

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**MDP #15**

**GGU Swanson 33C-29-691**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**15 April, 2010**

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well GGU Swanson 33C-29-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Site:</b>	MDP #15	<b>North Reference:</b>	True
<b>Well:</b>	GGU Swanson 33C-29-691	<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 #15		
<b>Site Position:</b>		<b>Northing:</b>	1,612,461.747 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,414,303.528 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 29' 47.810 N
		<b>Longitude:</b>	107° 34' 32.3800 W
		<b>Grid Convergence:</b>	-1.31 °

<b>Well</b>	GGU Swanson 33C-29-691					
<b>Well Position</b>	<b>+N-S</b>	32.37 ft	<b>Northing:</b>	1,612,496.166 ft	<b>Latitude:</b>	39° 29' 48.130 N
	<b>+E/-W</b>	-90.15 ft	<b>Easting:</b>	2,414,214.144 ft	<b>Longitude:</b>	107° 34' 33.5300 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<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	4/15/2010	10.37	65.83	52,398

<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	41.02

<b>Plan Sections</b>										
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	
735.00	0.00	0.00	735.00	0.00	0.00	0.00	0.00	0.00	0.00	
863.43	3.21	41.02	863.36	2.71	2.36	2.50	2.50	0.00	41.02	
4,594.99	3.21	41.02	4,589.07	160.41	139.52	0.00	0.00	0.00	0.00	
4,809.04	0.00	0.00	4,803.00	164.93	143.45	1.50	-1.50	0.00	180.00	
7,309.04	0.00	0.00	7,303.00	164.93	143.45	0.00	0.00	0.00	0.00	GGU Swanson 33C

**BBC**  
Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well GGU Swanson 33C-29-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Site:</b>	MDP #15	<b>North Reference:</b>	True
<b>Well:</b>	GGU Swanson 33C-29-691	<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
735.00	0.00	0.00	735.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>9 5/8"</b>									
800.00	1.62	41.02	799.99	0.70	0.60	0.92	2.50	2.50	0.00
863.43	3.21	41.02	863.36	2.71	2.36	3.60	2.50	2.50	0.00
900.00	3.21	41.02	899.88	4.26	3.71	5.65	0.00	0.00	0.00
1,000.00	3.21	41.02	999.72	8.49	7.38	11.25	0.00	0.00	0.00
1,100.00	3.21	41.02	1,099.56	12.71	11.06	16.85	0.00	0.00	0.00
1,200.00	3.21	41.02	1,199.40	16.94	14.73	22.45	0.00	0.00	0.00
1,300.00	3.21	41.02	1,299.25	21.16	18.41	28.05	0.00	0.00	0.00
1,400.00	3.21	41.02	1,399.09	25.39	22.08	33.65	0.00	0.00	0.00
1,500.00	3.21	41.02	1,498.93	29.62	25.76	39.25	0.00	0.00	0.00
1,600.00	3.21	41.02	1,598.78	33.84	29.43	44.85	0.00	0.00	0.00
1,700.00	3.21	41.02	1,698.62	38.07	33.11	50.45	0.00	0.00	0.00
1,800.00	3.21	41.02	1,798.46	42.29	36.78	56.05	0.00	0.00	0.00
1,900.00	3.21	41.02	1,898.31	46.52	40.46	61.65	0.00	0.00	0.00
2,000.00	3.21	41.02	1,998.15	50.74	44.14	67.25	0.00	0.00	0.00
2,100.00	3.21	41.02	2,097.99	54.97	47.81	72.85	0.00	0.00	0.00
2,200.00	3.21	41.02	2,197.83	59.20	51.49	78.45	0.00	0.00	0.00
2,300.00	3.21	41.02	2,297.68	63.42	55.16	84.05	0.00	0.00	0.00
2,400.00	3.21	41.02	2,397.52	67.65	58.84	89.66	0.00	0.00	0.00
2,500.00	3.21	41.02	2,497.36	71.87	62.51	95.26	0.00	0.00	0.00
2,600.00	3.21	41.02	2,597.21	76.10	66.19	100.86	0.00	0.00	0.00
2,700.00	3.21	41.02	2,697.05	80.33	69.86	106.46	0.00	0.00	0.00
2,800.00	3.21	41.02	2,796.89	84.55	73.54	112.06	0.00	0.00	0.00
2,900.00	3.21	41.02	2,896.74	88.78	77.22	117.66	0.00	0.00	0.00
3,000.00	3.21	41.02	2,996.58	93.00	80.89	123.26	0.00	0.00	0.00
3,100.00	3.21	41.02	3,096.42	97.23	84.57	128.86	0.00	0.00	0.00
3,200.00	3.21	41.02	3,196.27	101.45	88.24	134.46	0.00	0.00	0.00
3,300.00	3.21	41.02	3,296.11	105.68	91.92	140.06	0.00	0.00	0.00
3,400.00	3.21	41.02	3,395.95	109.91	95.59	145.66	0.00	0.00	0.00
3,447.12	3.21	41.02	3,443.00	111.90	97.33	148.30	0.00	0.00	0.00
<b>Mesaverde</b>									
3,500.00	3.21	41.02	3,495.79	114.13	99.27	151.26	0.00	0.00	0.00
3,600.00	3.21	41.02	3,595.64	118.36	102.94	156.86	0.00	0.00	0.00
3,700.00	3.21	41.02	3,695.48	122.58	106.62	162.46	0.00	0.00	0.00
3,800.00	3.21	41.02	3,795.32	126.81	110.30	168.06	0.00	0.00	0.00
3,900.00	3.21	41.02	3,895.17	131.04	113.97	173.67	0.00	0.00	0.00
4,000.00	3.21	41.02	3,995.01	135.26	117.65	179.27	0.00	0.00	0.00
4,100.00	3.21	41.02	4,094.85	139.49	121.32	184.87	0.00	0.00	0.00
4,200.00	3.21	41.02	4,194.70	143.71	125.00	190.47	0.00	0.00	0.00
4,203.31	3.21	41.02	4,198.00	143.85	125.12	190.65	0.00	0.00	0.00
<b>Price Coal</b>									
4,300.00	3.21	41.02	4,294.54	147.94	128.67	196.07	0.00	0.00	0.00
4,400.00	3.21	41.02	4,394.38	152.17	132.35	201.67	0.00	0.00	0.00
4,500.00	3.21	41.02	4,494.22	156.39	136.02	207.27	0.00	0.00	0.00

