

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Robinson SESE-26-692**

**Robinson 43B-26-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**27 October, 2011**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Robinson 43B-26-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5970.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5970.00ft (Original Well Elev)
<b>Site:</b>	Robinson SESE-26-692	<b>North Reference:</b>	True
<b>Well:</b>	Robinson 43B-26-692	<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>	Robinson SESE-26-692		
<b>Site Position:</b>		<b>Northing:</b>	1,611,273.766 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,400,075.613 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 29' 32.820 N
		<b>Longitude:</b>	107° 37' 33.4812 W
		<b>Grid Convergence:</b>	-1.34 °

<b>Well</b>	Robinson 43B-26-692		
<b>Well Position</b>	<b>+N/-S</b>	-95.44 ft	<b>Northing:</b>
	<b>+E/-W</b>	-43.74 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 29' 31.877 N
			<b>Longitude:</b>
			107° 37' 34.0392 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	7/22/2009	10.43	65.86	52,490

<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	349.27

<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	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,653.66	22.59	349.27	1,630.42	172.78	-32.73	2.50	2.50	0.00	349.27	
4,103.87	22.59	349.27	3,892.63	1,097.61	-207.90	0.00	0.00	0.00	0.00	
5,609.97	0.00	0.00	5,360.00	1,385.58	-262.45	1.50	-1.50	0.00	180.00	
7,609.97	0.00	0.00	7,360.00	1,385.58	-262.45	0.00	0.00	0.00	0.00	Robinson 43B-26-6

