

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Scott Pad 41C-36-692**

**GGU 24B-30-691**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**07 November, 2011**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well GGU 24B-30-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5922.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5922.00ft (Original Well Elev)
<b>Site:</b>	Scott Pad 41C-36-692	<b>North Reference:</b>	Grid
<b>Well:</b>	GGU 24B-30-691	<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>	Scott Pad 41C-36-692		
<b>Site Position:</b>		<b>Northing:</b>	1,611,087.890 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,405,834.265 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 29' 32.309 N
		<b>Longitude:</b>	107° 36' 19.9872 W
		<b>Grid Convergence:</b>	-1.33 °

<b>Well</b>	GGU 24B-30-691		
<b>Well Position</b>	<b>+N/-S</b>	23.41 ft	<b>Northing:</b>
	<b>+E/-W</b>	11.27 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 29' 32.543 N
			<b>Longitude:</b>
			107° 36' 19.8504 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	11/7/2011	10.12	65.80	52,259

<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	84.41

<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	
730.00	0.00	0.00	730.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,270.27	38.51	84.41	2,156.91	48.51	496.03	2.50	2.50	0.00	84.41	
3,164.67	38.51	84.41	2,856.81	102.70	1,050.24	0.00	0.00	0.00	0.00	
5,731.80	0.00	0.00	5,235.00	183.55	1,876.96	1.50	-1.50	0.00	180.00	
7,731.80	0.00	0.00	7,235.00	183.55	1,876.96	0.00	0.00	0.00	0.00	

