,000.00	21.27	25.35	1,956.80	255.58	121.11	282.82	0.00	0.00	0.00
2,100.00	21.27	25.35	2,049.98	288.36	136.64	319.10	0.00	0.00	0.00
2,200.00	21.27	25.35	2,143.17	321.15	152.18	355.38	0.00	0.00	0.00
2,300.00	21.27	25.35	2,236.35	353.94	167.72	391.67	0.00	0.00	0.00
2,400.00	21.27	25.35	2,329.54	386.73	183.25	427.95	0.00	0.00	0.00
2,500.00	21.27	25.35	2,422.72	419.52	198.79	464.23	0.00	0.00	0.00
2,600.00	21.27	25.35	2,515.91	452.30	214.33	500.51	0.00	0.00	0.00
2,700.00	21.27	25.35	2,609.10	485.09	229.86	536.80	0.00	0.00	0.00
2,800.00	21.27	25.35	2,702.28	517.88	245.40	573.08	0.00	0.00	0.00
2,900.00	21.27	25.35	2,795.47	550.67	260.94	609.36	0.00	0.00	0.00
3,000.00	21.27	25.35	2,888.65	583.46	276.47	645.65	0.00	0.00	0.00
3,100.00	21.27	25.35	2,981.84	616.24	292.01	681.93	0.00	0.00	0.00
3,200.00	21.27	25.35	3,075.02	649.03	307.55	718.21	0.00	0.00	0.00
3,300.00	21.27	25.35	3,168.21	681.82	323.08	754.49	0.00	0.00	0.00
3,400.00	21.27	25.35	3,261.39	714.61	338.62	790.78	0.00	0.00	0.00
3,500.00	21.27	25.35	3,354.58	747.40	354.16	827.06	0.00	0.00	0.00
3,600.00	21.27	25.35	3,447.77	780.18	369.69	863.34	0.00	0.00	0.00
3,700.00	21.27	25.35	3,540.95	812.97	385.23	899.63	0.00	0.00	0.00
3,800.00	21.27	25.35	3,634.14	845.76	400.77	935.91	0.00	0.00	0.00
3,887.85	21.27	25.35	3,716.00	874.57	414.42	967.78	0.00	0.00	0.00
<b>Mesaverde</b>									
3,900.00	21.27	25.35	3,727.32	878.55	416.30	972.19	0.00	0.00	0.00
4,000.00	21.27	25.35	3,820.51	911.34	431.84	1,008.47	0.00	0.00	0.00
4,100.00	21.27	25.35	3,913.69	944.13	447.38	1,044.76	0.00	0.00	0.00
4,200.00	21.27	25.35	4,006.88	976.91	462.91	1,081.04	0.00	0.00	0.00
4,300.00	21.27	25.35	4,100.06	1,009.70	478.45	1,117.32	0.00	0.00	0.00
4,400.00	21.27	25.35	4,193.25	1,042.49	493.99	1,153.61	0.00	0.00	0.00
4,500.00	21.27	25.35	4,286.44	1,075.28	509.52	1,189.89	0.00	0.00	0.00
4,546.85	21.27	25.35	4,330.09	1,090.64	516.80	1,206.89	0.00	0.00	0.00
4,600.00	20.48	25.35	4,379.75	1,107.75	524.91	1,225.83	1.50	-1.50	0.00
4,700.00	18.98	25.35	4,473.88	1,138.26	539.37	1,259.58	1.50	-1.50	0.00

