

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Circle B Tract #5 Pad**

**CBS 32B-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 32B-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 32B-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:			Lat/Long  0.00 ft			Northing:		1,619,626.425 ft		Latitude:		39° 30' 52.412 N	
						Easting:		2,387,502.827 ft		Longitude:		107° 40' 16.3632 W	
						Slot Radius:		"		Grid Convergence:		-1.37 °	

Well		CBS 32B-21-692				
Well Position	+N/-S	4.00 ft	Northing:	1,619,630.792 ft	Latitude:	39° 30' 52.452 N
	+E/-W	-15.52 ft	Easting:	2,387,487.410 ft	Longitude:	107° 40' 16.5612 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	122.56

<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	
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,096.03	8.15	122.56	1,094.94	-12.46	19.51	2.50	2.50	0.00	122.56	
5,143.43	8.15	122.56	5,101.44	-321.25	503.19	0.00	0.00	0.00	0.00	
5,686.82	0.00	0.00	5,643.00	-342.01	535.71	1.50	-1.50	0.00	180.00	
7,686.82	0.00	0.00	7,643.00	-342.01	535.71	0.00	0.00	0.00	0.00	CBS 32B-21-692 TI

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 32B-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 32B-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
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	0.75	122.56	800.00	-0.11	0.17	0.20	2.50	2.50	0.00
900.00	3.25	122.56	899.93	-1.98	3.11	3.69	2.50	2.50	0.00
1,000.00	5.75	122.56	999.61	-6.21	9.72	11.53	2.50	2.50	0.00
1,096.03	8.15	122.56	1,094.94	-12.46	19.51	23.15	2.50	2.50	0.00
1,100.00	8.15	122.56	1,098.86	-12.76	19.99	23.71	0.00	0.00	0.00
1,200.00	8.15	122.56	1,197.85	-20.39	31.94	37.89	0.00	0.00	0.00
1,300.00	8.15	122.56	1,296.84	-28.02	43.89	52.07	0.00	0.00	0.00
1,400.00	8.15	122.56	1,395.83	-35.65	55.84	66.25	0.00	0.00	0.00
1,500.00	8.15	122.56	1,494.82	-43.28	67.79	80.43	0.00	0.00	0.00
1,600.00	8.15	122.56	1,593.81	-50.91	79.74	94.60	0.00	0.00	0.00
1,700.00	8.15	122.56	1,692.80	-58.54	91.69	108.78	0.00	0.00	0.00
1,800.00	8.15	122.56	1,791.79	-66.17	103.64	122.96	0.00	0.00	0.00
1,900.00	8.15	122.56	1,890.78	-73.80	115.59	137.14	0.00	0.00	0.00
2,000.00	8.15	122.56	1,989.77	-81.42	127.54	151.32	0.00	0.00	0.00
2,100.00	8.15	122.56	2,088.76	-89.05	139.49	165.49	0.00	0.00	0.00
2,200.00	8.15	122.56	2,187.75	-96.68	151.44	179.67	0.00	0.00	0.00
2,300.00	8.15	122.56	2,286.74	-104.31	163.39	193.85	0.00	0.00	0.00
2,400.00	8.15	122.56	2,385.73	-111.94	175.34	208.03	0.00	0.00	0.00
2,500.00	8.15	122.56	2,484.72	-119.57	187.29	222.21	0.00	0.00	0.00
2,600.00	8.15	122.56	2,583.71	-127.20	199.24	236.38	0.00	0.00	0.00
2,700.00	8.15	122.56	2,682.70	-134.83	211.19	250.56	0.00	0.00	0.00
2,800.00	8.15	122.56	2,781.69	-142.46	223.14	264.74	0.00	0.00	0.00
2,900.00	8.15	122.56	2,880.68	-150.09	235.09	278.92	0.00	0.00	0.00
3,000.00	8.15	122.56	2,979.67	-157.72	247.04	293.09	0.00	0.00	0.00
3,100.00	8.15	122.56	3,078.66	-165.35	258.99	307.27	0.00	0.00	0.00
3,200.00	8.15	122.56	3,177.65	-172.98	270.94	321.45	0.00	0.00	0.00
3,300.00	8.15	122.56	3,276.64	-180.61	282.89	335.63	0.00	0.00	0.00
3,400.00	8.15	122.56	3,375.63	-188.23	294.84	349.81	0.00	0.00	0.00
3,500.00	8.15	122.56	3,474.62	-195.86	306.79	363.98	0.00	0.00	0.00
3,600.00	8.15	122.56	3,573.61	-203.49	318.74	378.16	0.00	0.00	0.00
3,670.10	8.15	122.56	3,643.00	-208.84	327.12	388.10	0.00	0.00	0.00
Mesaverde									
3,700.00	8.15	122.56	3,672.60	-211.12	330.69	392.34	0.00	0.00	0.00
3,800.00	8.15	122.56	3,771.59	-218.75	342.64	406.52	0.00	0.00	0.00
3,900.00	8.15	122.56	3,870.58	-226.38	354.59	420.70	0.00	0.00	0.00
4,000.00	8.15	122.56	3,969.57	-234.01	366.54	434.87	0.00	0.00	0.00
4,100.00	8.15	122.56	4,068.56	-241.64	378.49	449.05	0.00	0.00	0.00
4,200.00	8.15	122.56	4,167.55	-249.27	390.44	463.23	0.00	0.00	0.00
4,300.00	8.15	122.56	4,266.54	-256.90	402.39	477.41	0.00	0.00	0.00
4,400.00	8.15	122.56	4,365.53	-264.53	414.35	491.59	0.00	0.00	0.00
4,500.00	8.15	122.56	4,464.52	-272.16	426.30	505.76	0.00	0.00	0.00
4,599.49	8.15	122.56	4,563.00	-279.75	438.18	519.87	0.00	0.00	0.00
Price Coal									

