

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #3

GGU Barge FED 32A-32-691


Wellbore #1

Plan: Design #1

Standard Planning Report

23 December, 2009

WELL DETAILS: GGU Barge FED 32A-32-691						
				Ground Level:	0.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1608604.950	2413060.256	39° 29' 9.4200" N	107° 34' 47.1100 W	
				Slot		

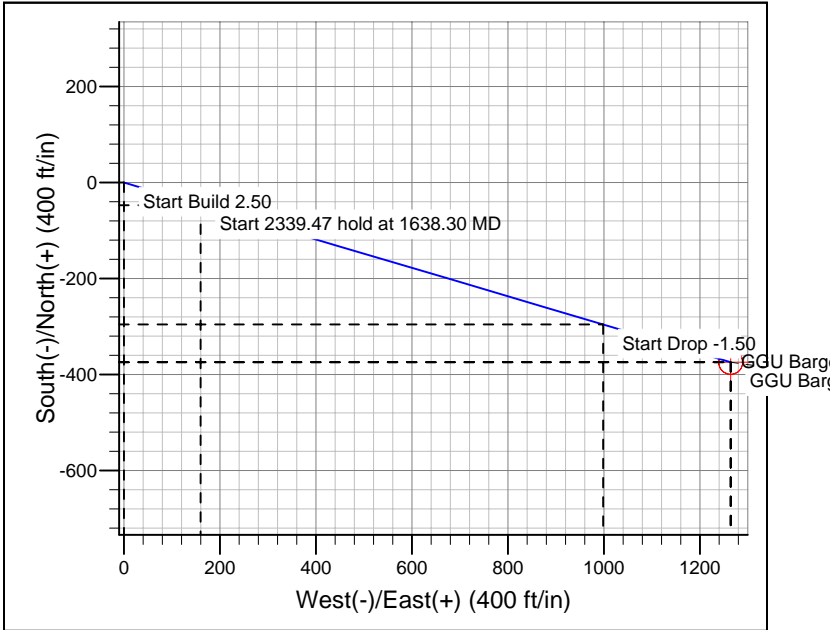
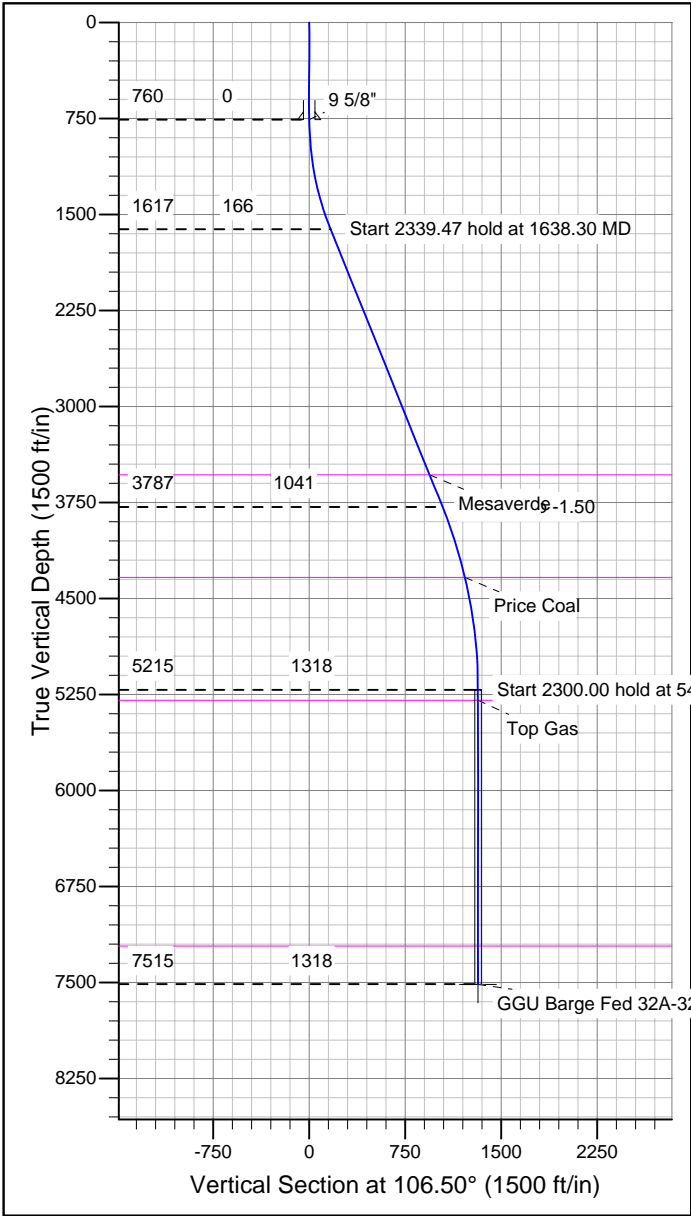


