

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #26

Federal 43D-33-691

Wellbore #1

Plan: Design #1

Standard Planning Report

18 November, 2010

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Federal 43D-33-691
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 6748.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 6748.00ft (Original Well Elev)
Site:	MDP #26	North Reference:	True
Well:	Federal 43D-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	GARFIELD COUNTY, COLORADO NAD 1983		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	MDP #26		
Site Position:		Northing:	1,605,944.154 ft
From:	Lat/Long	Easting:	2,420,639.729 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	39° 28' 44.832 N
		Longitude:	107° 33' 9.6912 W
		Grid Convergence:	-1.29 °

Well	Federal 43D-33-691		
Well Position	+N/-S	89.23 ft	Northing:
	+E/-W	-210.01 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 28' 45.714 N
			Longitude:
			107° 33' 12.3696 W
			Ground Level:
			0.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	10/25/2010	10.30	65.80	52,327

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	14.33

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
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	
1,676.94	21.92	14.33	1,655.70	160.58	41.01	2.50	2.50	0.00	14.33	
5,512.45	21.92	14.33	5,213.83	1,548.10	395.38	0.00	0.00	0.00	0.00	
6,974.02	0.00	0.00	6,640.00	1,815.74	463.73	1.50	-1.50	0.00	180.00	
8,974.02	0.00	0.00	8,640.00	1,815.74	463.73	0.00	0.00	0.00	0.00	Federal 43D-33-691

BBC

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Site:	MDP #26	North Reference:	True
Well:	Federal 43D-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	14.33	899.97	2.11	0.54	2.18	2.50	2.50	0.00
1,000.00	5.00	14.33	999.75	8.45	2.16	8.72	2.50	2.50	0.00
1,100.00	7.50	14.33	1,099.14	19.00	4.85	19.61	2.50	2.50	0.00
1,200.00	10.00	14.33	1,197.97	33.74	8.62	34.82	2.50	2.50	0.00
1,300.00	12.50	14.33	1,296.04	52.64	13.44	54.33	2.50	2.50	0.00
1,400.00	15.00	14.33	1,393.17	75.66	19.32	78.09	2.50	2.50	0.00
1,500.00	17.50	14.33	1,489.17	102.77	26.25	106.07	2.50	2.50	0.00
1,600.00	20.00	14.33	1,583.85	133.92	34.20	138.21	2.50	2.50	0.00
1,676.94	21.92	14.33	1,655.70	160.58	41.01	165.74	2.50	2.50	0.00
1,700.00	21.92	14.33	1,677.09	168.93	43.14	174.35	0.00	0.00	0.00
1,800.00	21.92	14.33	1,769.86	205.10	52.38	211.68	0.00	0.00	0.00
1,900.00	21.92	14.33	1,862.63	241.28	61.62	249.02	0.00	0.00	0.00
2,000.00	21.92	14.33	1,955.39	277.45	70.86	286.36	0.00	0.00	0.00
2,100.00	21.92	14.33	2,048.16	313.63	80.10	323.69	0.00	0.00	0.00
2,200.00	21.92	14.33	2,140.93	349.80	89.34	361.03	0.00	0.00	0.00
2,300.00	21.92	14.33	2,233.70	385.98	98.58	398.37	0.00	0.00	0.00
2,400.00	21.92	14.33	2,326.47	422.15	107.82	435.71	0.00	0.00	0.00
2,500.00	21.92	14.33	2,419.24	458.33	117.06	473.04	0.00	0.00	0.00
2,600.00	21.92	14.33	2,512.00	494.51	126.29	510.38	0.00	0.00	0.00
2,700.00	21.92	14.33	2,604.77	530.68	135.53	547.72	0.00	0.00	0.00
2,800.00	21.92	14.33	2,697.54	566.86	144.77	585.05	0.00	0.00	0.00
2,900.00	21.92	14.33	2,790.31	603.03	154.01	622.39	0.00	0.00	0.00
3,000.00	21.92	14.33	2,883.08	639.21	163.25	659.73	0.00	0.00	0.00
3,100.00	21.92	14.33	2,975.85	675.38	172.49	697.06	0.00	0.00	0.00
3,200.00	21.92	14.33	3,068.61	711.56	181.73	734.40	0.00	0.00	0.00
3,300.00	21.92	14.33	3,161.38	747.74	190.97	771.74	0.00	0.00	0.00
3,400.00	21.92	14.33	3,254.15	783.91	200.21	809.07	0.00	0.00	0.00
3,500.00	21.92	14.33	3,346.92	820.09	209.45	846.41	0.00	0.00	0.00
3,600.00	21.92	14.33	3,439.69	856.26	218.69	883.75	0.00	0.00	0.00
3,700.00	21.92	14.33	3,532.46	892.44	227.92	921.08	0.00	0.00	0.00
3,800.00	21.92	14.33	3,625.22	928.61	237.16	958.42	0.00	0.00	0.00
3,900.00	21.92	14.33	3,717.99	964.79	246.40	995.76	0.00	0.00	0.00
3,962.53	21.92	14.33	3,776.00	987.41	252.18	1,019.10	0.00	0.00	0.00
Mesaverde									
4,000.00	21.92	14.33	3,810.76	1,000.97	255.64	1,033.09	0.00	0.00	0.00
4,100.00	21.92	14.33	3,903.53	1,037.14	264.88	1,070.43	0.00	0.00	0.00
4,200.00	21.92	14.33	3,996.30	1,073.32	274.12	1,107.77	0.00	0.00	0.00
4,300.00	21.92	14.33	4,089.07	1,109.49	283.36	1,145.11	0.00	0.00	0.00
4,400.00	21.92	14.33	4,181.83	1,145.67	292.60	1,182.44	0.00	0.00	0.00
4,500.00	21.92	14.33	4,274.60	1,181.84	301.84	1,219.78	0.00	0.00	0.00
4,600.00	21.92	14.33	4,367.37	1,218.02	311.08	1,257.12	0.00	0.00	0.00
4,700.00	21.92	14.33	4,460.14	1,254.20	320.32	1,294.45	0.00	0.00	0.00
4,800.00	21.92	14.33	4,552.91	1,290.37	329.56	1,331.79	0.00	0.00	0.00
4,900.00	21.92	14.33	4,645.68	1,326.55	338.79	1,369.13	0.00	0.00	0.00

