

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Circle B Tract #5 Pad**

**CBS 31B-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 31B-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 31B-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		

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

<b>Well</b>	CBS 31B-21-692		
<b>Well Position</b>	<b>+N/-S</b>	28.40 ft	<b>Northing:</b>
	<b>+E/-W</b>	-108.34 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 52.693 N
			<b>Longitude:</b>
			107° 40' 17.7456 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>
	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	31.37

<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	
790.00	0.00	0.00	790.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,435.06	16.13	31.37	1,426.58	77.00	46.95	2.50	2.50	0.00	31.37	
4,785.35	16.13	31.37	4,645.03	871.53	531.40	0.00	0.00	0.00	0.00	
5,860.45	0.00	0.00	5,706.00	999.86	609.65	1.50	-1.50	0.00	180.00	
7,860.45	0.00	0.00	7,706.00	999.86	609.65	0.00	0.00	0.00	0.00	CBS 31B-21-692 TI

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 31B-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 31B-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
790.00	0.00	0.00	790.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	0.25	31.37	800.00	0.02	0.01	0.02	2.50	2.50	0.00
900.00	2.75	31.37	899.96	2.25	1.37	2.64	2.50	2.50	0.00
1,000.00	5.25	31.37	999.71	8.21	5.01	9.61	2.50	2.50	0.00
1,100.00	7.75	31.37	1,099.06	17.87	10.90	20.93	2.50	2.50	0.00
1,200.00	10.25	31.37	1,197.82	31.23	19.04	36.58	2.50	2.50	0.00
1,300.00	12.75	31.37	1,295.80	48.25	29.42	56.51	2.50	2.50	0.00
1,400.00	15.25	31.37	1,392.82	68.90	42.01	80.70	2.50	2.50	0.00
1,435.06	16.13	31.37	1,426.58	77.00	46.95	90.18	2.50	2.50	0.00
1,500.00	16.13	31.37	1,488.96	92.40	56.34	108.22	0.00	0.00	0.00
1,600.00	16.13	31.37	1,585.03	116.11	70.80	136.00	0.00	0.00	0.00
1,700.00	16.13	31.37	1,681.09	139.83	85.26	163.77	0.00	0.00	0.00
1,800.00	16.13	31.37	1,777.16	163.54	99.72	191.55	0.00	0.00	0.00
1,900.00	16.13	31.37	1,873.22	187.26	114.18	219.32	0.00	0.00	0.00
2,000.00	16.13	31.37	1,969.29	210.97	128.64	247.10	0.00	0.00	0.00
2,100.00	16.13	31.37	2,065.35	234.69	143.10	274.88	0.00	0.00	0.00
2,200.00	16.13	31.37	2,161.42	258.40	157.56	302.65	0.00	0.00	0.00
2,300.00	16.13	31.37	2,257.48	282.12	172.02	330.43	0.00	0.00	0.00
2,400.00	16.13	31.37	2,353.55	305.84	186.48	358.20	0.00	0.00	0.00
2,500.00	16.13	31.37	2,449.61	329.55	200.94	385.98	0.00	0.00	0.00
2,600.00	16.13	31.37	2,545.68	353.27	215.40	413.76	0.00	0.00	0.00
2,700.00	16.13	31.37	2,641.74	376.98	229.86	441.53	0.00	0.00	0.00
2,800.00	16.13	31.37	2,737.81	400.70	244.32	469.31	0.00	0.00	0.00
2,900.00	16.13	31.37	2,833.87	424.41	258.78	497.08	0.00	0.00	0.00
3,000.00	16.13	31.37	2,929.94	448.13	273.24	524.86	0.00	0.00	0.00
3,100.00	16.13	31.37	3,026.00	471.84	287.70	552.64	0.00	0.00	0.00
3,200.00	16.13	31.37	3,122.07	495.56	302.16	580.41	0.00	0.00	0.00
3,300.00	16.13	31.37	3,218.13	519.27	316.62	608.19	0.00	0.00	0.00
3,400.00	16.13	31.37	3,314.20	542.99	331.08	635.96	0.00	0.00	0.00
3,500.00	16.13	31.37	3,410.26	566.70	345.54	663.74	0.00	0.00	0.00
3,600.00	16.13	31.37	3,506.33	590.42	360.00	691.52	0.00	0.00	0.00
3,700.00	16.13	31.37	3,602.39	614.13	374.46	719.29	0.00	0.00	0.00
3,792.24	16.13	31.37	3,691.00	636.01	387.80	744.91	0.00	0.00	0.00
Mesaverde									
3,800.00	16.13	31.37	3,698.46	637.85	388.92	747.07	0.00	0.00	0.00