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## Planning Report

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<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5922.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5922.00ft (Original Well Elev)
<b>Site:</b>	Scott Pad 41C-36-692	<b>North Reference:</b>	Grid
<b>Well:</b>	GGU 24B-30-691	<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	
730.00	0.00	0.00	730.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	1.75	84.41	799.99	0.10	1.06	1.07	2.50	2.50	0.00	
900.00	4.25	84.41	899.84	0.61	6.27	6.30	2.50	2.50	0.00	
1,000.00	6.75	84.41	999.38	1.55	15.81	15.89	2.50	2.50	0.00	
1,100.00	9.25	84.41	1,098.39	2.90	29.66	29.80	2.50	2.50	0.00	
1,200.00	11.75	84.41	1,196.71	4.67	47.80	48.02	2.50	2.50	0.00	
1,300.00	14.25	84.41	1,294.14	6.86	70.18	70.52	2.50	2.50	0.00	
1,400.00	16.75	84.41	1,390.50	9.46	96.78	97.24	2.50	2.50	0.00	
1,500.00	19.25	84.41	1,485.60	12.47	127.53	128.14	2.50	2.50	0.00	
1,600.00	21.75	84.41	1,579.26	15.88	162.38	163.16	2.50	2.50	0.00	
1,700.00	24.25	84.41	1,671.30	19.68	201.27	202.23	2.50	2.50	0.00	
1,800.00	26.75	84.41	1,761.55	23.87	244.11	245.27	2.50	2.50	0.00	
1,900.00	29.25	84.41	1,849.84	28.44	290.83	292.22	2.50	2.50	0.00	
2,000.00	31.75	84.41	1,935.99	33.38	341.34	342.97	2.50	2.50	0.00	
2,100.00	34.25	84.41	2,019.85	38.68	395.54	397.43	2.50	2.50	0.00	
2,200.00	36.75	84.41	2,101.26	44.33	453.33	455.49	2.50	2.50	0.00	
2,270.27	38.51	84.41	2,156.91	48.51	496.03	498.40	2.50	2.50	0.00	
2,300.00	38.51	84.41	2,180.17	50.31	514.45	516.90	0.00	0.00	0.00	
2,400.00	38.51	84.41	2,258.43	56.37	576.41	579.16	0.00	0.00	0.00	
2,500.00	38.51	84.41	2,336.68	62.43	638.38	641.42	0.00	0.00	0.00	
2,600.00	38.51	84.41	2,414.94	68.49	700.34	703.68	0.00	0.00	0.00	
2,700.00	38.51	84.41	2,493.19	74.55	762.31	765.95	0.00	0.00	0.00	
2,800.00	38.51	84.41	2,571.44	80.61	824.27	828.21	0.00	0.00	0.00	
2,900.00	38.51	84.41	2,649.70	86.67	886.24	890.47	0.00	0.00	0.00	
3,000.00	38.51	84.41	2,727.95	92.73	948.20	952.73	0.00	0.00	0.00	
3,100.00	38.51	84.41	2,806.20	98.79	1,010.17	1,014.99	0.00	0.00	0.00	
3,164.67	38.51	84.41	2,856.81	102.70	1,050.24	1,055.25	0.00	0.00	0.00	
3,200.00	37.98	84.41	2,884.56	104.83	1,072.01	1,077.12	1.50	-1.50	0.00	
3,300.00	36.48	84.41	2,964.18	110.72	1,132.22	1,137.62	1.50	-1.50	0.00	
3,400.00	34.98	84.41	3,045.36	116.40	1,190.33	1,196.01	1.50	-1.50	0.00	
3,500.00	33.48	84.41	3,128.04	121.88	1,246.31	1,252.25	1.50	-1.50	0.00	
3,600.00	31.98	84.41	3,212.16	127.14	1,300.11	1,306.31	1.50	-1.50	0.00	
3,700.00	30.48	84.41	3,297.67	132.19	1,351.71	1,358.16	1.50	-1.50	0.00	
3,800.00	28.98	84.41	3,384.51	137.01	1,401.06	1,407.74	1.50	-1.50	0.00	
3,900.00	27.48	84.41	3,472.61	141.61	1,448.13	1,455.04	1.50	-1.50	0.00	
4,000.00	25.98	84.41	3,561.93	145.99	1,492.89	1,500.01	1.50	-1.50	0.00	
4,100.00	24.48	84.41	3,652.39	150.14	1,535.30	1,542.63	1.50	-1.50	0.00	
4,200.00	22.98	84.41	3,743.93	154.06	1,575.35	1,582.86	1.50	-1.50	0.00	
4,300.00	21.48	84.41	3,836.50	157.74	1,613.00	1,620.69	1.50	-1.50	0.00	
4,400.00	19.98	84.41	3,930.02	161.18	1,648.22	1,656.08	1.50	-1.50	0.00	
4,500.00	18.48	84.41	4,024.44	164.39	1,680.99	1,689.01	1.50	-1.50	0.00	
4,600.00	16.98	84.41	4,119.69	167.35	1,711.30	1,719.46	1.50	-1.50	0.00	
4,700.00	15.48	84.41	4,215.71	170.07	1,739.11	1,747.40	1.50	-1.50	0.00	
4,800.00	13.98	84.41	4,312.42	172.54	1,764.41	1,772.82	1.50	-1.50	0.00	
4,900.00	12.48	84.41	4,409.76	174.77	1,787.18	1,795.70	1.50	-1.50	0.00	

