

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**MDP #26**

**Federal 14C-34-691**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**18 November, 2010**

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Federal 14C-34-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 6748.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6748.00ft (Original Well Elev)
<b>Site:</b>	MDP #26	<b>North Reference:</b>	True
<b>Well:</b>	Federal 14C-34-691	<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>	MDP #26		
<b>Site Position:</b>		<b>Northing:</b>	1,605,944.154 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,420,639.729 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 28' 44.832 N
		<b>Longitude:</b>	107° 33' 9.6912 W
		<b>Grid Convergence:</b>	-1.29 °

<b>Well</b>	Federal 14C-34-691		
<b>Well Position</b>	<b>+N/-S</b>	-0.01 ft	<b>Northing:</b> 1,605,944.145 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,420,639.728 ft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b> ft
			<b>Latitude:</b> 39° 28' 44.832 N
			<b>Longitude:</b> 107° 33' 9.6912 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	10/25/2010	10.30	65.80	52,327

<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	81.40

<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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,697.05	22.43	81.40	1,674.32	25.92	171.38	2.50	2.50	0.00	81.40	
4,720.16	22.43	81.40	4,468.80	198.36	1,311.71	0.00	0.00	0.00	0.00	
6,215.25	0.00	0.00	5,926.00	241.55	1,597.34	1.50	-1.50	0.00	180.00	
8,215.25	0.00	0.00	7,926.00	241.55	1,597.34	0.00	0.00	0.00	0.00	Federal 14C-34-69'

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Federal 14C-34-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 6748.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6748.00ft (Original Well Elev)
<b>Site:</b>	MDP #26	<b>North Reference:</b>	True
<b>Well:</b>	Federal 14C-34-691	<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
900.00	2.50	81.40	899.97	0.33	2.16	2.18	2.50	2.50	0.00
1,000.00	5.00	81.40	999.75	1.30	8.62	8.72	2.50	2.50	0.00
1,100.00	7.50	81.40	1,099.14	2.93	19.39	19.61	2.50	2.50	0.00
1,200.00	10.00	81.40	1,197.97	5.21	34.43	34.82	2.50	2.50	0.00
1,300.00	12.50	81.40	1,296.04	8.12	53.71	54.33	2.50	2.50	0.00
1,400.00	15.00	81.40	1,393.17	11.68	77.21	78.09	2.50	2.50	0.00
1,500.00	17.50	81.40	1,489.17	15.86	104.88	106.07	2.50	2.50	0.00
1,600.00	20.00	81.40	1,583.85	20.67	136.66	138.21	2.50	2.50	0.00
1,697.05	22.43	81.40	1,674.32	25.92	171.38	173.33	2.50	2.50	0.00
1,700.00	22.43	81.40	1,677.05	26.08	172.49	174.45	0.00	0.00	0.00
1,800.00	22.43	81.40	1,769.48	31.79	210.21	212.60	0.00	0.00	0.00
1,900.00	22.43	81.40	1,861.92	37.49	247.93	250.75	0.00	0.00	0.00
2,000.00	22.43	81.40	1,954.36	43.20	285.65	288.90	0.00	0.00	0.00
2,100.00	22.43	81.40	2,046.80	48.90	323.37	327.05	0.00	0.00	0.00
2,200.00	22.43	81.40	2,139.23	54.60	361.09	365.20	0.00	0.00	0.00
2,300.00	22.43	81.40	2,231.67	60.31	398.81	403.35	0.00	0.00	0.00
2,400.00	22.43	81.40	2,324.11	66.01	436.54	441.50	0.00	0.00	0.00
2,500.00	22.43	81.40	2,416.54	71.72	474.26	479.65	0.00	0.00	0.00
2,600.00	22.43	81.40	2,508.98	77.42	511.98	517.80	0.00	0.00	0.00
2,700.00	22.43	81.40	2,601.42	83.12	549.70	555.95	0.00	0.00	0.00
2,800.00	22.43	81.40	2,693.86	88.83	587.42	594.10	0.00	0.00	0.00
2,900.00	22.43	81.40	2,786.29	94.53	625.14	632.24	0.00	0.00	0.00
3,000.00	22.43	81.40	2,878.73	100.24	662.86	670.39	0.00	0.00	0.00
3,100.00	22.43	81.40	2,971.17	105.94	700.58	708.54	0.00	0.00	0.00
3,200.00	22.43	81.40	3,063.60	111.64	738.30	746.69	0.00	0.00	0.00
3,300.00	22.43	81.40	3,156.04	117.35	776.02	784.84	0.00	0.00	0.00
3,400.00	22.43	81.40	3,248.48	123.05	813.74	822.99	0.00	0.00	0.00
3,500.00	22.43	81.40	3,340.92	128.76	851.46	861.14	0.00	0.00	0.00
3,600.00	22.43	81.40	3,433.35	134.46	889.18	899.29	0.00	0.00	0.00
3,700.00	22.43	81.40	3,525.79	140.17	926.90	937.44	0.00	0.00	0.00
3,800.00	22.43	81.40	3,618.23	145.87	964.62	975.59	0.00	0.00	0.00
3,900.00	22.43	81.40	3,710.66	151.57	1,002.34	1,013.74	0.00	0.00	0.00
3,927.41	22.43	81.40	3,736.00	153.14	1,012.68	1,024.19	0.00	0.00	0.00
<b>Mesaverde</b>									
4,000.00	22.43	81.40	3,803.10	157.28	1,040.06	1,051.89	0.00	0.00	0.00
4,100.00	22.43	81.40	3,895.54	162.98	1,077.78	1,090.04	0.00	0.00	0.00
4,200.00	22.43	81.40	3,987.98	168.69	1,115.50	1,128.19	0.00	0.00	0.00
4,300.00	22.43	81.40	4,080.41	174.39	1,153.22	1,166.33	0.00	0.00	0.00
4,400.00	22.43	81.40	4,172.85	180.09	1,190.94	1,204.48	0.00	0.00	0.00
4,500.00	22.43	81.40	4,265.29	185.80	1,228.66	1,242.63	0.00	0.00	0.00
4,600.00	22.43	81.40	4,357.72	191.50	1,266.39	1,280.78	0.00	0.00	0.00
4,700.00	22.43	81.40	4,450.16	197.21	1,304.11	1,318.93	0.00	0.00	0.00
4,720.16	22.43	81.40	4,468.80	198.36	1,311.71	1,326.62	0.00	0.00	0.00
4,800.00	21.23	81.40	4,542.91	202.79	1,341.06	1,356.31	1.50	-1.50	0.00

