

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #11

GGU Federal #42C-29-691

GGU Federal #42C-29-691

Plan: Design #1

Standard Planning Report

28 April, 2010

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #42C-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 #42C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #42C-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 #42C-29-691		
Well Position	+N/-S	2.78 ft	Northing:
	+E/-W	-33.65 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	GGU Federal #42C-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	131.47

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	
841.70	0.00	0.00	841.70	0.00	0.00	0.00	0.00	0.00	0.00	
1,410.20	14.21	131.47	1,404.39	-46.46	52.56	2.50	2.50	0.00	131.47	
4,339.79	14.21	131.47	4,244.31	-522.82	591.47	0.00	0.00	0.00	0.00	
4,908.29	0.00	0.00	4,807.00	-569.28	644.03	2.50	-2.50	0.00	180.00	
7,518.29	0.00	0.00	7,417.00	-569.28	644.03	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 #42C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #42C-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
741.70	0.00	0.00	741.70	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
841.70	0.00	0.00	841.70	0.00	0.00	0.00	0.00	0.00	0.00
900.00	1.46	131.47	899.99	-0.49	0.56	0.74	2.50	2.50	0.00
1,000.00	3.96	131.47	999.87	-3.62	4.09	5.46	2.50	2.50	0.00
1,100.00	6.46	131.47	1,099.45	-9.63	10.89	14.54	2.50	2.50	0.00
1,200.00	8.96	131.47	1,198.54	-18.51	20.94	27.95	2.50	2.50	0.00
1,300.00	11.46	131.47	1,296.95	-30.25	34.22	45.67	2.50	2.50	0.00
1,400.00	13.96	131.47	1,394.49	-44.81	50.70	67.67	2.50	2.50	0.00
1,410.20	14.21	131.47	1,404.39	-46.46	52.56	70.15	2.50	2.50	0.00
1,500.00	14.21	131.47	1,491.44	-61.06	69.08	92.20	0.00	0.00	0.00
1,600.00	14.21	131.47	1,588.38	-77.32	87.47	116.75	0.00	0.00	0.00
1,700.00	14.21	131.47	1,685.32	-93.58	105.87	141.30	0.00	0.00	0.00
1,800.00	14.21	131.47	1,782.26	-109.84	124.26	165.85	0.00	0.00	0.00
1,900.00	14.21	131.47	1,879.20	-126.10	142.66	190.40	0.00	0.00	0.00
2,000.00	14.21	131.47	1,976.14	-142.36	161.06	214.96	0.00	0.00	0.00
2,100.00	14.21	131.47	2,073.07	-158.62	179.45	239.51	0.00	0.00	0.00
2,200.00	14.21	131.47	2,170.01	-174.88	197.85	264.06	0.00	0.00	0.00
2,300.00	14.21	131.47	2,266.95	-191.14	216.24	288.61	0.00	0.00	0.00
2,400.00	14.21	131.47	2,363.89	-207.40	234.64	313.16	0.00	0.00	0.00
2,500.00	14.21	131.47	2,460.83	-223.66	253.03	337.71	0.00	0.00	0.00
2,600.00	14.21	131.47	2,557.77	-239.92	271.43	362.27	0.00	0.00	0.00
2,700.00	14.21	131.47	2,654.71	-256.18	289.82	386.82	0.00	0.00	0.00
2,800.00	14.21	131.47	2,751.65	-272.44	308.22	411.37	0.00	0.00	0.00
2,900.00	14.21	131.47	2,848.59	-288.70	326.61	435.92	0.00	0.00	0.00
3,000.00	14.21	131.47	2,945.53	-304.97	345.01	460.47	0.00	0.00	0.00
3,100.00	14.21	131.47	3,042.47	-321.23	363.41	485.03	0.00	0.00	0.00
3,200.00	14.21	131.47	3,139.41	-337.49	381.80	509.58	0.00	0.00	0.00
3,300.00	14.21	131.47	3,236.34	-353.75	400.20	534.13	0.00	0.00	0.00
3,400.00	14.21	131.47	3,333.28	-370.01	418.59	558.68	0.00	0.00	0.00
3,500.00	14.21	131.47	3,430.22	-386.27	436.99	583.23	0.00	0.00	0.00
3,563.73	14.21	131.47	3,492.00	-396.63	448.71	598.88	0.00	0.00	0.00
Mesaverde									
3,600.00	14.21	131.47	3,527.16	-402.53	455.38	607.78	0.00	0.00	0.00
3,700.00	14.21	131.47	3,624.10	-418.79	473.78	632.34	0.00	0.00	0.00
3,800.00	14.21	131.47	3,721.04	-435.05	492.17	656.89	0.00	0.00	0.00
3,900.00	14.21	131.47	3,817.98	-451.31	510.57	681.44	0.00	0.00	0.00
4,000.00	14.21	131.47	3,914.92	-467.57	528.96	705.99	0.00	0.00	0.00
4,100.00	14.21	131.47	4,011.86	-483.83	547.36	730.54	0.00	0.00	0.00
4,200.00	14.21	131.47	4,108.80	-500.09	565.76	755.09	0.00	0.00	0.00
4,300.00	14.21	131.47	4,205.74	-516.35	584.15	779.65	0.00	0.00	0.00
4,339.79	14.21	131.47	4,244.31	-522.82	591.47	789.42	0.00	0.00	0.00
4,393.99	12.86	131.47	4,297.00	-531.22	600.97	802.10	2.50	-2.50	0.00
Price Coal									