**BBC**  
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<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Site:</b>	MDP #15	<b>North Reference:</b>	True
<b>Well:</b>	GGU Swanson 33C-29-691	<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)
4,594.99	3.21	41.02	4,589.07	160.41	139.52	212.59	0.00	0.00	0.00
4,600.00	3.14	41.02	4,594.07	160.61	139.70	212.87	1.50	-1.50	0.00
4,700.00	1.64	41.02	4,693.98	163.76	142.43	217.03	1.50	-1.50	0.00
4,800.00	0.14	41.02	4,793.96	164.92	143.44	218.57	1.50	-1.50	0.00
4,809.04	0.00	0.00	4,803.00	164.93	143.45	218.59	1.50	-1.50	0.00
4,900.00	0.00	0.00	4,893.96	164.93	143.45	218.59	0.00	0.00	0.00
4,919.04	0.00	0.00	4,913.00	164.93	143.45	218.59	0.00	0.00	0.00
<b>Top Gas</b>									
5,000.00	0.00	0.00	4,993.96	164.93	143.45	218.59	0.00	0.00	0.00
5,100.00	0.00	0.00	5,093.96	164.93	143.45	218.59	0.00	0.00	0.00
5,200.00	0.00	0.00	5,193.96	164.93	143.45	218.59	0.00	0.00	0.00
5,300.00	0.00	0.00	5,293.96	164.93	143.45	218.59	0.00	0.00	0.00
5,400.00	0.00	0.00	5,393.96	164.93	143.45	218.59	0.00	0.00	0.00
5,500.00	0.00	0.00	5,493.96	164.93	143.45	218.59	0.00	0.00	0.00
5,600.00	0.00	0.00	5,593.96	164.93	143.45	218.59	0.00	0.00	0.00
5,700.00	0.00	0.00	5,693.96	164.93	143.45	218.59	0.00	0.00	0.00
5,800.00	0.00	0.00	5,793.96	164.93	143.45	218.59	0.00	0.00	0.00
5,900.00	0.00	0.00	5,893.96	164.93	143.45	218.59	0.00	0.00	0.00
6,000.00	0.00	0.00	5,993.96	164.93	143.45	218.59	0.00	0.00	0.00
6,100.00	0.00	0.00	6,093.96	164.93	143.45	218.59	0.00	0.00	0.00
6,200.00	0.00	0.00	6,193.96	164.93	143.45	218.59	0.00	0.00	0.00
6,300.00	0.00	0.00	6,293.96	164.93	143.45	218.59	0.00	0.00	0.00
6,400.00	0.00	0.00	6,393.96	164.93	143.45	218.59	0.00	0.00	0.00
6,500.00	0.00	0.00	6,493.96	164.93	143.45	218.59	0.00	0.00	0.00
6,600.00	0.00	0.00	6,593.96	164.93	143.45	218.59	0.00	0.00	0.00
6,700.00	0.00	0.00	6,693.96	164.93	143.45	218.59	0.00	0.00	0.00
6,800.00	0.00	0.00	6,793.96	164.93	143.45	218.59	0.00	0.00	0.00
6,900.00	0.00	0.00	6,893.96	164.93	143.45	218.59	0.00	0.00	0.00
7,000.00	0.00	0.00	6,993.96	164.93	143.45	218.59	0.00	0.00	0.00
7,009.04	0.00	0.00	7,003.00	164.93	143.45	218.59	0.00	0.00	0.00
<b>Rollins</b>									
7,100.00	0.00	0.00	7,093.96	164.93	143.45	218.59	0.00	0.00	0.00
7,200.00	0.00	0.00	7,193.96	164.93	143.45	218.59	0.00	0.00	0.00
7,300.00	0.00	0.00	7,293.96	164.93	143.45	218.59	0.00	0.00	0.00
7,309.04	0.00	0.00	7,303.00	164.93	143.45	218.59	0.00	0.00	0.00
<b>TD</b>									