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<b>Site:</b>	Scott Pad 41C-36-692	<b>North Reference:</b>	Grid
<b>Well:</b>	GGU 24B-30-691	<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)
5,000.00	10.98	84.41	4,507.67	176.75	1,807.41	1,816.03	1.50	-1.50	0.00
5,100.00	9.48	84.41	4,606.08	178.48	1,825.08	1,833.78	1.50	-1.50	0.00
5,200.00	7.98	84.41	4,704.92	179.95	1,840.18	1,848.95	1.50	-1.50	0.00
5,300.00	6.48	84.41	4,804.12	181.18	1,852.70	1,861.53	1.50	-1.50	0.00
5,400.00	4.98	84.41	4,903.62	182.15	1,862.63	1,871.51	1.50	-1.50	0.00
5,500.00	3.48	84.41	5,003.35	182.87	1,869.96	1,878.88	1.50	-1.50	0.00
5,600.00	1.98	84.41	5,103.23	183.33	1,874.70	1,883.64	1.50	-1.50	0.00
5,700.00	0.48	84.41	5,203.20	183.54	1,876.83	1,885.78	1.50	-1.50	0.00
5,731.80	0.00	0.00	5,235.00	183.55	1,876.96	1,885.91	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,303.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
5,900.00	0.00	0.00	5,403.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,000.00	0.00	0.00	5,503.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,100.00	0.00	0.00	5,603.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,200.00	0.00	0.00	5,703.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,300.00	0.00	0.00	5,803.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,400.00	0.00	0.00	5,903.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,500.00	0.00	0.00	6,003.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,600.00	0.00	0.00	6,103.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,700.00	0.00	0.00	6,203.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,800.00	0.00	0.00	6,303.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
6,900.00	0.00	0.00	6,403.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,000.00	0.00	0.00	6,503.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,100.00	0.00	0.00	6,603.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,200.00	0.00	0.00	6,703.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,300.00	0.00	0.00	6,803.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,400.00	0.00	0.00	6,903.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,500.00	0.00	0.00	7,003.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,600.00	0.00	0.00	7,103.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,700.00	0.00	0.00	7,203.20	183.55	1,876.96	1,885.91	0.00	0.00	0.00
7,731.80	0.00	0.00	7,235.00	183.55	1,876.96	1,885.91	0.00	0.00	0.00

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
730.00	730.00	9 5/8"	9-5/8	12-1/4

