

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #11

GGU Federal #31C-29-691

GGU Federal #31C-20-691

Plan: Design #1

Standard Planning Report

28 April, 2010

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #31C-29-691
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #11	North Reference:	Grid
Well:	GGU Federal #31C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31C-20-691		
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 #11		
Site Position:		Northing:	1,614,678.473 ft
From:	Lat/Long	Easting:	2,415,085.675 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	39° 30' 9.890 N
		Longitude:	107° 34' 23.0500 W
		Grid Convergence:	-1.31 °

Well	GGU Federal #31C-29-691		
Well Position	+N/-S	36.41 ft	Northing:
	+E/-W	-88.55 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 10.230 N
			Longitude:
			107° 34' 24.1900 W
			Ground Level:
			0.00 ft

Wellbore	GGU Federal #31C-20-691				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.33	65.87	52,532

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	319.02

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	
838.70	0.00	0.00	838.70	0.00	0.00	0.00	0.00	0.00	0.00	
1,488.53	16.25	319.02	1,479.85	69.08	-60.01	2.50	2.50	0.00	319.02	
4,202.90	16.25	319.02	4,085.85	642.35	-558.00	0.00	0.00	0.00	0.00	
4,852.73	0.00	0.00	4,727.00	711.44	-618.01	2.50	-2.50	0.00	180.00	
7,512.73	0.00	0.00	7,387.00	711.44	-618.01	0.00	0.00	0.00	0.00	PBHL_GGU Feder

BBC
Planning Report

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Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #11	North Reference:	Grid
Well:	GGU Federal #31C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31C-20-691		
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
738.70	0.00	0.00	738.70	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
838.70	0.00	0.00	838.70	0.00	0.00	0.00	0.00	0.00	0.00
900.00	1.53	319.02	899.99	0.62	-0.54	0.82	2.50	2.50	0.00
1,000.00	4.03	319.02	999.87	4.28	-3.72	5.67	2.50	2.50	0.00
1,100.00	6.53	319.02	1,099.43	11.23	-9.76	14.88	2.50	2.50	0.00
1,200.00	9.03	319.02	1,198.51	21.46	-18.64	28.42	2.50	2.50	0.00
1,300.00	11.53	319.02	1,296.89	34.93	-30.34	46.27	2.50	2.50	0.00
1,400.00	14.03	319.02	1,394.41	51.63	-44.85	68.39	2.50	2.50	0.00
1,488.53	16.25	319.02	1,479.85	69.08	-60.01	91.51	2.50	2.50	0.00
1,500.00	16.25	319.02	1,490.87	71.51	-62.12	94.72	0.00	0.00	0.00
1,600.00	16.25	319.02	1,586.88	92.63	-80.46	122.70	0.00	0.00	0.00
1,700.00	16.25	319.02	1,682.88	113.75	-98.81	150.67	0.00	0.00	0.00
1,800.00	16.25	319.02	1,778.89	134.87	-117.16	178.65	0.00	0.00	0.00
1,900.00	16.25	319.02	1,874.90	155.99	-135.50	206.62	0.00	0.00	0.00
2,000.00	16.25	319.02	1,970.91	177.11	-153.85	234.60	0.00	0.00	0.00
2,100.00	16.25	319.02	2,066.91	198.23	-172.20	262.57	0.00	0.00	0.00
2,200.00	16.25	319.02	2,162.92	219.35	-190.54	290.55	0.00	0.00	0.00
2,300.00	16.25	319.02	2,258.93	240.47	-208.89	318.52	0.00	0.00	0.00
2,400.00	16.25	319.02	2,354.93	261.58	-227.24	346.50	0.00	0.00	0.00
2,500.00	16.25	319.02	2,450.94	282.70	-245.58	374.48	0.00	0.00	0.00
2,600.00	16.25	319.02	2,546.95	303.82	-263.93	402.45	0.00	0.00	0.00
2,700.00	16.25	319.02	2,642.96	324.94	-282.27	430.43	0.00	0.00	0.00
2,800.00	16.25	319.02	2,738.96	346.06	-300.62	458.40	0.00	0.00	0.00
2,900.00	16.25	319.02	2,834.97	367.18	-318.97	486.38	0.00	0.00	0.00
3,000.00	16.25	319.02	2,930.98	388.30	-337.31	514.35	0.00	0.00	0.00
3,100.00	16.25	319.02	3,026.98	409.42	-355.66	542.33	0.00	0.00	0.00
3,200.00	16.25	319.02	3,122.99	430.54	-374.01	570.30	0.00	0.00	0.00
3,300.00	16.25	319.02	3,219.00	451.66	-392.35	598.28	0.00	0.00	0.00
3,400.00	16.25	319.02	3,315.01	472.78	-410.70	626.26	0.00	0.00	0.00
3,500.00	16.25	319.02	3,411.01	493.90	-429.05	654.23	0.00	0.00	0.00
3,600.00	16.25	319.02	3,507.02	515.02	-447.39	682.21	0.00	0.00	0.00
3,605.19	16.25	319.02	3,512.00	516.12	-448.34	683.66	0.00	0.00	0.00
Mesaverde									
3,700.00	16.25	319.02	3,603.03	536.14	-465.74	710.18	0.00	0.00	0.00
3,800.00	16.25	319.02	3,699.03	557.26	-484.08	738.16	0.00	0.00	0.00
3,900.00	16.25	319.02	3,795.04	578.38	-502.43	766.13	0.00	0.00	0.00
4,000.00	16.25	319.02	3,891.05	599.50	-520.78	794.11	0.00	0.00	0.00
4,100.00	16.25	319.02	3,987.05	620.62	-539.12	822.08	0.00	0.00	0.00
4,200.00	16.25	319.02	4,083.06	641.74	-557.47	850.06	0.00	0.00	0.00
4,202.90	16.25	319.02	4,085.85	642.35	-558.00	850.87	0.00	0.00	0.00
4,300.00	13.82	319.02	4,179.62	661.36	-574.52	876.05	2.50	-2.50	0.00
4,400.00	11.32	319.02	4,277.21	677.79	-588.79	897.81	2.50	-2.50	0.00
4,430.34	10.56	319.02	4,307.00	682.13	-592.56	903.57	2.50	-2.50	0.00