Azimuths to True North
Magnetic North: 13.41°

1
Magnetic Field
Strength: 52474.7 nT
Dip Angle: 65.84°
Date: 12/23/2009
Model: BGGM2007

SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00		
1638.30	21.96	106.50	1616.96	-47.21	159.40	2.50	106.50	166.25		
3787.78	21.96	106.50	3786.73	-295.63	998.16	0.00	0.00	1041.02		
5441.61	0.00	0.00	5215.00	-374.31	1263.83	1.50	180.00	1318.10		
7441.61	0.00	0.00	7515.00	-374.31	1263.83	0.00	0.00	1318.10	GGU Barge Fed 32A-32-691 TD	

WELLBORE TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Shape	
GGU Barge Fed 32A-32-691 TD	7515.00	-374.31	1263.83	Circle (Radius: 25.00)	



CASING DETAILS			
TVD	MD	Name	Size
760.00	760.00	9 5/8"	9-5/8

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3535.00	3706.36	Mesaverde
4335.00	4553.64	Price Coal
5295.00	5521.61	Top Gas
7215.00	7441.61	Rollins

REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well GGU Barge FED 32A-32-691, True 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

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 32A-32-691
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 #3	North Reference:	True
Well:	GGU Barge FED 32A-32-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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 #3		
Site Position:		Northing:	1,608,604.964 ft
From:	Lat/Long	Easting:	2,413,060.256 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	39° 29' 9.420 N
		Longitude:	107° 34' 47.1100 W
		Grid Convergence:	-1.31 °

Well	GGU Barge FED 32A-32-691		
Well Position	+N/-S	-0.01 ft	Northing: 1,608,604.950 ft
	+E/-W	0.00 ft	Easting: 2,413,060.256 ft
Position Uncertainty		0.00 ft	Wellhead Elevation: ft
			Latitude: 39° 29' 9.420 N
			Longitude: 107° 34' 47.1100 W
			Ground Level: 0.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	12/23/2009	10.41	65.84	52,475

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	106.50

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	
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,638.30	21.96	106.50	1,616.96	-47.21	159.40	2.50	2.50	0.00	106.50	
3,977.78	21.96	106.50	3,786.73	-295.63	998.16	0.00	0.00	0.00	0.00	
5,441.61	0.00	0.00	5,215.00	-374.31	1,263.83	1.50	-1.50	0.00	180.00	
7,741.61	0.00	0.00	7,515.00	-374.31	1,263.83	0.00	0.00	0.00	0.00	GGU Barge Fed 32

