

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #11

GGU Federal #31A-29-691

GGU Federal #31A-29-691

Plan: Design #1

Standard Planning Report

28 April, 2010

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #31A-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 #31A-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31A-29-691		
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 #31A-29-691					
Well Position	+N-S	21.00 ft	Northing:	1,614,699.471 ft	Latitude:	39° 30' 10.080 N
	+E/-W	-77.92 ft	Easting:	2,415,007.752 ft	Longitude:	107° 34' 24.0500 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft

Wellbore	GGU Federal #31A-29-691				
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	276.60

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	
840.70	0.00	0.00	840.70	0.00	0.00	0.00	0.00	0.00	0.00	
1,251.53	10.27	276.60	1,249.34	4.22	-36.48	2.50	2.50	0.00	276.60	
4,411.19	10.27	276.60	4,358.36	68.94	-596.12	0.00	0.00	0.00	0.00	
4,822.02	0.00	0.00	4,767.00	73.16	-632.60	2.50	-2.50	0.00	180.00	
7,462.02	0.00	0.00	7,407.00	73.16	-632.60	0.00	0.00	0.00	0.00	0.00 PBHL_GGU Feder

BBC
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #31A-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 #31A-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31A-29-691		
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	
740.70	0.00	0.00	740.70	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	
840.70	0.00	0.00	840.70	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	1.48	276.60	899.99	0.09	-0.76	0.77	2.50	2.50	0.00	
1,000.00	3.98	276.60	999.87	0.64	-5.50	5.53	2.50	2.50	0.00	
1,100.00	6.48	276.60	1,099.45	1.68	-14.56	14.65	2.50	2.50	0.00	
1,200.00	8.98	276.60	1,198.53	3.23	-27.92	28.11	2.50	2.50	0.00	
1,251.53	10.27	276.60	1,249.34	4.22	-36.48	36.72	2.50	2.50	0.00	
1,300.00	10.27	276.60	1,297.03	5.21	-45.07	45.37	0.00	0.00	0.00	
1,400.00	10.27	276.60	1,395.42	7.26	-62.78	63.20	0.00	0.00	0.00	
1,500.00	10.27	276.60	1,493.82	9.31	-80.49	81.03	0.00	0.00	0.00	
1,600.00	10.27	276.60	1,592.22	11.36	-98.20	98.86	0.00	0.00	0.00	
1,700.00	10.27	276.60	1,690.62	13.40	-115.91	116.69	0.00	0.00	0.00	
1,800.00	10.27	276.60	1,789.01	15.45	-133.63	134.52	0.00	0.00	0.00	
1,900.00	10.27	276.60	1,887.41	17.50	-151.34	152.35	0.00	0.00	0.00	
2,000.00	10.27	276.60	1,985.81	19.55	-169.05	170.18	0.00	0.00	0.00	
2,100.00	10.27	276.60	2,084.21	21.60	-186.76	188.01	0.00	0.00	0.00	
2,200.00	10.27	276.60	2,182.61	23.65	-204.47	205.84	0.00	0.00	0.00	
2,300.00	10.27	276.60	2,281.00	25.69	-222.19	223.67	0.00	0.00	0.00	
2,400.00	10.27	276.60	2,379.40	27.74	-239.90	241.50	0.00	0.00	0.00	
2,500.00	10.27	276.60	2,477.80	29.79	-257.61	259.33	0.00	0.00	0.00	
2,600.00	10.27	276.60	2,576.20	31.84	-275.32	277.16	0.00	0.00	0.00	
2,700.00	10.27	276.60	2,674.59	33.89	-293.03	294.99	0.00	0.00	0.00	
2,800.00	10.27	276.60	2,772.99	35.94	-310.75	312.82	0.00	0.00	0.00	
2,900.00	10.27	276.60	2,871.39	37.98	-328.46	330.65	0.00	0.00	0.00	
3,000.00	10.27	276.60	2,969.79	40.03	-346.17	348.48	0.00	0.00	0.00	
3,100.00	10.27	276.60	3,068.18	42.08	-363.88	366.31	0.00	0.00	0.00	
3,200.00	10.27	276.60	3,166.58	44.13	-381.59	384.14	0.00	0.00	0.00	
3,300.00	10.27	276.60	3,264.98	46.18	-399.31	401.97	0.00	0.00	0.00	
3,400.00	10.27	276.60	3,363.38	48.22	-417.02	419.80	0.00	0.00	0.00	
3,500.00	10.27	276.60	3,461.77	50.27	-434.73	437.63	0.00	0.00	0.00	
3,545.96	10.27	276.60	3,507.00	51.21	-442.87	445.82	0.00	0.00	0.00	
Mesaverde										
3,600.00	10.27	276.60	3,560.17	52.32	-452.44	455.46	0.00	0.00	0.00	
3,700.00	10.27	276.60	3,658.57	54.37	-470.15	473.29	0.00	0.00	0.00	
3,800.00	10.27	276.60	3,756.97	56.42	-487.87	491.12	0.00	0.00	0.00	
3,900.00	10.27	276.60	3,855.36	58.47	-505.58	508.95	0.00	0.00	0.00	
4,000.00	10.27	276.60	3,953.76	60.51	-523.29	526.78	0.00	0.00	0.00	
4,100.00	10.27	276.60	4,052.16	62.56	-541.00	544.61	0.00	0.00	0.00	
4,200.00	10.27	276.60	4,150.56	64.61	-558.71	562.44	0.00	0.00	0.00	
4,300.00	10.27	276.60	4,248.95	66.66	-576.43	580.27	0.00	0.00	0.00	
4,358.99	10.27	276.60	4,307.00	67.87	-586.87	590.79	0.00	0.00	0.00	
Price Coal										
4,400.00	10.27	276.60	4,347.35	68.71	-594.14	598.10	0.00	0.00	0.00	