BBC

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Site:	MDP #11	North Reference:	Grid
Well:	GGU Federal #31C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31C-20-691		
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)
Price Coal									
4,500.00	8.82	319.02	4,375.66	690.99	-600.25	915.29	2.50	-2.50	0.00
4,600.00	6.32	319.02	4,474.79	700.93	-608.89	928.46	2.50	-2.50	0.00
4,700.00	3.82	319.02	4,574.39	707.60	-614.68	937.30	2.50	-2.50	0.00
4,800.00	1.32	319.02	4,674.28	710.98	-617.62	941.78	2.50	-2.50	0.00
4,852.73	0.00	0.00	4,727.00	711.44	-618.01	942.38	2.50	-2.50	0.00
Top of Gas									
4,900.00	0.00	0.00	4,774.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,000.00	0.00	0.00	4,874.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,100.00	0.00	0.00	4,974.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,200.00	0.00	0.00	5,074.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,300.00	0.00	0.00	5,174.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,400.00	0.00	0.00	5,274.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,500.00	0.00	0.00	5,374.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,600.00	0.00	0.00	5,474.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,700.00	0.00	0.00	5,574.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,800.00	0.00	0.00	5,674.27	711.44	-618.01	942.38	0.00	0.00	0.00
5,900.00	0.00	0.00	5,774.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,000.00	0.00	0.00	5,874.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,100.00	0.00	0.00	5,974.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,200.00	0.00	0.00	6,074.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,300.00	0.00	0.00	6,174.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,400.00	0.00	0.00	6,274.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,500.00	0.00	0.00	6,374.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,600.00	0.00	0.00	6,474.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,700.00	0.00	0.00	6,574.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,800.00	0.00	0.00	6,674.27	711.44	-618.01	942.38	0.00	0.00	0.00
6,900.00	0.00	0.00	6,774.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,000.00	0.00	0.00	6,874.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,100.00	0.00	0.00	6,974.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,200.00	0.00	0.00	7,074.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,212.73	0.00	0.00	7,087.00	711.44	-618.01	942.38	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,174.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,400.00	0.00	0.00	7,274.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,500.00	0.00	0.00	7,374.27	711.44	-618.01	942.38	0.00	0.00	0.00
7,512.73	0.00	0.00	7,387.00	711.44	-618.01	942.38	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
738.70	738.70	Surface Casing	9-5/8	12-1/4

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #31C-29-691
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #11	North Reference:	Grid
Well:	GGU Federal #31C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31C-20-691		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,605.19	3,512.00	Mesaverde		0.00		
4,430.34	4,307.00	Price Coal		0.00		
4,852.73	4,727.00	Top of Gas		0.00		
7,212.73	7,087.00	Rollins		0.00		

WELL DETAILS: GGU Federal #31C-29-691

Ground Level: 0.00
 +N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1614714.881 2414997.128 30° 10.237' N 104° 24.1900 W