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 32A-32-691
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 #3	North Reference:	True
Well:	GGU Barge FED 32A-32-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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
760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	1.00	106.50	800.00	-0.10	0.33	0.35	2.50	2.50	0.00
900.00	3.50	106.50	899.91	-1.21	4.10	4.27	2.50	2.50	0.00
1,000.00	6.00	106.50	999.56	-3.57	12.04	12.55	2.50	2.50	0.00
1,100.00	8.50	106.50	1,098.75	-7.15	24.14	25.17	2.50	2.50	0.00
1,200.00	11.00	106.50	1,197.30	-11.96	40.37	42.11	2.50	2.50	0.00
1,300.00	13.50	106.50	1,295.02	-17.98	60.72	63.32	2.50	2.50	0.00
1,400.00	16.00	106.50	1,391.71	-25.21	85.13	88.78	2.50	2.50	0.00
1,500.00	18.50	106.50	1,487.21	-33.63	113.56	118.43	2.50	2.50	0.00
1,600.00	21.00	106.50	1,581.32	-43.23	145.96	152.22	2.50	2.50	0.00
1,638.30	21.96	106.50	1,616.96	-47.21	159.40	166.25	2.50	2.50	0.00
1,700.00	21.96	106.50	1,674.18	-53.76	181.52	189.32	0.00	0.00	0.00
1,800.00	21.96	106.50	1,766.93	-64.38	217.37	226.71	0.00	0.00	0.00
1,900.00	21.96	106.50	1,859.68	-75.00	253.23	264.10	0.00	0.00	0.00
2,000.00	21.96	106.50	1,952.42	-85.62	289.08	301.49	0.00	0.00	0.00
2,100.00	21.96	106.50	2,045.17	-96.24	324.93	338.88	0.00	0.00	0.00
2,200.00	21.96	106.50	2,137.91	-106.85	360.78	376.28	0.00	0.00	0.00
2,300.00	21.96	106.50	2,230.66	-117.47	396.64	413.67	0.00	0.00	0.00
2,400.00	21.96	106.50	2,323.41	-128.09	432.49	451.06	0.00	0.00	0.00
2,500.00	21.96	106.50	2,416.15	-138.71	468.34	488.45	0.00	0.00	0.00
2,600.00	21.96	106.50	2,508.90	-149.33	504.19	525.84	0.00	0.00	0.00
2,700.00	21.96	106.50	2,601.64	-159.95	540.05	563.24	0.00	0.00	0.00
2,800.00	21.96	106.50	2,694.39	-170.57	575.90	600.63	0.00	0.00	0.00
2,900.00	21.96	106.50	2,787.14	-181.18	611.75	638.02	0.00	0.00	0.00
3,000.00	21.96	106.50	2,879.88	-191.80	647.60	675.41	0.00	0.00	0.00
3,100.00	21.96	106.50	2,972.63	-202.42	683.46	712.80	0.00	0.00	0.00
3,200.00	21.96	106.50	3,065.38	-213.04	719.31	750.20	0.00	0.00	0.00
3,300.00	21.96	106.50	3,158.12	-223.66	755.16	787.59	0.00	0.00	0.00
3,400.00	21.96	106.50	3,250.87	-234.28	791.01	824.98	0.00	0.00	0.00
3,500.00	21.96	106.50	3,343.61	-244.90	826.87	862.37	0.00	0.00	0.00
3,600.00	21.96	106.50	3,436.36	-255.51	862.72	899.76	0.00	0.00	0.00
3,700.00	21.96	106.50	3,529.11	-266.13	898.57	937.15	0.00	0.00	0.00
3,706.36	21.96	106.50	3,535.00	-266.81	900.85	939.53	0.00	0.00	0.00
Mesaverde									
3,800.00	21.96	106.50	3,621.85	-276.75	934.42	974.55	0.00	0.00	0.00
3,900.00	21.96	106.50	3,714.60	-287.37	970.28	1,011.94	0.00	0.00	0.00
3,977.78	21.96	106.50	3,786.73	-295.63	998.16	1,041.02	0.00	0.00	0.00
4,000.00	21.62	106.50	3,807.37	-297.97	1,006.07	1,049.27	1.50	-1.50	0.00
4,100.00	20.12	106.50	3,900.80	-308.09	1,040.24	1,084.90	1.50	-1.50	0.00
4,200.00	18.62	106.50	3,995.14	-317.51	1,072.04	1,118.07	1.50	-1.50	0.00
4,300.00	17.12	106.50	4,090.31	-326.23	1,101.47	1,148.77	1.50	-1.50	0.00
4,400.00	15.62	106.50	4,186.25	-334.23	1,128.50	1,176.96	1.50	-1.50	0.00
4,500.00	14.12	106.50	4,282.89	-341.52	1,153.11	1,202.62	1.50	-1.50	0.00
4,553.64	13.32	106.50	4,335.00	-345.13	1,165.31	1,215.35	1.50	-1.50	0.00