# BBC

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<b>Site:</b>	MDP #26	<b>North Reference:</b>	True
<b>Well:</b>	Federal 14C-34-691	<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)
4,900.00	19.73	81.40	4,636.59	208.02	1,375.65	1,391.29	1.50	-1.50	0.00
4,984.04	18.47	81.40	4,716.00	212.14	1,402.84	1,418.79	1.50	-1.50	0.00
<b>Price Coal</b>									
5,000.00	18.23	81.40	4,731.15	212.89	1,407.81	1,423.81	1.50	-1.50	0.00
5,100.00	16.73	81.40	4,826.53	217.38	1,437.50	1,453.85	1.50	-1.50	0.00
5,200.00	15.23	81.40	4,922.66	221.49	1,464.72	1,481.37	1.50	-1.50	0.00
5,300.00	13.73	81.40	5,019.49	225.23	1,489.44	1,506.38	1.50	-1.50	0.00
5,400.00	12.23	81.40	5,116.93	228.59	1,511.65	1,528.83	1.50	-1.50	0.00
5,500.00	10.73	81.40	5,214.93	231.57	1,531.32	1,548.73	1.50	-1.50	0.00
5,501.09	10.71	81.40	5,216.00	231.60	1,531.53	1,548.94	1.50	-1.50	0.00
<b>Top Gas</b>									
5,600.00	9.23	81.40	5,313.41	234.16	1,548.46	1,566.06	1.50	-1.50	0.00
5,700.00	7.73	81.40	5,412.31	236.36	1,563.04	1,580.81	1.50	-1.50	0.00
5,800.00	6.23	81.40	5,511.57	238.18	1,575.05	1,592.96	1.50	-1.50	0.00
5,900.00	4.73	81.40	5,611.11	239.60	1,584.49	1,602.50	1.50	-1.50	0.00
6,000.00	3.23	81.40	5,710.87	240.64	1,591.35	1,609.44	1.50	-1.50	0.00
6,100.00	1.73	81.40	5,810.77	241.29	1,595.62	1,613.77	1.50	-1.50	0.00
6,200.00	0.23	81.40	5,910.75	241.54	1,597.31	1,615.47	1.50	-1.50	0.00
6,215.25	0.00	0.00	5,926.00	241.55	1,597.34	1,615.50	1.50	-1.50	0.00
6,300.00	0.00	0.00	6,010.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
6,400.00	0.00	0.00	6,110.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
6,500.00	0.00	0.00	6,210.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
6,600.00	0.00	0.00	6,310.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
6,700.00	0.00	0.00	6,410.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
6,800.00	0.00	0.00	6,510.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
6,900.00	0.00	0.00	6,610.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,000.00	0.00	0.00	6,710.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,100.00	0.00	0.00	6,810.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,200.00	0.00	0.00	6,910.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,300.00	0.00	0.00	7,010.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,400.00	0.00	0.00	7,110.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,500.00	0.00	0.00	7,210.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,600.00	0.00	0.00	7,310.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,700.00	0.00	0.00	7,410.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,800.00	0.00	0.00	7,510.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,900.00	0.00	0.00	7,610.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
7,915.25	0.00	0.00	7,626.00	241.55	1,597.34	1,615.50	0.00	0.00	0.00
<b>Rollins</b>									
8,000.00	0.00	0.00	7,710.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
8,100.00	0.00	0.00	7,810.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
8,200.00	0.00	0.00	7,910.75	241.55	1,597.34	1,615.50	0.00	0.00	0.00
8,215.25	0.00	0.00	7,926.00	241.55	1,597.34	1,615.50	0.00	0.00	0.00
<b>TD</b>									