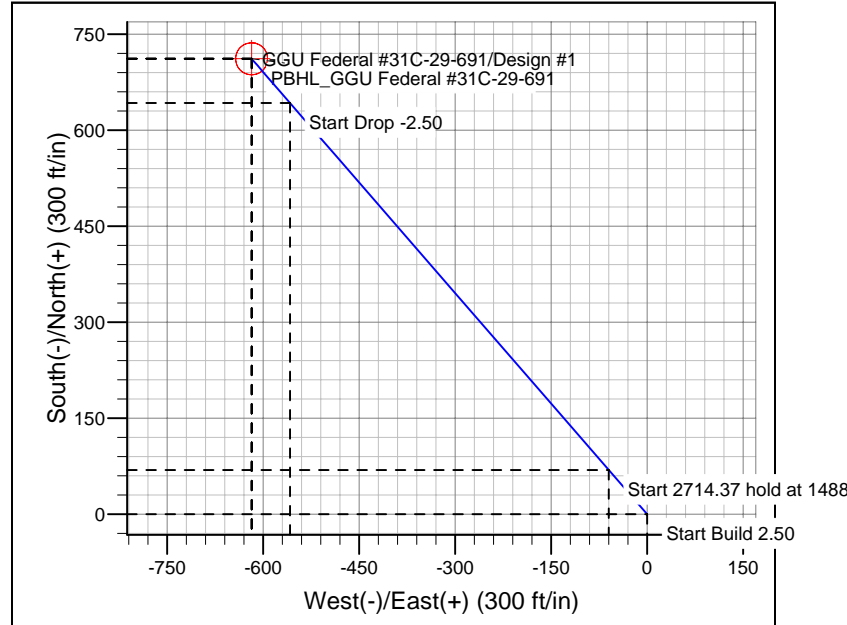
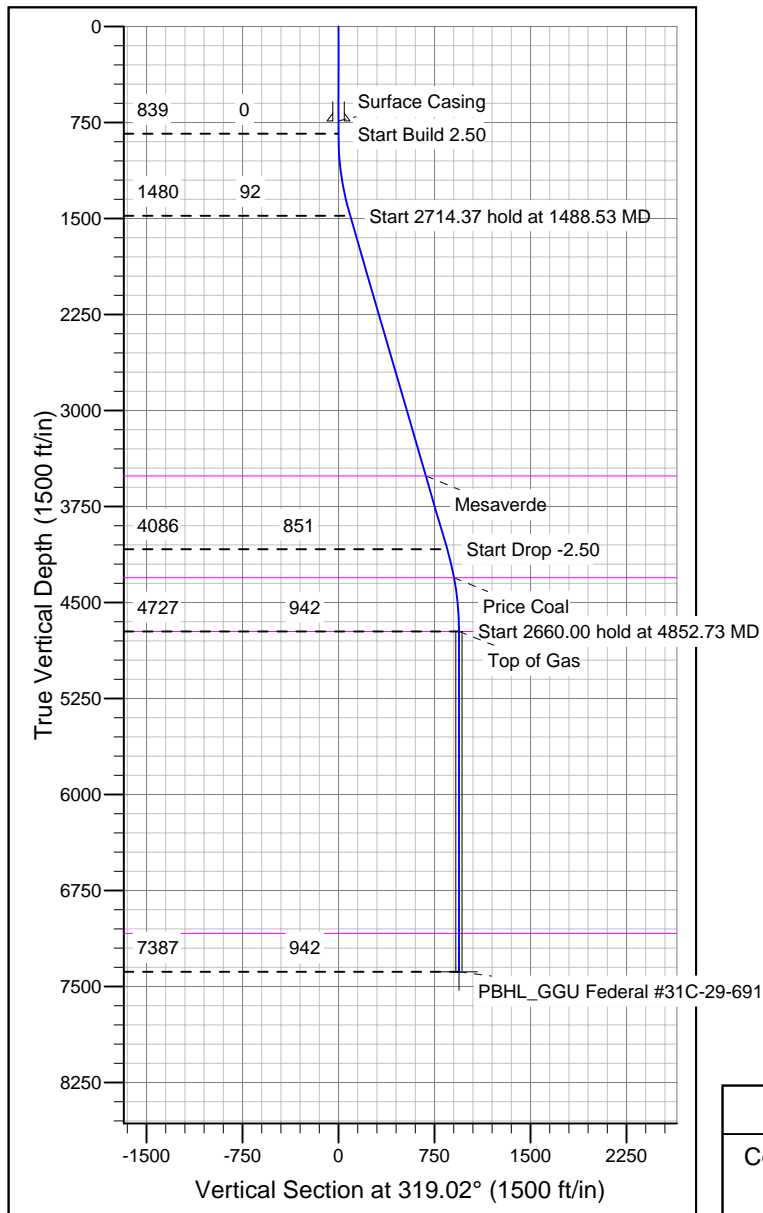
Azimuths to Grid North
 True North: 1.31°
 Magnetic North: 11.64°
 Magnetic Field
 Strength: 52532.1snT
 Dip Angle: 65.87°
 Date: 12/31/2009
 Model: IGRF200510

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	38.70	0.00	0.00	838.70	0.00	0.00	0.00	0.00	0.00	
3	88.53	16.25	319.02	1479.85	69.08	-60.01	2.50	319.02	91.51	
4	02.90	16.25	319.02	4085.85	642.35	-558.00	0.00	0.00	850.87	
5	52.73	0.00	0.00	4727.00	711.44	-618.01	2.50	180.00	942.38	
6	12.73	0.00	0.00	7387.00	711.44	-618.01	0.00	0.00	942.38	PBHL_GGU Federal #31C-29-691

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL_GGU Federal #31C-29-691	7387.00	429.60	18.01	Circle (Radius: 25.00)



CASING DETAILS

TVD	MD	Name	Size
738.70	38.70	Surface Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3512.00	3605.19	Mesaverde
4307.00	4430.34	Price Coal
4727.00	4852.73	Top of Gas
7087.00	7212.73	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal #31C-29-691, Grid North
 Vertical (TVD) Reference: WELL @ 0.00ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 0.00ft (Original Well Elev)
 Calculation Method: Minimum Curvature