# BBC

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<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Site:</b>	Circle B Tract #5 Pad	<b>North Reference:</b>	True
<b>Well:</b>	CBS 31C-21-692	<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)
4,800.00	17.48	25.35	4,568.86	1,166.52	552.76	1,290.86	1.50	-1.50	0.00
4,870.19	16.42	25.35	4,636.00	1,185.01	561.52	1,311.32	1.50	-1.50	0.00
<b>Price Coal</b>									
4,900.00	15.98	25.35	4,664.63	1,192.53	565.08	1,319.64	1.50	-1.50	0.00
5,000.00	14.48	25.35	4,761.11	1,216.26	576.33	1,345.90	1.50	-1.50	0.00
5,100.00	12.98	25.35	4,858.26	1,237.70	586.49	1,369.63	1.50	-1.50	0.00
5,200.00	11.48	25.35	4,955.98	1,256.84	595.56	1,390.81	1.50	-1.50	0.00
5,300.00	9.98	25.35	5,054.23	1,273.66	603.53	1,409.42	1.50	-1.50	0.00
5,400.00	8.48	25.35	5,152.94	1,288.15	610.39	1,425.45	1.50	-1.50	0.00
5,500.00	6.98	25.35	5,252.03	1,300.30	616.15	1,438.90	1.50	-1.50	0.00
5,600.00	5.48	25.35	5,351.43	1,310.10	620.80	1,449.74	1.50	-1.50	0.00
5,644.75	4.81	25.35	5,396.00	1,313.73	622.51	1,453.75	1.50	-1.50	0.00
<b>Top Gas</b>									
5,700.00	3.98	25.35	5,451.09	1,317.55	624.32	1,457.98	1.50	-1.50	0.00
5,800.00	2.48	25.35	5,550.93	1,322.63	626.73	1,463.61	1.50	-1.50	0.00
5,900.00	0.98	25.35	5,650.88	1,325.36	628.02	1,466.63	1.50	-1.50	0.00
5,965.12	0.00	0.00	5,716.00	1,325.86	628.26	1,467.18	1.50	-1.50	0.00
6,000.00	0.00	0.00	5,750.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,100.00	0.00	0.00	5,850.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,200.00	0.00	0.00	5,950.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,300.00	0.00	0.00	6,050.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,400.00	0.00	0.00	6,150.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,500.00	0.00	0.00	6,250.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,600.00	0.00	0.00	6,350.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,700.00	0.00	0.00	6,450.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,800.00	0.00	0.00	6,550.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
6,900.00	0.00	0.00	6,650.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,000.00	0.00	0.00	6,750.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,100.00	0.00	0.00	6,850.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,200.00	0.00	0.00	6,950.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,300.00	0.00	0.00	7,050.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,400.00	0.00	0.00	7,150.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,500.00	0.00	0.00	7,250.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,600.00	0.00	0.00	7,350.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,665.12	0.00	0.00	7,416.00	1,325.86	628.26	1,467.18	0.00	0.00	0.00
<b>Rollins</b>									
7,700.00	0.00	0.00	7,450.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,800.00	0.00	0.00	7,550.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,900.00	0.00	0.00	7,650.88	1,325.86	628.26	1,467.18	0.00	0.00	0.00
7,965.12	0.00	0.00	7,716.00	1,325.86	628.26	1,467.18	0.00	0.00	0.00
<b>TD</b>									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
800.00	800.00	9 5/8"		9-5/8	12-1/4

# BBC

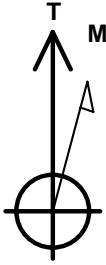
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 31C-21-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 0.00ft (Original Well Elev)
<b>Site:</b>	Circle B Tract #5 Pad	<b>North Reference:</b>	True
<b>Well:</b>	CBS 31C-21-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,887.85	3,716.00	Mesaverde		0.00		
4,870.19	4,636.00	Price Coal		0.00		
5,644.75	5,396.00	Top Gas		0.00		
7,665.12	7,416.00	Rollins		0.00		
7,965.12	7,716.00	TD		0.00		

## WELL DETAILS: CBS 31C-21-692

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1619661.784 2387379.733 30° 52.737' N 107° 17.9436' W