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 #42C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #42C-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)
4,400.00	12.71	131.47	4,302.86	-532.10	601.97	803.43	2.50	-2.50	0.00
4,500.00	10.21	131.47	4,400.86	-545.26	616.85	823.29	2.50	-2.50	0.00
4,600.00	7.71	131.47	4,499.64	-555.57	628.52	838.86	2.50	-2.50	0.00
4,700.00	5.21	131.47	4,598.99	-563.01	636.94	850.11	2.50	-2.50	0.00
4,800.00	2.71	131.47	4,698.75	-567.58	642.11	857.01	2.50	-2.50	0.00
4,900.00	0.21	131.47	4,798.71	-569.27	644.02	859.55	2.50	-2.50	0.00
4,908.29	0.00	0.00	4,807.00	-569.28	644.03	859.57	2.50	-2.50	0.00
Top of Gas									
5,000.00	0.00	0.00	4,898.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,100.00	0.00	0.00	4,998.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,200.00	0.00	0.00	5,098.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,300.00	0.00	0.00	5,198.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,400.00	0.00	0.00	5,298.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,500.00	0.00	0.00	5,398.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,600.00	0.00	0.00	5,498.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,700.00	0.00	0.00	5,598.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,800.00	0.00	0.00	5,698.71	-569.28	644.03	859.57	0.00	0.00	0.00
5,900.00	0.00	0.00	5,798.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,000.00	0.00	0.00	5,898.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,100.00	0.00	0.00	5,998.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,200.00	0.00	0.00	6,098.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,300.00	0.00	0.00	6,198.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,400.00	0.00	0.00	6,298.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,500.00	0.00	0.00	6,398.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,600.00	0.00	0.00	6,498.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,700.00	0.00	0.00	6,598.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,800.00	0.00	0.00	6,698.71	-569.28	644.03	859.57	0.00	0.00	0.00
6,900.00	0.00	0.00	6,798.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,000.00	0.00	0.00	6,898.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,100.00	0.00	0.00	6,998.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,200.00	0.00	0.00	7,098.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,218.29	0.00	0.00	7,117.00	-569.28	644.03	859.57	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,198.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,400.00	0.00	0.00	7,298.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,500.00	0.00	0.00	7,398.71	-569.28	644.03	859.57	0.00	0.00	0.00
7,518.29	0.00	0.00	7,417.00	-569.28	644.03	859.57	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
741.70	741.70	Surface Casing	9-5/8	12-1/4

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal #42C-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 #42C-29-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	GGU Federal #42C-29-691		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,563.73	3,492.00	Mesaverde		0.00		
4,393.99	4,297.00	Price Coal		0.00		
4,908.29	4,807.00	Top of Gas		0.00		
7,218.29	7,117.00	Rollins		0.00		

WELL DETAILS: GGU Federal #42C-29-691

Ground Level: 0.00
 +N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1614681.251 2415052.029 30° 30' 9.907"N 104° 23.4800 W



