

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #3

GGU Barge FED 32C-32-691


Wellbore #1

Plan: Design #1

Standard Planning Report

23 December, 2009

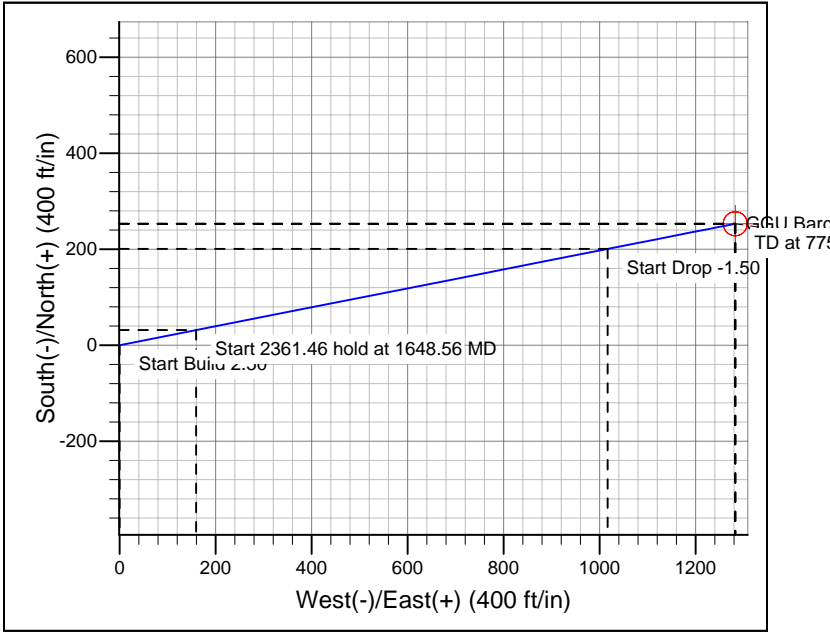
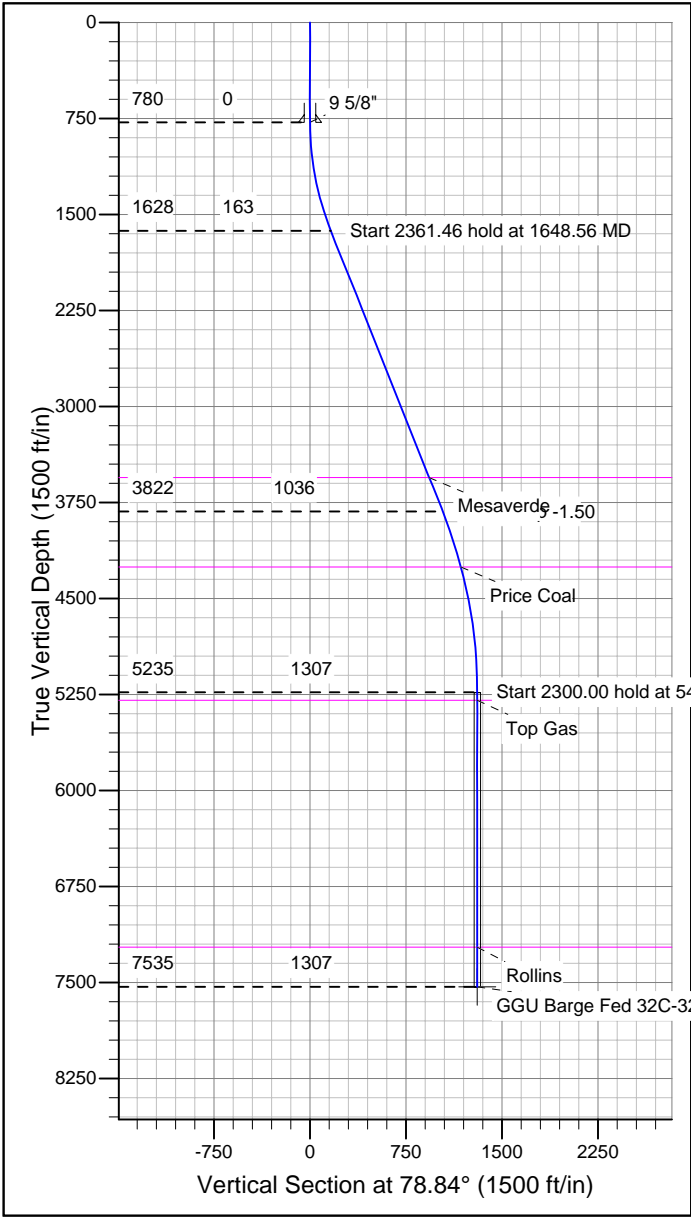
WELL DETAILS: GGU Barge FED 32C-32-691							
				Ground Level:	0.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		Slot
0.00	0.00	1608627.774	2413035.684	39° 29' 9.6400" N	107° 34' 47.4300 W		