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

# BBC

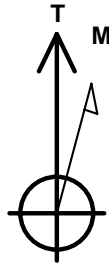
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Federal 14C-34-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 6748.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6748.00ft (Original Well Elev)
<b>Site:</b>	MDP #26	<b>North Reference:</b>	True
<b>Well:</b>	Federal 14C-34-691	<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 (°)	
3,927.41	3,736.00	Mesaverde		0.00		
4,984.04	4,716.00	Price Coal		0.00		
5,501.09	5,216.00	Top Gas		0.00		
7,915.25	7,626.00	Rollins		0.00		
8,215.25	7,926.00	TD		0.00		

## WELL DETAILS: Federal 14C-34-691

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.001605944.1452420639.79828' 44.832'N33' 9.6912 W



Azimuths to True North  
 Magnetic North: 10.30°

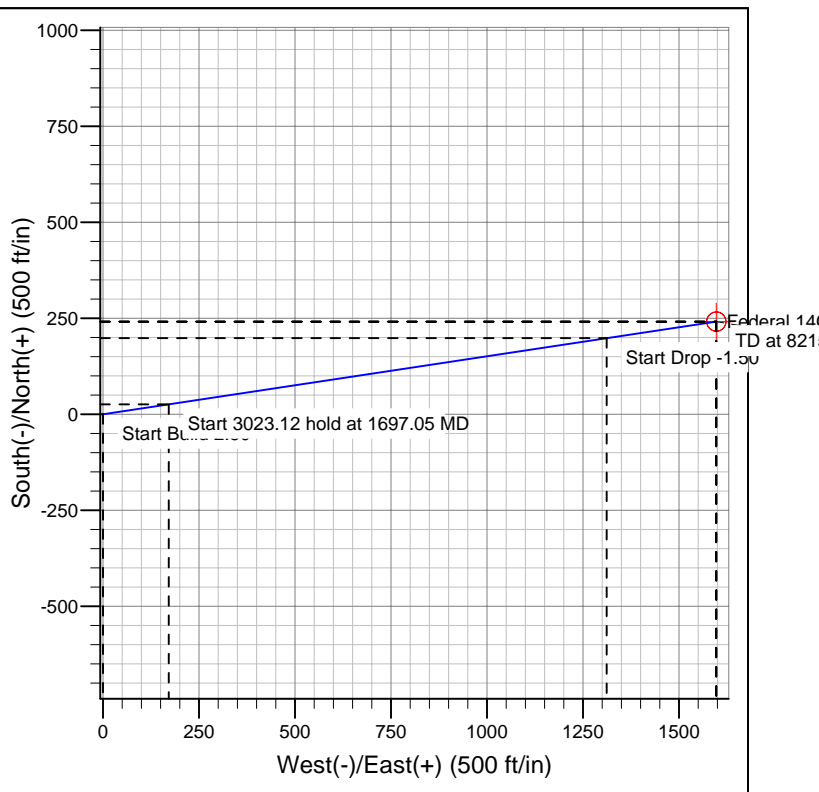
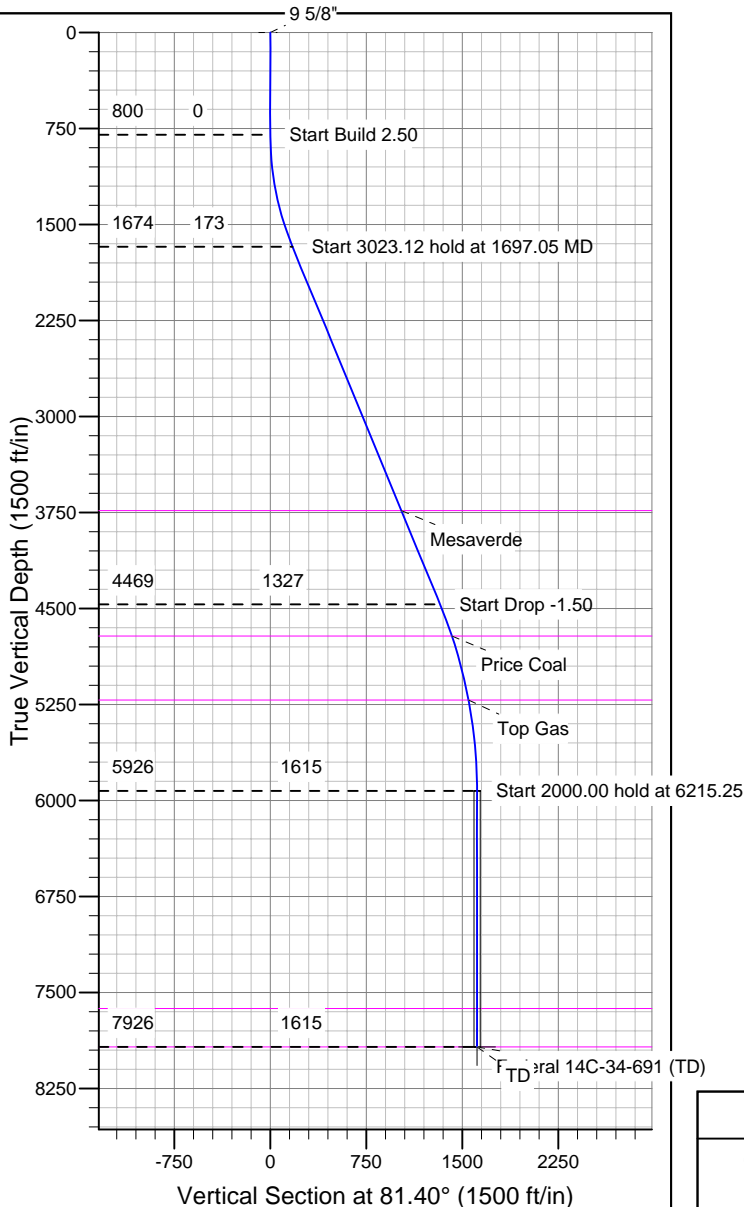
Magnetic Field  
 Strength: 52327.3snT  
 Dip Angle: 65.80°  
 Date: 10/25/2010  
 Model: BGGM2007

## 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	0.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1697.05	22.43	81.40	1674.32	25.92	171.38	2.50	81.40	173.33	
4	4720.16	22.43	81.40	4468.80	198.36	1311.71	0.00	0.00	326.62	
5	6215.25	0.00	0.00	5926.00	241.55	1597.34	1.50	180.00	1615.50	
6	8215.25	0.00	0.00	7926.00	241.55	1597.34	0.00	0.00	1615.50	Federal 14C-34-691 (TD)

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Federal 14C-34-691 (TD)	7926.00	241.55	1597.34	Circle (Radius: 25.00)



## FORMATION TOP DETAILS

TVD	MD	Formation
3736.00	927.41	Mesaverde
4716.00	984.04	Price Coal
5216.00	501.09	Top Gas
7626.00	915.25	Rollins
7926.00	215.25	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Federal 14C-34-691, True North  
 Vertical (TVD) Reference: WELL @ 6748.00ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 6748.00ft (Original Well Elev)  
 Calculation Method: Minimum Curvature