BBC

Planning Report

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Site:	MDP #26	North Reference:	True
Well:	Federal 43D-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	21.92	14.33	4,738.44	1,362.72	348.03	1,406.46	0.00	0.00	0.00
5,008.15	21.92	14.33	4,746.00	1,365.67	348.79	1,409.50	0.00	0.00	0.00
Price Coal									
5,100.00	21.92	14.33	4,831.21	1,398.90	357.27	1,443.80	0.00	0.00	0.00
5,200.00	21.92	14.33	4,923.98	1,435.07	366.51	1,481.14	0.00	0.00	0.00
5,300.00	21.92	14.33	5,016.75	1,471.25	375.75	1,518.47	0.00	0.00	0.00
5,400.00	21.92	14.33	5,109.52	1,507.42	384.99	1,555.81	0.00	0.00	0.00
5,500.00	21.92	14.33	5,202.29	1,543.60	394.23	1,593.15	0.00	0.00	0.00
5,512.45	21.92	14.33	5,213.83	1,548.10	395.38	1,597.80	0.00	0.00	0.00
5,547.06	21.40	14.33	5,246.00	1,560.48	398.54	1,610.57	1.50	-1.50	0.00
Top Gas									
5,600.00	20.61	14.33	5,295.42	1,578.87	403.24	1,629.55	1.50	-1.50	0.00
5,700.00	19.11	14.33	5,389.47	1,611.79	411.64	1,663.52	1.50	-1.50	0.00
5,800.00	17.61	14.33	5,484.38	1,642.31	419.44	1,695.02	1.50	-1.50	0.00
5,900.00	16.11	14.33	5,580.08	1,670.41	426.61	1,724.02	1.50	-1.50	0.00
6,000.00	14.61	14.33	5,676.50	1,696.07	433.17	1,750.51	1.50	-1.50	0.00
6,100.00	13.11	14.33	5,773.59	1,719.28	439.10	1,774.47	1.50	-1.50	0.00
6,200.00	11.61	14.33	5,871.27	1,740.02	444.39	1,795.87	1.50	-1.50	0.00
6,300.00	10.11	14.33	5,969.47	1,758.27	449.06	1,814.71	1.50	-1.50	0.00
6,400.00	8.61	14.33	6,068.14	1,774.03	453.08	1,830.98	1.50	-1.50	0.00
6,500.00	7.11	14.33	6,167.20	1,787.28	456.46	1,844.65	1.50	-1.50	0.00
6,600.00	5.61	14.33	6,266.58	1,798.02	459.21	1,855.73	1.50	-1.50	0.00
6,700.00	4.11	14.33	6,366.22	1,806.22	461.30	1,864.20	1.50	-1.50	0.00
6,800.00	2.61	14.33	6,466.04	1,811.90	462.75	1,870.06	1.50	-1.50	0.00
6,900.00	1.11	14.33	6,565.98	1,815.05	463.56	1,873.31	1.50	-1.50	0.00
6,974.02	0.00	0.00	6,640.00	1,815.74	463.73	1,874.03	1.50	-1.50	0.00
7,000.00	0.00	0.00	6,665.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,100.00	0.00	0.00	6,765.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,200.00	0.00	0.00	6,865.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,300.00	0.00	0.00	6,965.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,400.00	0.00	0.00	7,065.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,500.00	0.00	0.00	7,165.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,600.00	0.00	0.00	7,265.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,700.00	0.00	0.00	7,365.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,800.00	0.00	0.00	7,465.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
7,900.00	0.00	0.00	7,565.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,000.00	0.00	0.00	7,665.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,030.02	0.00	0.00	7,696.00	1,815.74	463.73	1,874.03	0.00	0.00	0.00
Rollins									
8,100.00	0.00	0.00	7,765.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,200.00	0.00	0.00	7,865.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,300.00	0.00	0.00	7,965.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,400.00	0.00	0.00	8,065.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,500.00	0.00	0.00	8,165.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,600.00	0.00	0.00	8,265.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,674.02	0.00	0.00	8,340.00	1,815.74	463.73	1,874.03	0.00	0.00	0.00
CRCN									
8,700.00	0.00	0.00	8,365.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,800.00	0.00	0.00	8,465.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,900.00	0.00	0.00	8,565.98	1,815.74	463.73	1,874.03	0.00	0.00	0.00
8,974.02	0.00	0.00	8,640.00	1,815.74	463.73	1,874.03	0.00	0.00	0.00
TD									