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Robinson 43B-26-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5970.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5970.00ft (Original Well Elev)
<b>Site:</b>	Robinson SESE-26-692	<b>North Reference:</b>	True
<b>Well:</b>	Robinson 43B-26-692	<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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	1.25	349.27	800.00	0.54	-0.10	0.55	2.50	2.50	0.00
900.00	3.75	349.27	899.89	4.82	-0.91	4.91	2.50	2.50	0.00
1,000.00	6.25	349.27	999.50	13.38	-2.54	13.62	2.50	2.50	0.00
1,100.00	8.75	349.27	1,098.64	26.21	-4.96	26.67	2.50	2.50	0.00
1,200.00	11.25	349.27	1,197.11	43.27	-8.20	44.04	2.50	2.50	0.00
1,300.00	13.75	349.27	1,294.74	64.53	-12.22	65.68	2.50	2.50	0.00
1,400.00	16.25	349.27	1,391.32	89.96	-17.04	91.56	2.50	2.50	0.00
1,500.00	18.75	349.27	1,486.69	119.50	-22.64	121.63	2.50	2.50	0.00
1,600.00	21.25	349.27	1,580.65	153.10	-29.00	155.83	2.50	2.50	0.00
1,653.66	22.59	349.27	1,630.42	172.78	-32.73	175.86	2.50	2.50	0.00
1,700.00	22.59	349.27	1,673.21	190.28	-36.04	193.66	0.00	0.00	0.00
1,800.00	22.59	349.27	1,765.54	228.02	-43.19	232.08	0.00	0.00	0.00
1,900.00	22.59	349.27	1,857.86	265.77	-50.34	270.49	0.00	0.00	0.00
2,000.00	22.59	349.27	1,950.19	303.51	-57.49	308.91	0.00	0.00	0.00
2,100.00	22.59	349.27	2,042.52	341.25	-64.64	347.32	0.00	0.00	0.00
2,200.00	22.59	349.27	2,134.84	379.00	-71.79	385.74	0.00	0.00	0.00
2,300.00	22.59	349.27	2,227.17	416.74	-78.94	424.15	0.00	0.00	0.00
2,400.00	22.59	349.27	2,319.50	454.49	-86.09	462.57	0.00	0.00	0.00
2,500.00	22.59	349.27	2,411.83	492.23	-93.24	500.98	0.00	0.00	0.00
2,600.00	22.59	349.27	2,504.15	529.98	-100.38	539.40	0.00	0.00	0.00
2,700.00	22.59	349.27	2,596.48	567.72	-107.53	577.82	0.00	0.00	0.00
2,800.00	22.59	349.27	2,688.81	605.47	-114.68	616.23	0.00	0.00	0.00
2,900.00	22.59	349.27	2,781.13	643.21	-121.83	654.65	0.00	0.00	0.00
3,000.00	22.59	349.27	2,873.46	680.96	-128.98	693.06	0.00	0.00	0.00
3,100.00	22.59	349.27	2,965.79	718.70	-136.13	731.48	0.00	0.00	0.00
3,200.00	22.59	349.27	3,058.11	756.44	-143.28	769.89	0.00	0.00	0.00
3,300.00	22.59	349.27	3,150.44	794.19	-150.43	808.31	0.00	0.00	0.00
3,400.00	22.59	349.27	3,242.77	831.93	-157.58	846.73	0.00	0.00	0.00
3,500.00	22.59	349.27	3,335.09	869.68	-164.73	885.14	0.00	0.00	0.00
3,600.00	22.59	349.27	3,427.42	907.42	-171.88	923.56	0.00	0.00	0.00
3,700.00	22.59	349.27	3,519.75	945.17	-179.03	961.97	0.00	0.00	0.00
3,800.00	22.59	349.27	3,612.07	982.91	-186.18	1,000.39	0.00	0.00	0.00
3,900.00	22.59	349.27	3,704.40	1,020.66	-193.33	1,038.80	0.00	0.00	0.00
4,000.00	22.59	349.27	3,796.73	1,058.40	-200.47	1,077.22	0.00	0.00	0.00
4,100.00	22.59	349.27	3,889.05	1,096.14	-207.62	1,115.63	0.00	0.00	0.00
4,103.87	22.59	349.27	3,892.63	1,097.61	-207.90	1,117.12	0.00	0.00	0.00
4,200.00	21.15	349.27	3,981.84	1,132.79	-214.56	1,152.93	1.50	-1.50	0.00
4,300.00	19.65	349.27	4,075.56	1,167.03	-221.05	1,187.78	1.50	-1.50	0.00
4,400.00	18.15	349.27	4,170.17	1,198.86	-227.08	1,220.17	1.50	-1.50	0.00
4,500.00	16.65	349.27	4,265.59	1,228.24	-232.64	1,250.08	1.50	-1.50	0.00
4,600.00	15.15	349.27	4,361.76	1,255.15	-237.74	1,277.47	1.50	-1.50	0.00
4,700.00	13.65	349.27	4,458.62	1,279.59	-242.37	1,302.34	1.50	-1.50	0.00
4,800.00	12.15	349.27	4,556.09	1,301.52	-246.52	1,324.66	1.50	-1.50	0.00
4,900.00	10.65	349.27	4,654.12	1,320.94	-250.20	1,344.43	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 @ 5970.00ft (Original Well Elev)
<b>Site:</b>	Robinson SESE-26-692	<b>North Reference:</b>	True
<b>Well:</b>	Robinson 43B-26-692	<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	9.15	349.27	4,752.62	1,337.83	-253.40	1,361.62	1.50	-1.50	0.00	
5,100.00	7.65	349.27	4,851.55	1,352.18	-256.12	1,376.22	1.50	-1.50	0.00	
5,200.00	6.15	349.27	4,950.82	1,363.98	-258.36	1,388.24	1.50	-1.50	0.00	
5,300.00	4.65	349.27	5,050.37	1,373.23	-260.11	1,397.65	1.50	-1.50	0.00	
5,400.00	3.15	349.27	5,150.14	1,379.91	-261.37	1,404.45	1.50	-1.50	0.00	
5,500.00	1.65	349.27	5,250.05	1,384.02	-262.15	1,408.63	1.50	-1.50	0.00	
5,600.00	0.15	349.27	5,350.03	1,385.57	-262.44	1,410.20	1.50	-1.50	0.00	
5,609.97	0.00	0.00	5,360.00	1,385.58	-262.45	1,410.22	1.50	-1.50	0.00	
5,700.00	0.00	0.00	5,450.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,550.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,650.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,750.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,850.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,950.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,050.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,150.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,250.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,350.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,450.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,550.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,650.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,750.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,850.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,950.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,050.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,150.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,250.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,350.03	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	
7,609.97	0.00	0.00	7,360.00	1,385.58	-262.45	1,410.22	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
750.00	750.00	9 5/8"	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,575.72	3,405.00	Mesaverde		0.00		
4,525.45	4,290.00	Price Coal		0.00		
5,219.28	4,970.00	Top Gas		0.00		
7,309.97	7,060.00	Rollins		0.00		
7,609.97	7,360.00	TD		0.00		

# WELL DETAILS: Robinson 43B-26-692

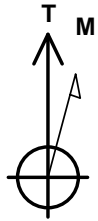
			Ground Level:	0.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1611179.377	2400029.648	39° 29' 31.877 N 107° 37' 34.0392 W		

## 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	750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
3	1653.66	22.59	349.27	1630.42	172.78	-32.73	2.50	349.27	175.86	
4	4103.87	22.59	349.27	3892.63	1097.61	-207.90	0.00	0.00	1117.12	
5	5609.97	0.00	0.00	5360.00	1385.58	-262.45	1.50	180.00	1410.22	
6	7609.97	0.00	0.00	7360.00	1385.58	-262.45	0.00	0.00	1410.22	Robinson 43B-26-692