### Formations

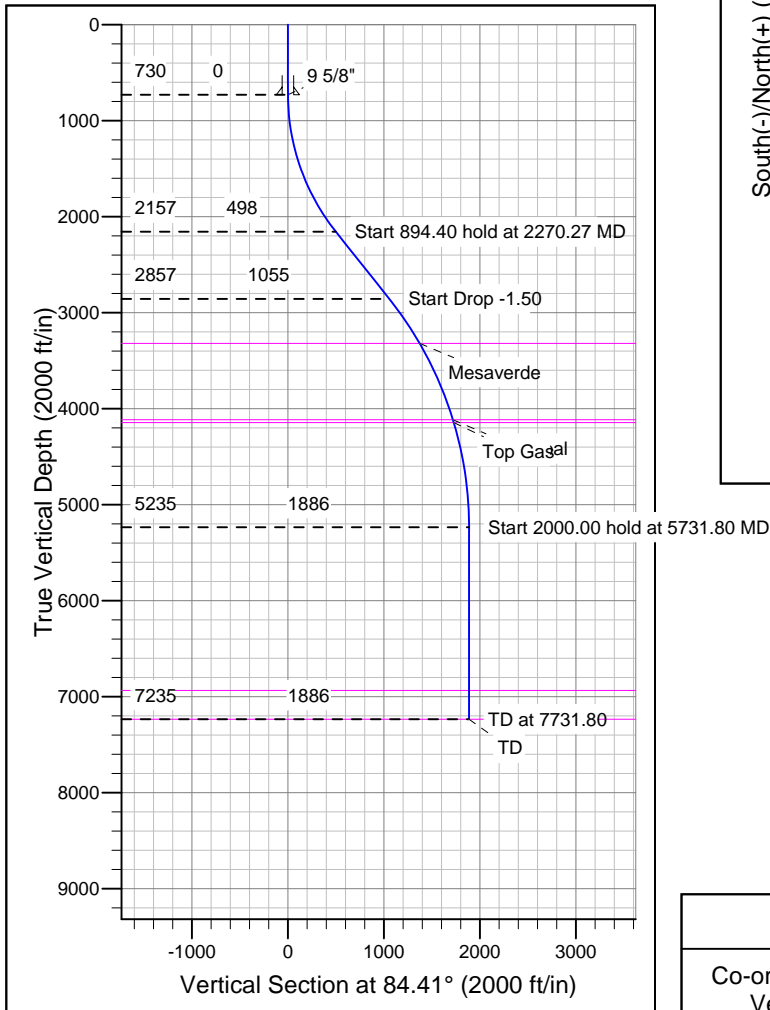
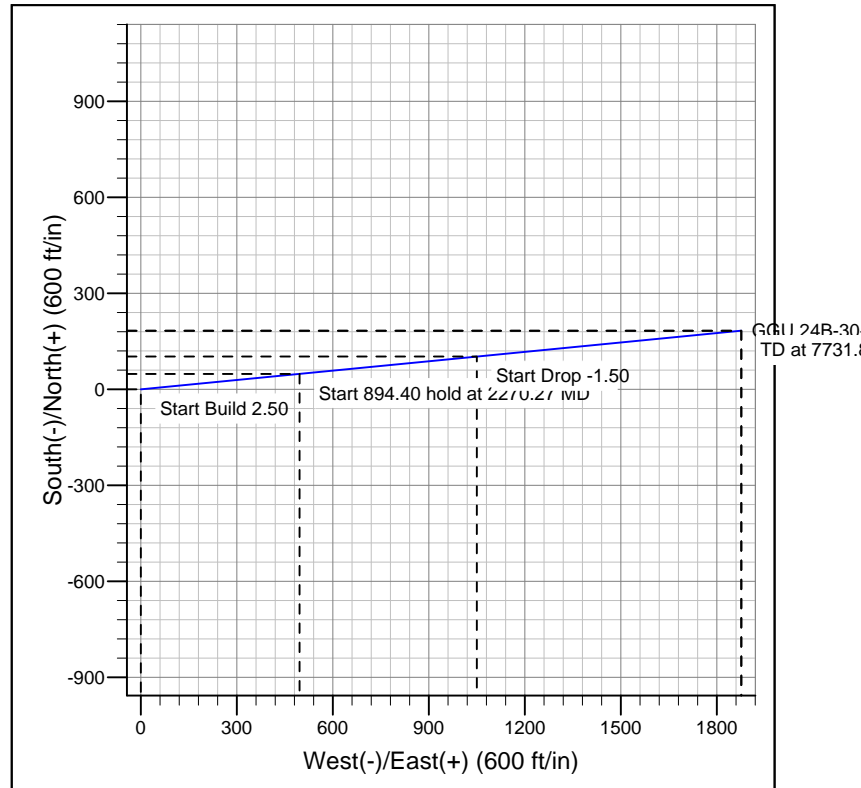
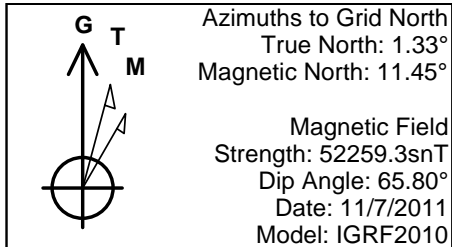
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,725.86	3,320.00	Mesaverde		0.00	
4,595.09	4,115.00	Price Coal		0.00	
4,626.43	4,145.00	Top Gas		0.00	
7,431.80	6,935.00	Rollins		0.00	
7,731.80	7,235.00	TD		0.00	

# WELL DETAILS: GGU 24B-30-691

+N/-S	+E/-W	Northing	Ground Level:	0.00		
0.00	0.00	1611111.302	Easting	2405845.535	Latitude	Longitude
				39° 29' 32.543 N	07° 36' 19.8504 W	Slot

## 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	730.00	0.00	0.00	730.00	0.00	0.00	0.00	0.00	0.00	
3	2270.27	38.51	84.41	2156.91	48.51	496.03	2.50	84.41	498.40	
4	3164.67	38.51	84.41	2856.81	102.70	1050.24	0.00	0.00	1055.25	
5	5731.80	0.00	0.00	5235.00	183.55	1876.96	1.50	180.00	1885.91	
6	7731.80	0.00	0.00	7235.00	183.55	1876.96	0.00	0.00	1885.91	GGU 24B-30-691 (TD)



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3320.00	3725.86	Mesaverde
4115.00	4595.09	Price Coal
4145.00	4626.43	Top Gas
6935.00	7431.80	Rollins
7235.00	7731.80	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU 24B-30-691, Grid North  
 Vertical (TVD) Reference: WELL @ 5922.00ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 5922.00ft (Original Well Elev)  
 Calculation Method: Minimum Curvature