Azimuths to True North  
 Magnetic North: 10.40°

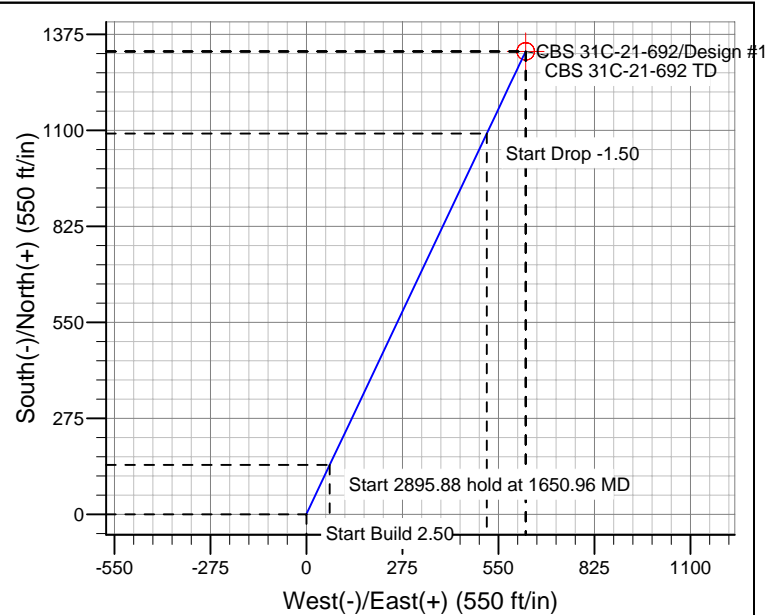
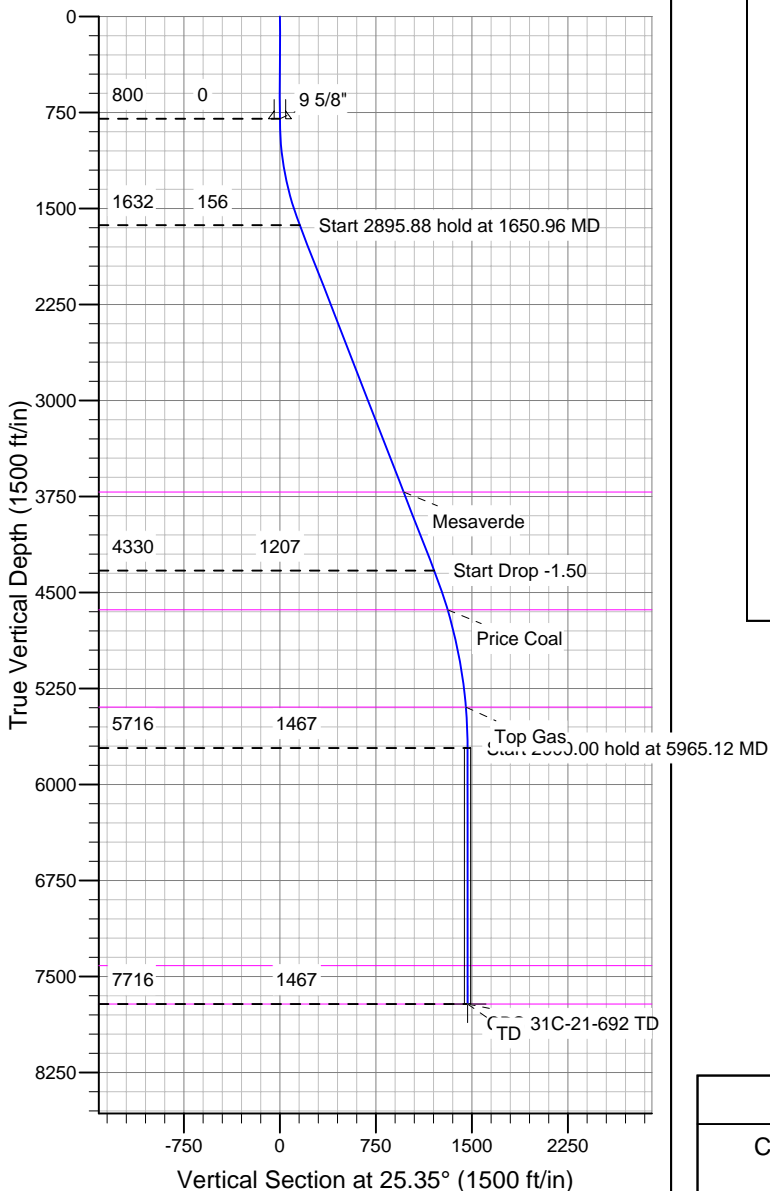
Magnetic Field  
 Strength: 52427.8snT  
 Dip Angle: 65.82°  
 Date: 6/7/2010  
 Model: BGGM2007

## 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	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1650.96	21.27	25.351631.55	141.13	66.88	2.50	25.35	156.18		
4	4646.85	21.27	25.354330.091090.64	516.80	0.00	0.00	206.89			
5	5965.12	0.00	0.005716.001325.86	628.26	1.50	180.00	1467.18			
7	7965.12	0.00	0.007716.001325.86	628.26	0.00	0.00	1467.18			CBS 31C-21-692 TD

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
CBS 31C-21-692 TD	7965.12	1325.86	628.26	Circle (Radius: 25.00)



## CASING DETAILS

TVD	MD	Name	Size
800.00	800.00	9 5/8"	9-5/8

## FORMATION TOP DETAILS

TVD	MD	Formation
3716.00	3887.85	Mesaverde
4636.00	4870.19	Price Coal
5396.00	5644.75	Top Gas
7416.00	7665.12	Rollins
7716.00	7965.12	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CBS 31C-21-692, True North  
 Vertical (TVD) Reference: WELL @ 0.00ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 0.00ft (Original Well Elev)  
 Calculation Method: Minimum Curvature