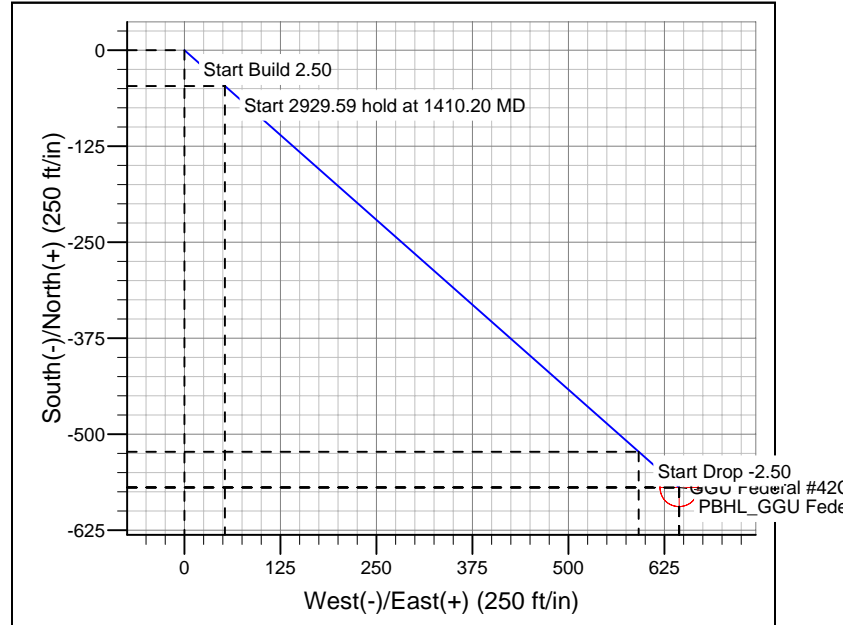
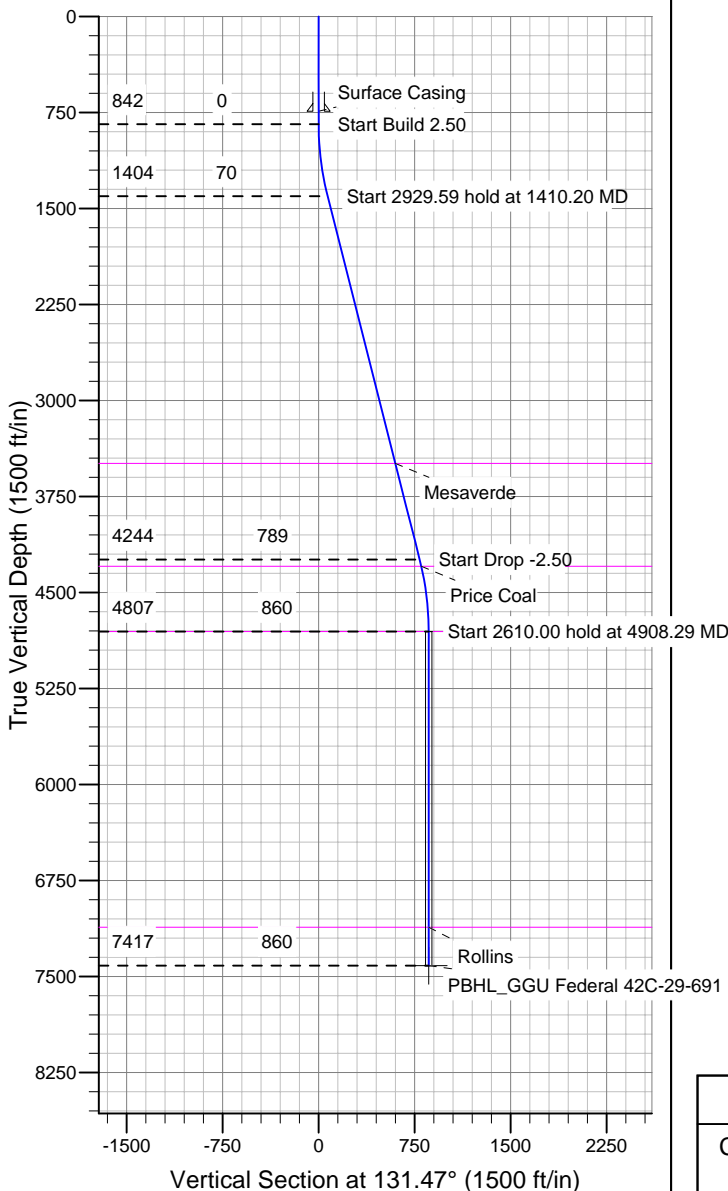
Azimuths to Grid North
 True North: 1.31°
 Magnetic North: 11.64°
 Magnetic Field
 Strength: 52532.0snT
 Dip Angle: 65.87°
 Date: 12/31/2009
 Model: IGRF200510

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	741.70	0.00	0.00	841.70	0.00	0.00	0.00	0.00	0.00	
3	1410.20	14.21	131.47	1404.39	-46.46	52.56	2.50	131.47	70.15	
4	2929.59	14.21	131.47	2929.59	-522.82	591.47	0.00	0.00	789.42	
5	4908.29	0.00	0.00	4807.00	-569.28	644.03	2.50	180.00	859.57	
6	7117.00	0.00	0.00	7117.00	-569.28	644.03	0.00	0.00	859.57	PBHL_GGU Federal 42C-29-691

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL_GGU Federal 42C-29-691	4908.29	-46.46	52.56	Circle (Radius: 25.00)



CASING DETAILS

TVD	MD	Name	Size
741.70	741.70	Surface Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3492.00	3563.73	Mesaverde
4297.00	4393.99	Price Coal
4807.00	4908.29	Top of Gas
7117.00	7218.29	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal #42C-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