BBC
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Site:	MDP #11	North Reference:	Grid
Well:	GGU Federal #31A-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31A-29-691		
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)
4,411.19	10.27	276.60	4,358.36	68.94	-596.12	600.09	0.00	0.00	0.00
4,500.00	8.05	276.60	4,446.04	70.56	-610.16	614.23	2.50	-2.50	0.00
4,600.00	5.55	276.60	4,545.32	71.92	-621.93	626.07	2.50	-2.50	0.00
4,700.00	3.05	276.60	4,645.03	72.78	-629.37	633.57	2.50	-2.50	0.00
4,800.00	0.55	276.60	4,744.98	73.14	-632.50	636.71	2.50	-2.50	0.00
4,822.02	0.00	0.00	4,767.00	73.16	-632.60	636.82	2.50	-2.50	0.00
Top of Gas									
4,900.00	0.00	0.00	4,844.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,000.00	0.00	0.00	4,944.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,100.00	0.00	0.00	5,044.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,200.00	0.00	0.00	5,144.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,300.00	0.00	0.00	5,244.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,400.00	0.00	0.00	5,344.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,500.00	0.00	0.00	5,444.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,600.00	0.00	0.00	5,544.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,700.00	0.00	0.00	5,644.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,800.00	0.00	0.00	5,744.98	73.16	-632.60	636.82	0.00	0.00	0.00
5,900.00	0.00	0.00	5,844.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,000.00	0.00	0.00	5,944.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,100.00	0.00	0.00	6,044.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,200.00	0.00	0.00	6,144.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,300.00	0.00	0.00	6,244.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,400.00	0.00	0.00	6,344.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,500.00	0.00	0.00	6,444.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,600.00	0.00	0.00	6,544.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,700.00	0.00	0.00	6,644.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,800.00	0.00	0.00	6,744.98	73.16	-632.60	636.82	0.00	0.00	0.00
6,900.00	0.00	0.00	6,844.98	73.16	-632.60	636.82	0.00	0.00	0.00
7,000.00	0.00	0.00	6,944.98	73.16	-632.60	636.82	0.00	0.00	0.00
7,100.00	0.00	0.00	7,044.98	73.16	-632.60	636.82	0.00	0.00	0.00
7,162.02	0.00	0.00	7,107.00	73.16	-632.60	636.82	0.00	0.00	0.00
Rollins									
7,200.00	0.00	0.00	7,144.98	73.16	-632.60	636.82	0.00	0.00	0.00
7,300.00	0.00	0.00	7,244.98	73.16	-632.60	636.82	0.00	0.00	0.00
7,400.00	0.00	0.00	7,344.98	73.16	-632.60	636.82	0.00	0.00	0.00
7,462.02	0.00	0.00	7,407.00	73.16	-632.60	636.82	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
740.70	740.70	Surface Casing	9-5/8	12-1/4

BBC

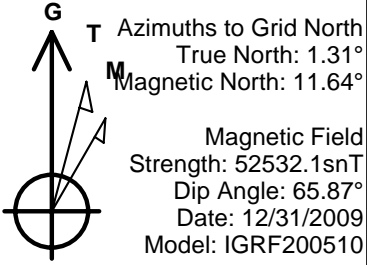
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #31A-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 #31A-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #31A-29-691		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,545.96	3,507.00	Mesaverde		0.00		
4,358.99	4,307.00	Price Coal		0.00		
4,822.02	4,767.00	Top of Gas		0.00		
7,162.02	7,107.00	Rollins		0.00		

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

Ground Level: 0.00
 +N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1614699.471 2415007.732 30' 10.067' N 104' 24.0500 W