3,900.00	16.13	31.37	3,794.52	661.56	403.38	774.84	0.00	0.00	0.00
4,000.00	16.13	31.37	3,890.59	685.28	417.84	802.62	0.00	0.00	0.00
4,100.00	16.13	31.37	3,986.65	708.99	432.30	830.40	0.00	0.00	0.00
4,200.00	16.13	31.37	4,082.72	732.71	446.76	858.17	0.00	0.00	0.00
4,300.00	16.13	31.37	4,178.78	756.43	461.22	885.95	0.00	0.00	0.00
4,400.00	16.13	31.37	4,274.85	780.14	475.68	913.72	0.00	0.00	0.00
4,500.00	16.13	31.37	4,370.91	803.86	490.14	941.50	0.00	0.00	0.00
4,600.00	16.13	31.37	4,466.98	827.57	504.60	969.28	0.00	0.00	0.00
4,700.00	16.13	31.37	4,563.04	851.29	519.06	997.05	0.00	0.00	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 31B-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)
4,765.54	16.13	31.37	4,626.00	866.83	528.54	1,015.26	0.00	0.00	0.00
<b>Price Coal</b>									
4,785.35	16.13	31.37	4,645.03	871.53	531.40	1,020.76	0.00	0.00	0.00
4,800.00	15.91	31.37	4,659.12	874.98	533.51	1,024.80	1.50	-1.50	0.00
4,900.00	14.41	31.37	4,755.63	897.30	547.12	1,050.95	1.50	-1.50	0.00
5,000.00	12.91	31.37	4,852.80	917.46	559.41	1,074.56	1.50	-1.50	0.00
5,100.00	11.41	31.37	4,950.56	935.44	570.37	1,095.62	1.50	-1.50	0.00
5,200.00	9.91	31.37	5,048.83	951.23	580.00	1,114.11	1.50	-1.50	0.00
5,300.00	8.41	31.37	5,147.55	964.81	588.28	1,130.02	1.50	-1.50	0.00
5,400.00	6.91	31.37	5,246.66	976.19	595.22	1,143.34	1.50	-1.50	0.00
5,500.00	5.41	31.37	5,346.08	985.35	600.80	1,154.07	1.50	-1.50	0.00
5,540.08	4.81	31.37	5,386.00	988.39	602.66	1,157.64	1.50	-1.50	0.00
<b>Top Gas</b>									
5,600.00	3.91	31.37	5,445.75	992.28	605.03	1,162.19	1.50	-1.50	0.00
5,700.00	2.41	31.37	5,545.59	996.98	607.90	1,167.69	1.50	-1.50	0.00
5,800.00	0.91	31.37	5,645.55	999.45	609.40	1,170.59	1.50	-1.50	0.00
5,860.45	0.00	0.00	5,706.00	999.86	609.65	1,171.06	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,745.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,000.00	0.00	0.00	5,845.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,100.00	0.00	0.00	5,945.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,200.00	0.00	0.00	6,045.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,300.00	0.00	0.00	6,145.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,400.00	0.00	0.00	6,245.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,500.00	0.00	0.00	6,345.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,600.00	0.00	0.00	6,445.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,700.00	0.00	0.00	6,545.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,800.00	0.00	0.00	6,645.55	999.86	609.65	1,171.06	0.00	0.00	0.00
6,900.00	0.00	0.00	6,745.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,000.00	0.00	0.00	6,845.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,100.00	0.00	0.00	6,945.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,200.00	0.00	0.00	7,045.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,300.00	0.00	0.00	7,145.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,400.00	0.00	0.00	7,245.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,500.00	0.00	0.00	7,345.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,560.45	0.00	0.00	7,406.00	999.86	609.65	1,171.06	0.00	0.00	0.00
<b>Rollins</b>									
7,600.00	0.00	0.00	7,445.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,700.00	0.00	0.00	7,545.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,800.00	0.00	0.00	7,645.55	999.86	609.65	1,171.06	0.00	0.00	0.00
7,860.45	0.00	0.00	7,706.00	999.86	609.65	1,171.06	0.00	0.00	0.00
<b>TD</b>									