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
735.00	735.00	9 5/8"	9-5/8	12-1/4

# BBC

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well GGU Swanson 33C-29-691
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 6031.00ft (Original Well Elev)
<b>Site:</b>	MDP #15	<b>North Reference:</b>	True
<b>Well:</b>	GGU Swanson 33C-29-691	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

### Formations

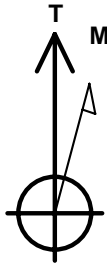
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,447.12	3,443.00	Mesaverde		0.00	
4,203.31	4,198.00	Price Coal		0.00	
4,919.04	4,913.00	Top Gas		0.00	
7,009.04	7,003.00	Rollins		0.00	
7,309.04	7,303.00	TD		0.00	

WELL DETAILS: GGU Swanson 33C-29-691

Ground Level: 0.00  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1612496.166 2414214.394 29° 48' 10" N 104° 33' 53" W

SECTION DETAILS

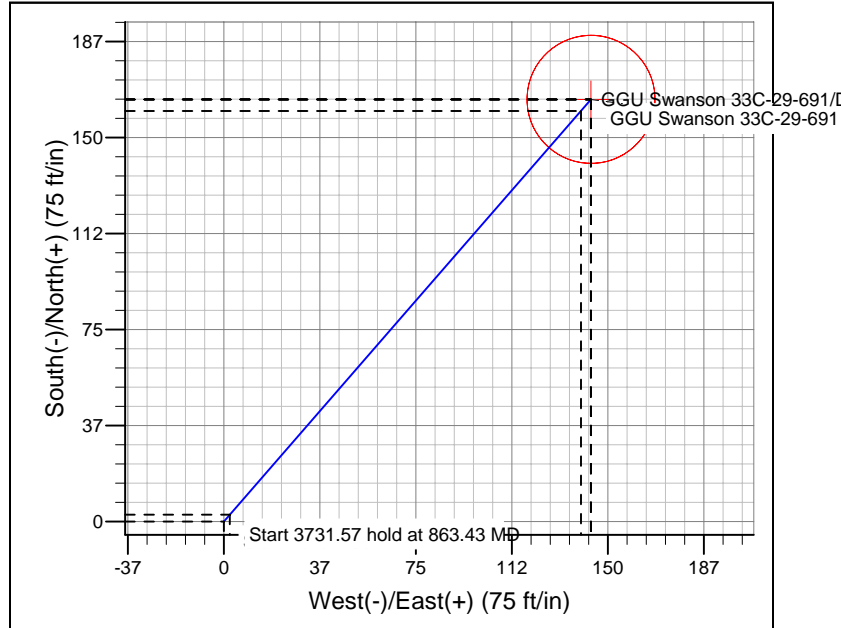
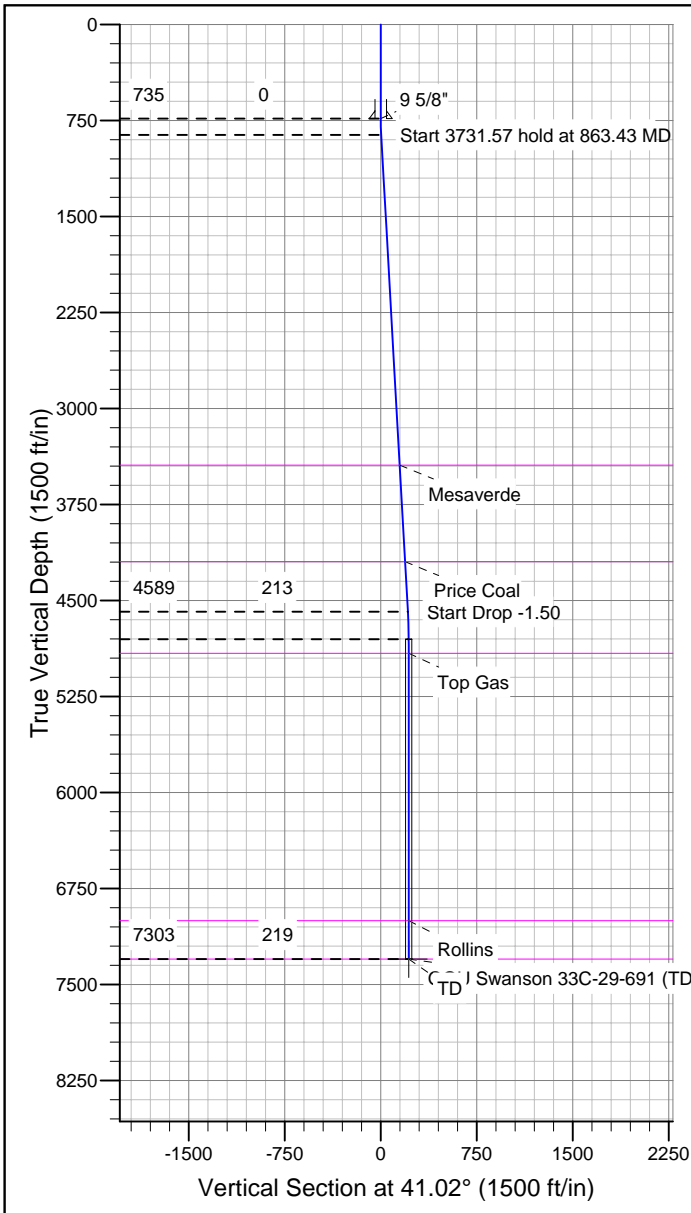
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	735.00	0.00	0.00	735.00	0.00	0.00	0.00	0.00	0.00	