# 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 32B-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)
4,600.00	8.15	122.56	4,563.51	-279.79	438.25	519.94	0.00	0.00	0.00
4,700.00	8.15	122.56	4,662.50	-287.42	450.20	534.12	0.00	0.00	0.00
4,800.00	8.15	122.56	4,761.48	-295.04	462.15	548.30	0.00	0.00	0.00
4,900.00	8.15	122.56	4,860.47	-302.67	474.10	562.48	0.00	0.00	0.00
5,000.00	8.15	122.56	4,959.46	-310.30	486.05	576.65	0.00	0.00	0.00
5,100.00	8.15	122.56	5,058.45	-317.93	498.00	590.83	0.00	0.00	0.00
5,143.43	8.15	122.56	5,101.44	-321.25	503.19	596.99	0.00	0.00	0.00
5,200.00	7.30	122.56	5,157.50	-325.34	509.60	604.59	1.50	-1.50	0.00
5,300.00	5.80	122.56	5,256.85	-331.48	519.21	616.00	1.50	-1.50	0.00
5,386.51	4.50	122.56	5,343.00	-335.66	525.76	623.78	1.50	-1.50	0.00
Top Gas									
5,400.00	4.30	122.56	5,356.45	-336.22	526.64	624.81	1.50	-1.50	0.00
5,500.00	2.80	122.56	5,456.26	-339.55	531.86	631.01	1.50	-1.50	0.00
5,600.00	1.30	122.56	5,556.19	-341.48	534.88	634.59	1.50	-1.50	0.00
5,686.82	0.00	0.00	5,643.00	-342.01	535.71	635.57	1.50	-1.50	0.00
5,700.00	0.00	0.00	5,656.18	-342.01	535.71	635.57	0.00	0.00	0.00
5,800.00	0.00	0.00	5,756.18	-342.01	535.71	635.57	0.00	0.00	0.00
5,900.00	0.00	0.00	5,856.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,000.00	0.00	0.00	5,956.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,100.00	0.00	0.00	6,056.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,200.00	0.00	0.00	6,156.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,300.00	0.00	0.00	6,256.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,400.00	0.00	0.00	6,356.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,500.00	0.00	0.00	6,456.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,600.00	0.00	0.00	6,556.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,700.00	0.00	0.00	6,656.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,800.00	0.00	0.00	6,756.18	-342.01	535.71	635.57	0.00	0.00	0.00
6,900.00	0.00	0.00	6,856.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,000.00	0.00	0.00	6,956.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,100.00	0.00	0.00	7,056.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,200.00	0.00	0.00	7,156.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,300.00	0.00	0.00	7,256.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,386.82	0.00	0.00	7,343.00	-342.01	535.71	635.57	0.00	0.00	0.00
Rollins									
7,400.00	0.00	0.00	7,356.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,500.00	0.00	0.00	7,456.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,600.00	0.00	0.00	7,556.18	-342.01	535.71	635.57	0.00	0.00	0.00
7,686.82	0.00	0.00	7,643.00	-342.01	535.71	635.57	0.00	0.00	0.00
TD									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
770.00	770.00	9 5/8"	9-5/8	12-1/4

# BBC

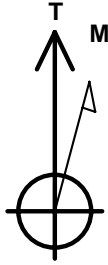
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well CBS 32B-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 32B-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 (°)	
3,670.10	3,643.00	Mesaverde		0.00		
4,599.49	4,563.00	Price Coal		0.00		
5,386.51	5,343.00	Top Gas		0.00		
7,386.82	7,343.00	Rollins		0.00		
7,686.82	7,643.00	TD		0.00		

## WELL DETAILS: CBS 32B-21-692

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1619630.792 2387487.499 30° 52' 46.2" N 106° 16' 56.12" W