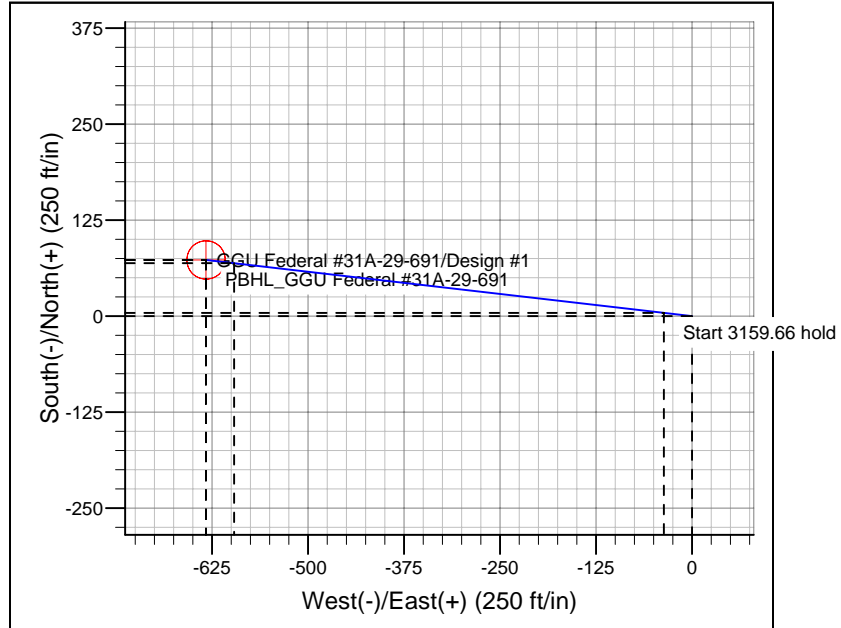
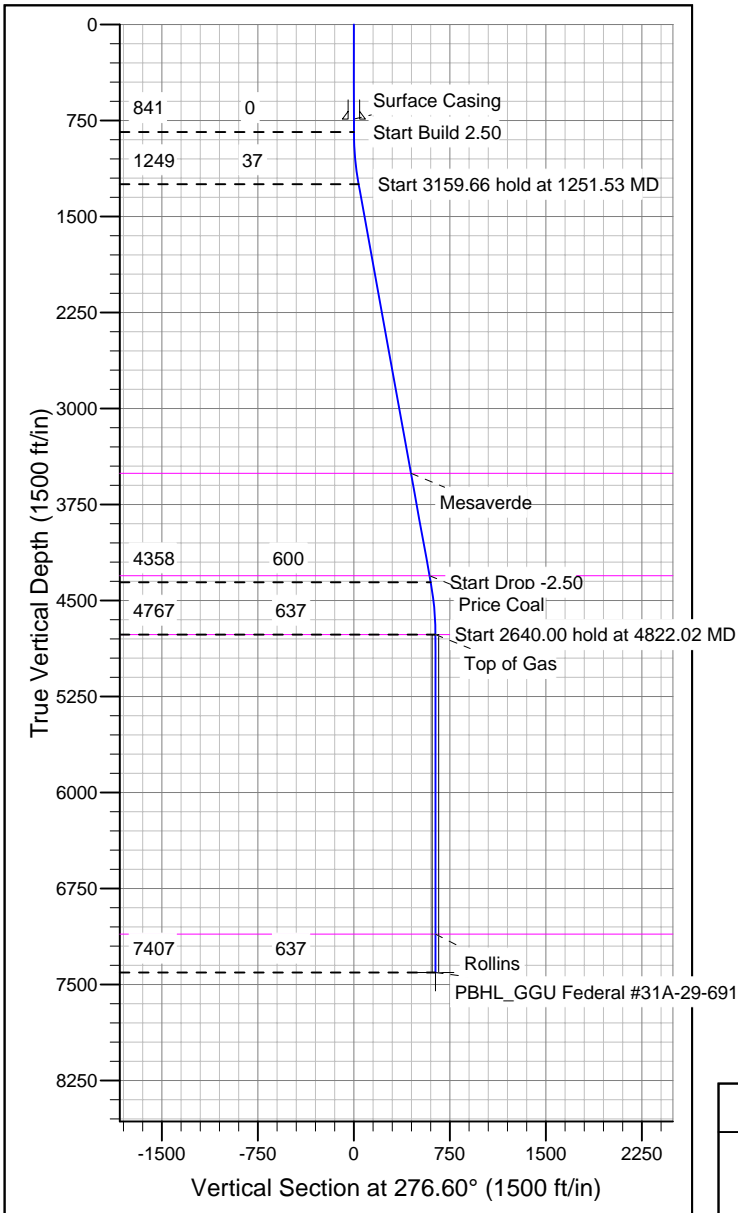


SECTION DETAILS

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	
	840.70	0.00	0.00	840.70	0.00	0.00	0.00	0.00	0.00	
	1251.53	10.27	276.60	1249.34	4.22	-36.48	2.50	276.60	36.72	
	4111.19	10.27	276.60	4358.36	68.94	-596.12	0.00	0.00	600.09	
	4822.02	0.00	0.00	4767.00	73.16	-632.60	2.50	180.00	636.82	
	7162.02	0.00	0.00	7407.00	73.16	-632.60	0.00	0.00	636.82	PBHL_GGU Federal #31A-29-691

WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape
 PBHL_GGU Federal #31A-29-691 7407.00 73.16 -632.60 Circle (Radius: 25.00)



CASING DETAILS

TVD MD Name Size
 740.70 740.70 Surface Casing 9-5/8

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3507.00	3545.96	Mesaverde
4307.00	4358.99	Price Coal
4767.00	4822.02	Top of Gas
7107.00	7162.02	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal #31A-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