BBC

Planning Report

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Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #3	North Reference:	True
Well:	GGU Barge FED 32A-32-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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									
4,600.00	12.62	106.50	4,380.18	-348.09	1,175.29	1,225.75	1.50	-1.50	0.00
4,700.00	11.12	106.50	4,478.04	-353.93	1,195.02	1,246.33	1.50	-1.50	0.00
4,800.00	9.62	106.50	4,576.40	-359.05	1,212.29	1,264.34	1.50	-1.50	0.00
4,900.00	8.12	106.50	4,675.20	-363.43	1,227.08	1,279.76	1.50	-1.50	0.00
5,000.00	6.62	106.50	4,774.37	-367.07	1,239.38	1,292.60	1.50	-1.50	0.00
5,100.00	5.12	106.50	4,873.84	-369.98	1,249.20	1,302.83	1.50	-1.50	0.00
5,200.00	3.62	106.50	4,973.55	-372.14	1,256.51	1,310.46	1.50	-1.50	0.00
5,300.00	2.12	106.50	5,073.42	-373.57	1,261.32	1,315.47	1.50	-1.50	0.00
5,400.00	0.62	106.50	5,173.39	-374.25	1,263.62	1,317.87	1.50	-1.50	0.00
5,441.61	0.00	0.00	5,215.00	-374.31	1,263.83	1,318.10	1.50	-1.50	0.00
5,500.00	0.00	0.00	5,273.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
5,521.61	0.00	0.00	5,295.00	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
Top Gas									
5,600.00	0.00	0.00	5,373.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
5,700.00	0.00	0.00	5,473.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
5,800.00	0.00	0.00	5,573.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
5,900.00	0.00	0.00	5,673.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,000.00	0.00	0.00	5,773.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,100.00	0.00	0.00	5,873.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,200.00	0.00	0.00	5,973.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,300.00	0.00	0.00	6,073.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,400.00	0.00	0.00	6,173.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,500.00	0.00	0.00	6,273.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,600.00	0.00	0.00	6,373.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,700.00	0.00	0.00	6,473.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,800.00	0.00	0.00	6,573.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
6,900.00	0.00	0.00	6,673.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,000.00	0.00	0.00	6,773.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,100.00	0.00	0.00	6,873.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,200.00	0.00	0.00	6,973.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,300.00	0.00	0.00	7,073.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,400.00	0.00	0.00	7,173.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,441.61	0.00	0.00	7,215.00	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
Rollins									
7,500.00	0.00	0.00	7,273.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,600.00	0.00	0.00	7,373.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,700.00	0.00	0.00	7,473.39	-374.31	1,263.83	1,318.10	0.00	0.00	0.00
7,741.61	0.00	0.00	7,515.00	-374.31	1,263.83	1,318.10	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
760.00	760.00	9 5/8"	9-5/8	12-1/4

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 32A-32-691
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 #3	North Reference:	True
Well:	GGU Barge FED 32A-32-691	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,706.36	3,535.00	Mesaverde		0.00		
4,553.64	4,335.00	Price Coal		0.00		
5,521.61	5,295.00	Top Gas		0.00		
7,441.61	7,215.00	Rollins		0.00		