	863.43	3.21	41.02	863.36	2.71	2.36	2.50	41.02	3.60	
	4594.99	3.21	41.02	4589.07	160.41	139.52	0.00	0.00	212.59	
	4809.04	0.00	0.00	4803.00	164.93	143.45	1.50	180.00	218.59	
	7309.04	0.00	0.00	7303.00	164.93	143.45	0.00	0.00	218.59	GGU Swanson 33C-29-691 (TD)



Azimuths to True North  
 Magnetic North: 10.37°  
 Magnetic Field  
 Strength: 52398.2snT  
 Dip Angle: 65.83°  
 Date: 4/15/2010  
 Model: BGGM2007

WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape  
 GGU Swanson 33C-29-691 (TD) 6031.00 143.45 Circle (Radius: 25.00)



CASING DETAILS

TVD MD Name Size  
 735.00 735.00 9 5/8" 9-5/8

FORMATION TOP DETAILS

TVD	MD	Formation
3443.00	3447.12	Mesaverde
4198.00	4203.31	Price Coal
4913.00	4919.04	Top Gas
7003.00	7009.04	Rollins
7303.00	7309.04	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Swanson 33C-29-691, True North  
 Vertical (TVD) Reference: WELL @ 6031.00ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 6031.00ft (Original Well Elev)  
 Calculation Method: Minimum Curvature