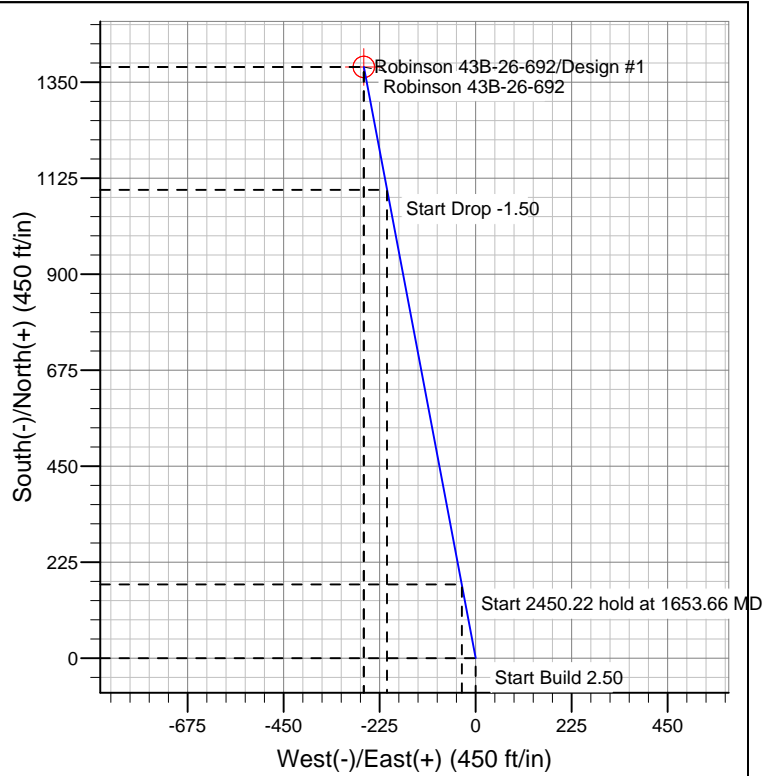
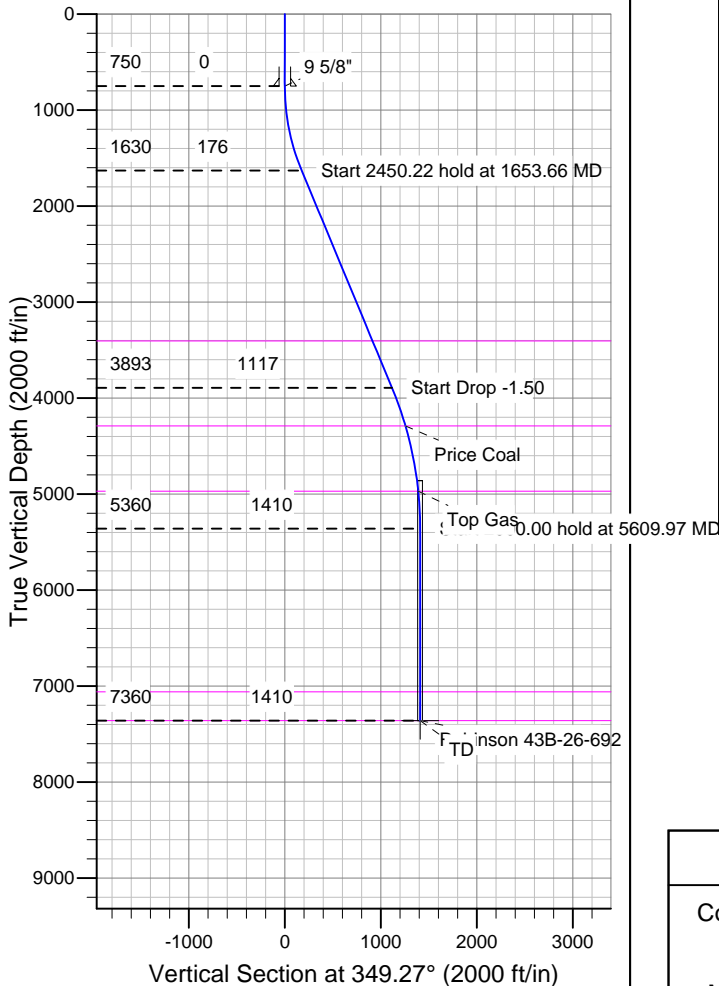
## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Robinson 43B-26-692	7360.00	1385.58	-262.45	Circle (Radius: 25.00)



Azimuths to True North  
Magnetic North: 10.43°

Magnetic Field  
Strength: 52489.9snT  
Dip Angle: 65.86°  
Date: 7/22/2009  
Model: IGRF2010



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3405.00	3575.72	Mesaverde
4290.00	4525.45	Price Coal
4970.00	5219.28	Top Gas
7060.00	7309.97	Rollins
7360.00	7609.97	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Robinson 43B-26-692, True North  
Vertical (TVD) Reference: WELL @ 5970.00ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: WELL @ 5970.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature