

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Circle B Tract #5 Pad**

**CBS 42B-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 42B-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 42B-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			
Site Position: From: Position Uncertainty:		Northing:	1,619,626.425 ft	Latitude:	39° 30' 52.412 N
	Lat/Long	Easting:	2,387,502.827 ft	Longitude:	107° 40' 16.3632 W
	0.00 ft	Slot Radius:	"	Grid Convergence:	-1.37 °

Well	CBS 42B-21-692					
Well Position	+N-S	0.00 ft	Northing:	1,619,626.420 ft	Latitude:	39° 30' 52.412 N
	+E-W	0.00 ft	Easting:	2,387,502.827 ft	Longitude:	107° 40' 16.3632 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	99.52	

<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	
810.00	0.00	0.00	810.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,030.34	30.51	99.52	1,973.48	-52.45	312.93	2.50	2.50	0.00	99.52	
4,038.78	30.51	99.52	3,703.86	-221.02	1,318.51	0.00	0.00	0.00	0.00	
6,072.67	0.00	0.00	5,643.00	-308.44	1,840.05	1.50	-1.50	0.00	180.00	
8,072.67	0.00	0.00	7,643.00	-308.44	1,840.05	0.00	0.00	0.00	0.00	CBS 42B-21-692 TI

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 42B-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 42B-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
810.00	0.00	0.00	810.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
900.00	2.25	99.52	899.98	-0.29	1.74	1.77	2.50	2.50	0.00
1,000.00	4.75	99.52	999.78	-1.30	7.76	7.87	2.50	2.50	0.00
1,100.00	7.25	99.52	1,099.23	-3.03	18.07	18.32	2.50	2.50	0.00
1,200.00	9.75	99.52	1,198.12	-5.47	32.65	33.10	2.50	2.50	0.00
1,300.00	12.25	99.52	1,296.28	-8.63	51.46	52.18	2.50	2.50	0.00
1,400.00	14.75	99.52	1,393.50	-12.49	74.49	75.52	2.50	2.50	0.00
1,500.00	17.25	99.52	1,489.62	-17.04	101.67	103.09	2.50	2.50	0.00
1,600.00	19.75	99.52	1,584.45	-22.29	132.96	134.81	2.50	2.50	0.00
1,700.00	22.25	99.52	1,677.80	-28.21	168.30	170.65	2.50	2.50	0.00
1,800.00	24.75	99.52	1,769.50	-34.80	207.62	210.52	2.50	2.50	0.00
1,900.00	27.25	99.52	1,859.37	-42.05	250.85	254.35	2.50	2.50	0.00
2,000.00	29.75	99.52	1,947.24	-49.94	297.91	302.07	2.50	2.50	0.00
2,030.34	30.51	99.52	1,973.48	-52.45	312.93	317.29	2.50	2.50	0.00
2,100.00	30.51	99.52	2,033.50	-58.30	347.81	352.66	0.00	0.00	0.00
2,200.00	30.51	99.52	2,119.66	-66.69	397.87	403.42	0.00	0.00	0.00
2,300.00	30.51	99.52	2,205.81	-75.09	447.94	454.19	0.00	0.00	0.00
2,400.00	30.51	99.52	2,291.97	-83.48	498.01	504.96	0.00	0.00	0.00
2,500.00	30.51	99.52	2,378.12	-91.87	548.08	555.72	0.00	0.00	0.00
2,600.00	30.51	99.52	2,464.28	-100.27	598.14	606.49	0.00	0.00	0.00
2,700.00	30.51	99.52	2,550.43	-108.66	648.21	657.26	0.00	0.00	0.00
2,800.00	30.51	99.52	2,636.59	-117.05	698.28	708.02	0.00	0.00	0.00
2,900.00	30.51	99.52	2,722.75	-125.44	748.35	758.79	0.00	0.00	0.00
3,000.00	30.51	99.52	2,808.90	-133.84	798.42	809.56	0.00	0.00	0.00
3,100.00	30.51	99.52	2,895.06	-142.23	848.48	860.32	0.00	0.00	0.00
3,200.00	30.51	99.52	2,981.21	-150.62	898.55	911.09	0.00	0.00	0.00
3,300.00	30.51	99.52	3,067.37	-159.01	948.62	961.85	0.00	0.00	0.00
3,400.00	30.51	99.52	3,153.52	-167.41	998.69	1,012.62	0.00	0.00	0.00
3,500.00	30.51	99.52	3,239.68	-175.80	1,048.75	1,063.39	0.00	0.00	0.00
3,600.00	30.51	99.52	3,325.83	-184.19	1,098.82	1,114.15	0.00	0.00	0.00
3,700.00	30.51	99.52	3,411.99	-192.59	1,148.89	1,164.92	0.00	0.00	0.00
3,800.00	30.51	99.52	3,498.15	-200.98	1,198.96	1,215.69	0.00	0.00	0.00
3,900.00	30.51	99.52	3,584.30	-209.37	1,249.03	1,266.45	0.00	0.00	0.00
3,968.13	30.51	99.52	3,643.00	-215.09	1,283.14	1,301.04	0.00	0.00	0.00
Mesaverde									
4,000.00	30.51	99.52	3,670.46	-217.76	1,299.09	1,317.22	0.00	0.00	0.00
4,038.78	30.51	99.52	3,703.86	-221.02	1,318.51	1,336.90	0.00	0.00	0.00
4,100.00	29.59	99.52	3,756.86	-226.09	1,348.74	1,367.56	1.50	-1.50	0.00
4,200.00	28.09	99.52	3,844.45	-234.06	1,396.31	1,415.80	1.50	-1.50	0.00
4,300.00	26.59	99.52	3,933.28	-241.65	1,441.61	1,461.72	1.50	-1.50	0.00
4,400.00	25.09	99.52	4,023.28	-248.86	1,484.59	1,505.31	1.50	-1.50	0.00
4,500.00	23.59	99.52	4,114.39	-255.67	1,525.24	1,546.52	1.50	-1.50	0.00
4,600.00	22.09	99.52	4,206.55	-262.09	1,563.52	1,585.34	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 42B-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)
4,700.00	20.59	99.52	4,299.69	-268.10	1,599.41	1,621.72	1.50	-1.50	0.00
4,800.00	19.09	99.52	4,393.75	-273.72	1,632.88	1,655.66	1.50	-1.50	0.00
4,900.00	17.59	99.52	4,488.67	-278.92	1,663.91	1,687.13	1.50	-1.50	0.00
4,977.73	16.42	99.52	4,563.00	-282.68	1,686.34	1,709.86	1.50	-1.50	0.00
Price Coal									
5,000.00	16.09	99.52	4,584.38	-283.71	1,692.48	1,716.10	1.50	-1.50	0.00
5,100.00	14.59	99.52	4,680.81	-288.08	1,718.57	1,742.55	1.50	-1.50	0.00
5,200.00	13.09	99.52	4,777.90	-292.03	1,742.16	1,766.47	1.50	-1.50	0.00
5,300.00	11.59	99.52	4,875.59	-295.57	1,763.24	1,787.84	1.50	-1.50	0.00
5,400.00	10.09	99.52	4,973.80	-298.68	1,781.79	1,806.65	1.50	-1.50	0.00
5,500.00	8.59	99.52	5,072.47	-301.36	1,797.79	1,822.88	1.50	-1.50	0.00
5,600.00	7.09	99.52	5,171.54	-303.61	1,811.25	1,836.52	1.50	-1.50	0.00
5,700.00	5.59	99.52	5,270.92	-305.44	1,822.14	1,847.56	1.50	-1.50	0.00
5,772.36	4.50	99.52	5,343.00	-306.49	1,828.42	1,853.93	1.50	-1.50	0.00
Top Gas									
5,800.00	4.09	99.52	5,370.56	-306.83	1,830.46	1,856.00	1.50	-1.50	0.00
5,900.00	2.59	99.52	5,470.39	-307.80	1,836.20	1,861.82	1.50	-1.50	0.00
6,000.00	1.09	99.52	5,570.34	-308.33	1,839.37	1,865.03	1.50	-1.50	0.00
6,072.67	0.00	0.00	5,643.00	-308.44	1,840.05	1,865.72	1.50	-1.50	0.00
6,100.00	0.00	0.00	5,670.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,200.00	0.00	0.00	5,770.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,300.00	0.00	0.00	5,870.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,400.00	0.00	0.00	5,970.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,500.00	0.00	0.00	6,070.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,600.00	0.00	0.00	6,170.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,700.00	0.00	0.00	6,270.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,800.00	0.00	0.00	6,370.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
6,900.00	0.00	0.00	6,470.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,000.00	0.00	0.00	6,570.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,100.00	0.00	0.00	6,670.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,200.00	0.00	0.00	6,770.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,300.00	0.00	0.00	6,870.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,400.00	0.00	0.00	6,970.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,500.00	0.00	0.00	7,070.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,600.00	0.00	0.00	7,170.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,700.00	0.00	0.00	7,270.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,772.67	0.00	0.00	7,343.00	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
Rollins									
7,800.00	0.00	0.00	7,370.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
7,900.00	0.00	0.00	7,470.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
8,000.00	0.00	0.00	7,570.33	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
8,072.67	0.00	0.00	7,643.00	-308.44	1,840.05	1,865.72	0.00	0.00	0.00
TD									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
810.00	810.00	9 5/8"	9-5/8	12-1/4

# BBC

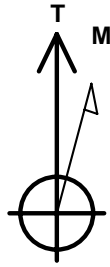
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 42B-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 42B-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 (°)	
3,968.13	3,643.00	Mesaverde		0.00		
4,977.73	4,563.00	Price Coal		0.00		
5,772.36	5,343.00	Top Gas		0.00		
7,772.67	7,343.00	Rollins		0.00		
8,072.67	7,643.00	TD		0.00		

## WELL DETAILS: CBS 42B-21-692

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1619626.420 2387502.827 30° 52' 40" N 106° 16' 36.32" W



Azimuths to True North  
 Magnetic North: 10.40°

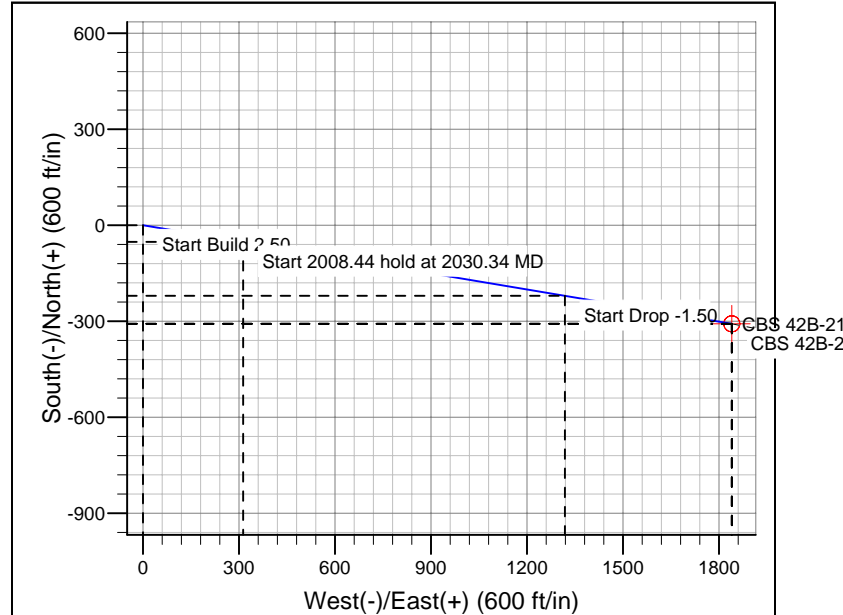
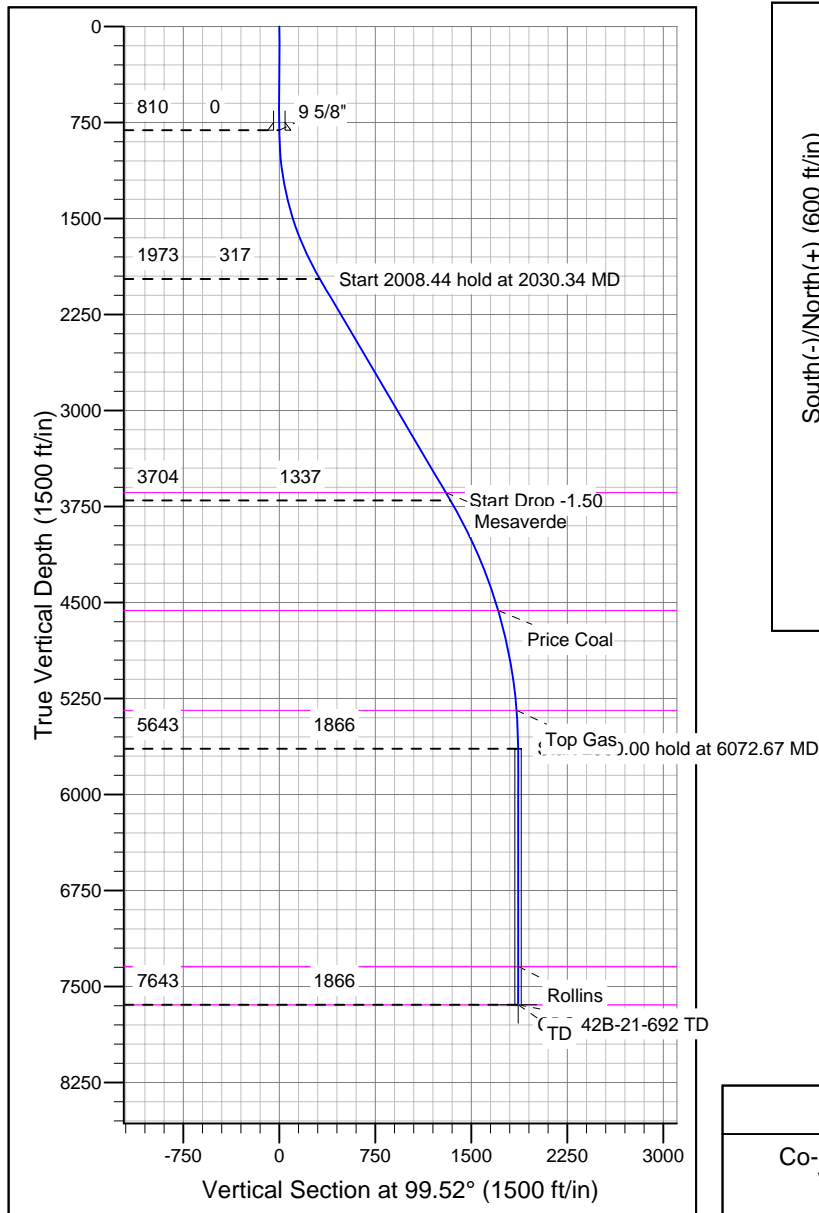
Magnetic Field  
 Strength: 52427.8snT  
 Dip Angle: 65.82°  
 Date: 6/7/2010  
 Model: BGGM2007

## 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	810.00	0.00	0.00	810.00	0.00	0.00	0.00	0.00	0.00	
3	2030.34	30.51	99.52	1973.48	-52.45	312.93	2.50	99.52	317.29	
4	4038.78	30.51	99.52	3703.86	-221.02	1318.51	0.00	0.00	336.90	
5	6072.67	0.00	0.00	5643.00	-308.44	1840.05	1.50	180.00	865.72	
6	8072.67	0.00	0.00	7643.00	-308.44	1840.05	0.00	0.00	865.72	CBS 42B-21-692 TD

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
CBS 42B-21-692 TD	-308.44	1840.05	Circle (Radius: 25.00)	



## CASING DETAILS

TVD	MD	Name	Size
810.00	810.00	9 5/8"	9-5/8

## FORMATION TOP DETAILS

TVD	MD	Formation
3643.00	3968.13	Mesaverde
4563.00	4977.73	Price Coal
5343.00	5772.36	Top Gas
7343.00	772.67	Rollins
7643.00	8072.67	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CBS 42B-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