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
790.00	790.00	9 5/8"	9-5/8	12-1/4

# BBC

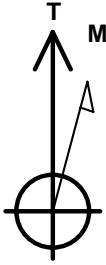
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 31B-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 31B-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 (°)	
3,792.24	3,691.00	Mesaverde		0.00		
4,765.54	4,626.00	Price Coal		0.00		
5,540.08	5,386.00	Top Gas		0.00		
7,560.45	7,406.00	Rollins		0.00		
7,860.45	7,706.00	TD		0.00		

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

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1619657.408 2387395.299 30° 52.693' N 107° 17.7456 W



Azimuths to True North  
 Magnetic North: 10.40°

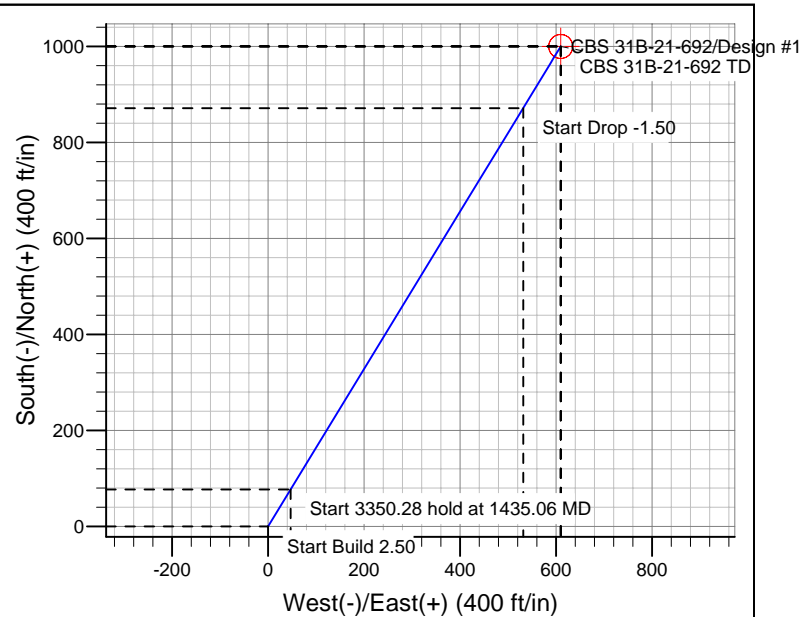
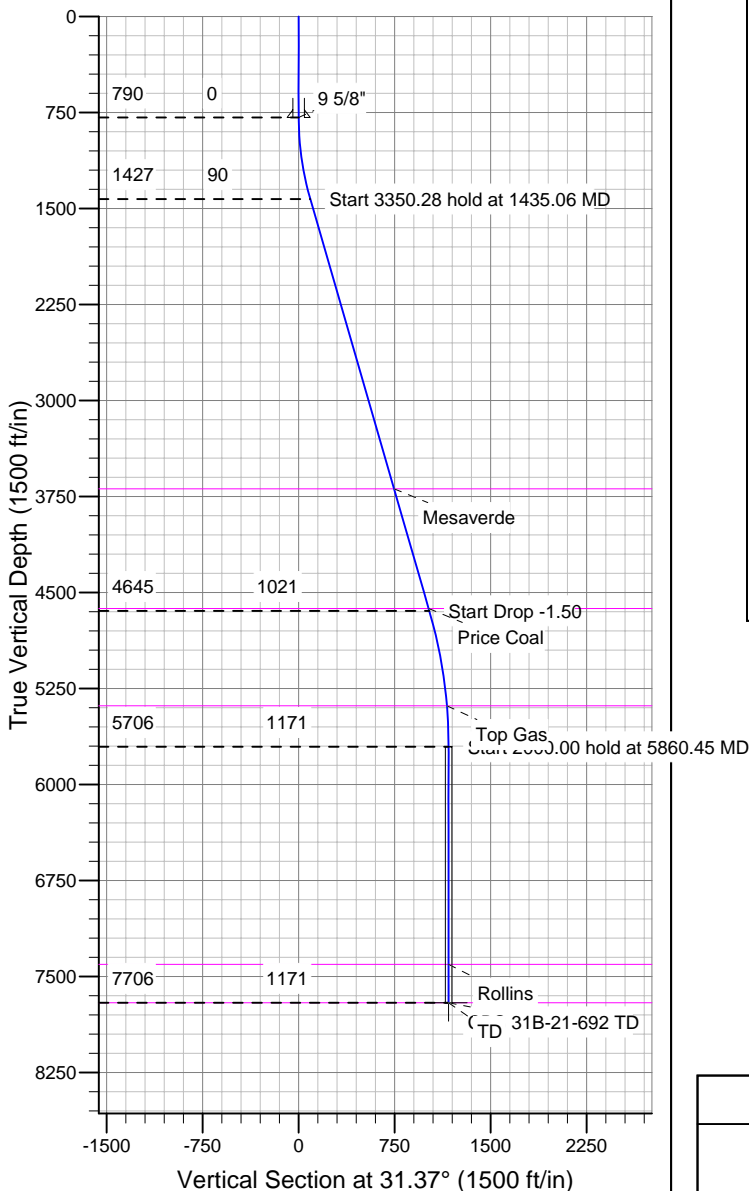
Magnetic Field  
 Strength: 52427.8snT  
 Dip Angle: 65.82°  
 Date: 6/7/2010  
 Model: BGGM2007

## 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	790.00	0.00	0.00	790.00	0.00	0.00	0.00	0.00	0.00	
3	1435.06	16.13	31.37	1426.58	77.00	46.95	2.50	31.37	90.18	
4	4785.35	16.13	31.37	4645.03	871.53	531.40	0.00	0.00	020.76	
5	5860.45	0.00	0.00	5706.00	999.86	609.65	1.50	180.00	171.06	
6	7860.45	0.00	0.00	7706.00	999.86	609.65	0.00	0.00	171.06	CBS 31B-21-692 TD

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
CBS 31B-21-692 TD	7706.00	999.86	609.65	Circle (Radius: 25.00)



## CASING DETAILS

TVD	MD	Name	Size
790.00	790.00	9 5/8"	9-5/8

## FORMATION TOP DETAILS

TVD	MD	Formation
3691.00	3792.24	Mesaverde
4626.00	4765.54	Price Coal
5386.00	5540.08	Top Gas
7406.00	7560.45	Rollins
7706.00	7860.45	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CBS 31B-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