Azimuths to True North  
 Magnetic North: 10.40°

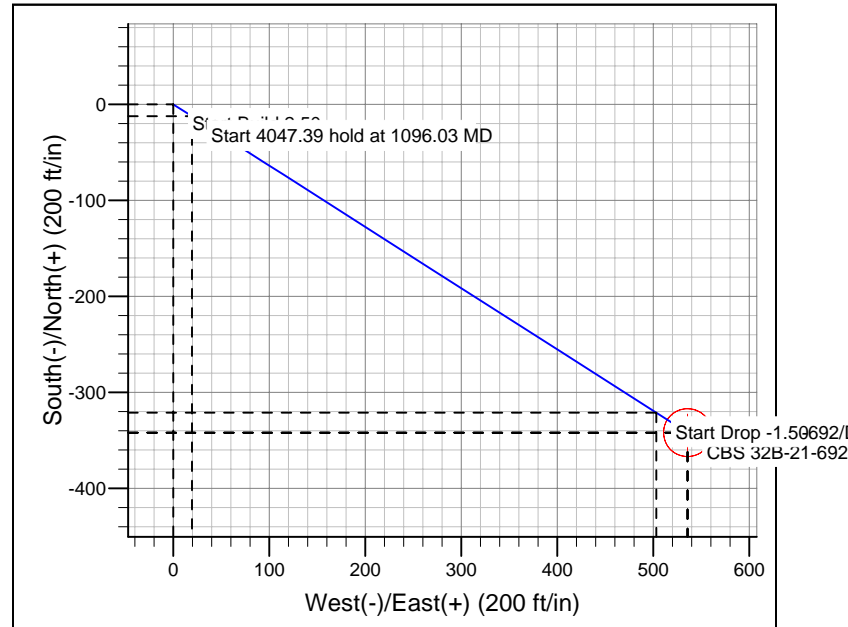
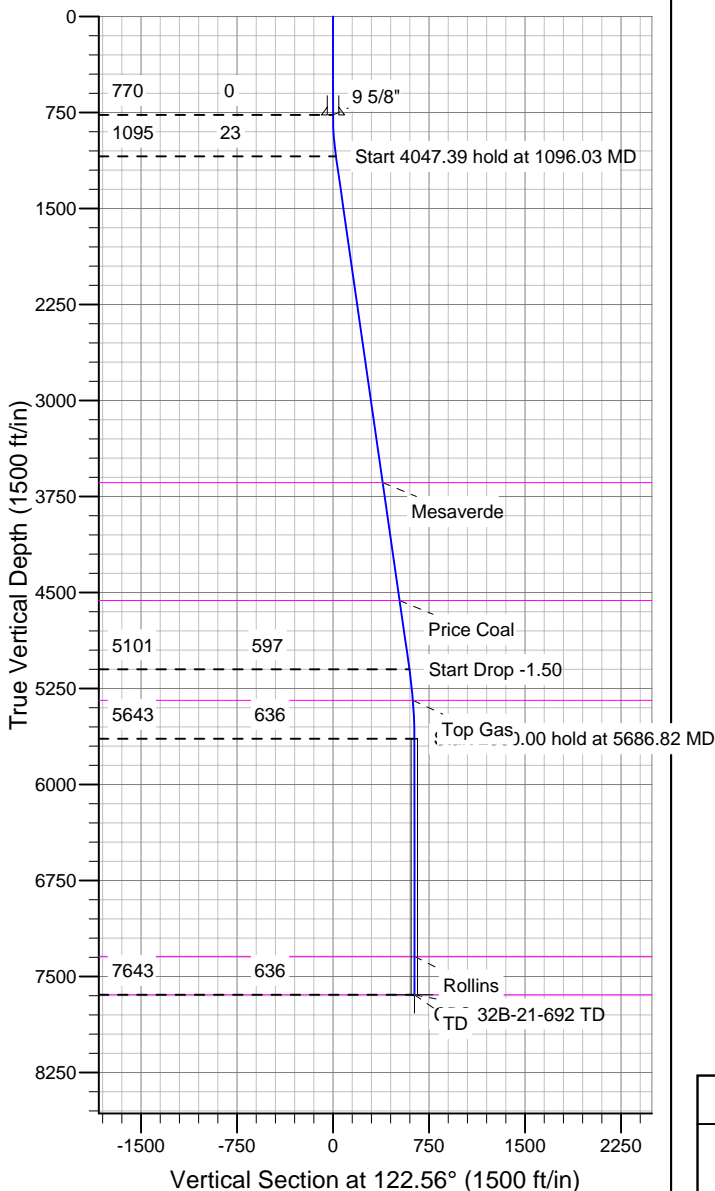
Magnetic Field  
 Strength: 52427.8snT  
 Dip Angle: 65.82°  
 Date: 6/7/2010  
 Model: BGGM2007

## 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	770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	
3	1096.03	8.15	122.56	1094.94	-12.46	19.51	2.50	122.56	23.15	
4	5143.43	8.15	122.56	5101.44	-321.25	503.19	0.00	0.00	596.99	
5	5686.82	0.00	0.00	5643.00	-342.01	535.71	1.50	180.00	635.57	
6	7686.82	0.00	0.00	7643.00	-342.01	535.71	0.00	0.00	635.57	CBS 32B-21-692 TD

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
CBS 32B-21-692 TD	7643.00	-342.01	535.71	Circle (Radius: 25.00)



## CASING DETAILS

TVD	MD	Name	Size
770.00	770.00	9 5/8"	9-5/8"

## FORMATION TOP DETAILS

TVD	MD	Formation
3643.00	3670.10	Mesaverde
4563.00	4599.49	Price Coal
5343.00	5386.51	Top Gas
7343.00	7386.82	Rollins
7643.00	7686.82	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CBS 32B-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