BBC

Planning Report

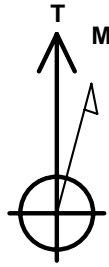
Database:	Compass	Local Co-ordinate Reference:	Well Federal 43D-33-691
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Site:	MDP #26	North Reference:	True
Well:	Federal 43D-33-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,962.53	3,776.00	Mesaverde		0.00		
5,008.15	4,746.00	Price Coal		0.00		
5,547.06	5,246.00	Top Gas		0.00		
8,030.02	7,696.00	Rollins		0.00		
8,674.02	8,340.00	CRCN		0.00		
8,974.02	8,640.00	TD		0.00		

WELL DETAILS: Federal 43D-33-691

Ground Level: 0.00
 +N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.00 0.001606038.1062420431.79228' 45.7074 N 12.3696 W



Azimuths to True North
 Magnetic North: 10.30°

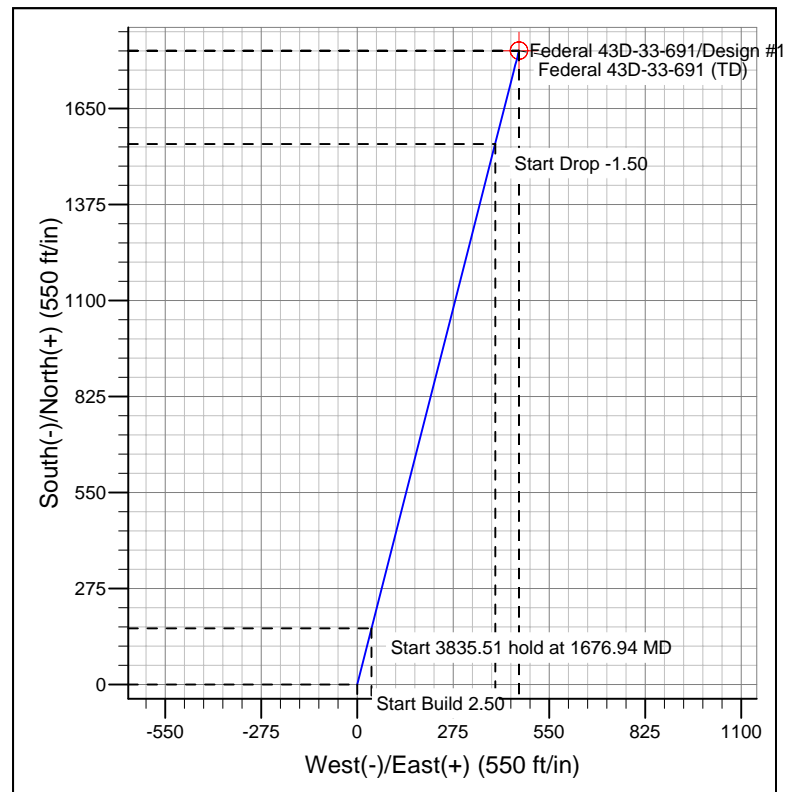
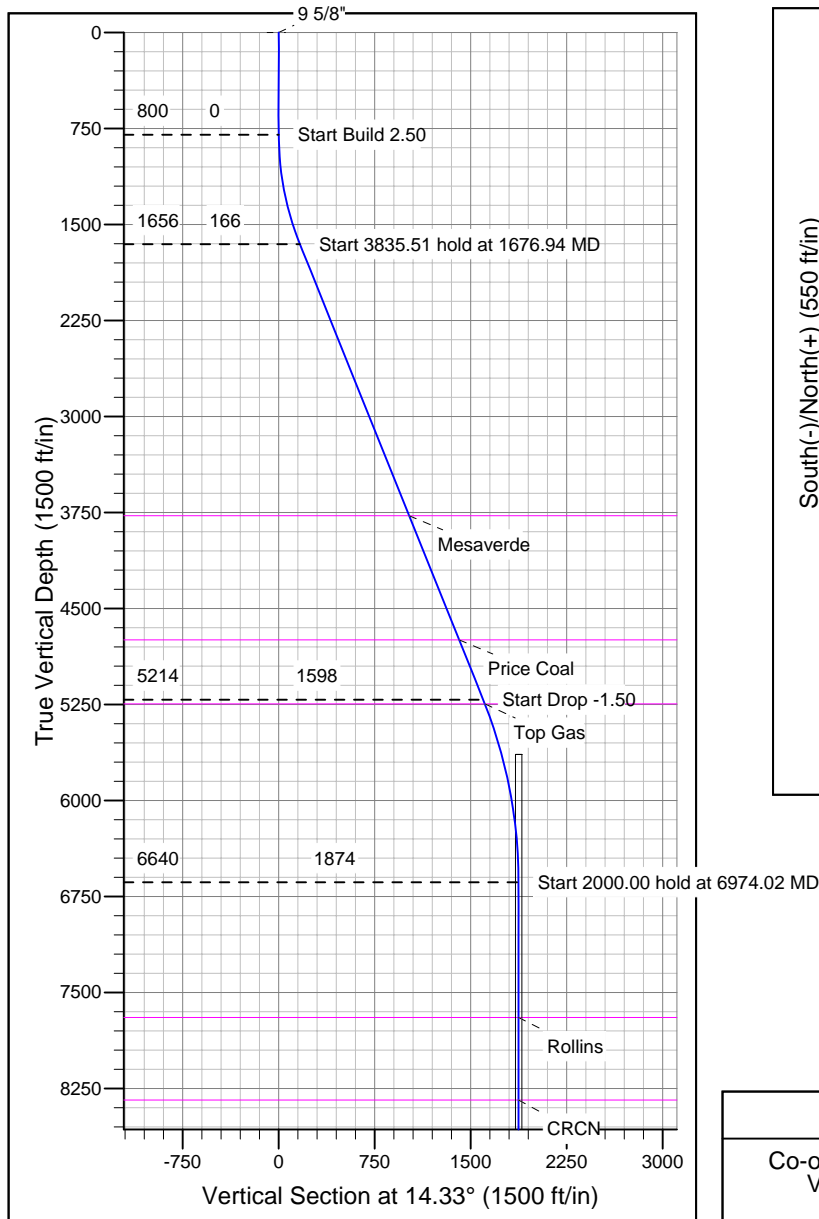
Magnetic Field
 Strength: 52327.3snT
 Dip Angle: 65.80°
 Date: 10/25/2010
 Model: BGGM2007

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	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1676.94	21.92	14.33	1655.70	160.58	41.01	2.50	14.33	165.74	
4	5512.45	21.92	14.33	5213.83	1548.10	395.38	0.00	0.00	597.80	
5	6974.02	0.00	0.00	640.00	1815.74	463.73	1.50	180.00	874.03	
6	8974.02	0.00	0.00	8640.00	1815.74	463.73	0.00	0.00	874.03	Federal 43D-33-691 (TD)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Federal 43D-33-691 (TD)	8640.00	1815.74	463.73	Circle (Radius: 25.00)



FORMATION TOP DETAILS

TVD	MD	Path	Formation
3776.00	962.53		Mesaverde
4746.00	008.15		Price Coal
5246.00	547.06		Top Gas
7696.00	030.02		Rollins
8340.00	674.02		CRCN
8640.00	974.02		TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Federal 43D-33-691, 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