Azimuths to True North
Magnetic North: 13.41°
Magnetic Field: 1
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		
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00		
1648.56	21.71	78.84	1627.91	31.47	159.55	2.50	78.84	162.62		
3822.83	21.71	78.84	3821.81	200.54	1016.70	0.00	0.00	1036.29		
4257.61	0.00	0.00	5235.00	252.99	1282.62	1.50	180.00	1307.33		
7447.61	0.00	0.00	7535.00	252.99	1282.62	0.00	0.00	1307.33	GGU Barge Fed 32C-32-691 TD	

WELLBORE TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Shape	
GGU Barge Fed 32C-32-691 TD	7535.00	252.99	1282.62	Circle (Radius: 25.00)	



CASING DETAILS			
TVD	MD	Name	Size
780.00	780.00	9 5/8"	9-5/8

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3555.00	3722.83	Mesaverde
4255.00	4466.52	Price Coal
5295.00	5517.61	Top Gas
7225.00	7447.61	Rollins

REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well GGU Barge FED 32C-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 32C-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 32C-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 32C-32-691		
Well Position	+N/-S	22.24 ft	Northing:
	+E/-W	-25.09 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 29' 9.640 N
			Longitude:
			107° 34' 47.4300 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	78.84

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	
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,648.56	21.71	78.84	1,627.91	31.47	159.55	2.50	2.50	0.00	78.84	
4,010.01	21.71	78.84	3,821.81	200.54	1,016.70	0.00	0.00	0.00	0.00	
5,457.61	0.00	0.00	5,235.00	252.99	1,282.62	1.50	-1.50	0.00	180.00	
7,757.61	0.00	0.00	7,535.00	252.99	1,282.62	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 32C-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 32C-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
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	0.50	78.84	800.00	0.02	0.09	0.09	2.50	2.50	0.00
900.00	3.00	78.84	899.95	0.61	3.08	3.14	2.50	2.50	0.00
1,000.00	5.50	78.84	999.66	2.04	10.35	10.55	2.50	2.50	0.00
1,100.00	8.00	78.84	1,098.96	4.32	21.88	22.30	2.50	2.50	0.00
1,200.00	10.50	78.84	1,197.65	7.43	37.65	38.38	2.50	2.50	0.00
1,300.00	13.00	78.84	1,295.55	11.37	57.63	58.74	2.50	2.50	0.00
1,400.00	15.50	78.84	1,392.47	16.13	81.78	83.35	2.50	2.50	0.00
1,500.00	18.00	78.84	1,488.21	21.71	110.05	112.17	2.50	2.50	0.00
1,600.00	20.50	78.84	1,582.62	28.09	142.39	145.14	2.50	2.50	0.00
1,648.56	21.71	78.84	1,627.91	31.47	159.55	162.62	2.50	2.50	0.00
1,700.00	21.71	78.84	1,675.71	35.15	178.22	181.65	0.00	0.00	0.00
1,800.00	21.71	78.84	1,768.61	42.31	214.52	218.65	0.00	0.00	0.00
1,900.00	21.71	78.84	1,861.52	49.47	250.82	255.65	0.00	0.00	0.00
2,000.00	21.71	78.84	1,954.42	56.63	287.11	292.65	0.00	0.00	0.00
2,100.00	21.71	78.84	2,047.32	63.79	323.41	329.64	0.00	0.00	0.00
2,200.00	21.71	78.84	2,140.23	70.95	359.71	366.64	0.00	0.00	0.00
2,300.00	21.71	78.84	2,233.13	78.11	396.01	403.64	0.00	0.00	0.00
2,400.00	21.71	78.84	2,326.04	85.27	432.30	440.63	0.00	0.00	0.00
2,500.00	21.71	78.84	2,418.94	92.43	468.60	477.63	0.00	0.00	0.00
2,600.00	21.71	78.84	2,511.85	99.59	504.90	514.63	0.00	0.00	0.00
2,700.00	21.71	78.84	2,604.75	106.75	541.20	551.63	0.00	0.00	0.00
2,800.00	21.71	78.84	2,697.65	113.91	577.50	588.62	0.00	0.00	0.00
2,900.00	21.71	78.84	2,790.56	121.07	613.79	625.62	0.00	0.00	0.00
3,000.00	21.71	78.84	2,883.46	128.23	650.09	662.62	0.00	0.00	0.00
3,100.00	21.71	78.84	2,976.37	135.39	686.39	699.61	0.00	0.00	0.00
3,200.00	21.71	78.84	3,069.27	142.55	722.69	736.61	0.00	0.00	0.00
3,300.00	21.71	78.84	3,162.18	149.71	758.98	773.61	0.00	0.00	0.00
3,400.00	21.71	78.84	3,255.08	156.87	795.28	810.61	0.00	0.00	0.00
3,500.00	21.71	78.84	3,347.99	164.03	831.58	847.60	0.00	0.00	0.00
3,600.00	21.71	78.84	3,440.89	171.19	867.88	884.60	0.00	0.00	0.00
3,700.00	21.71	78.84	3,533.79	178.35	904.18	921.60	0.00	0.00	0.00
3,722.83	21.71	78.84	3,555.00	179.98	912.46	930.04	0.00	0.00	0.00
Mesaverde									
3,800.00	21.71	78.84	3,626.70	185.51	940.47	958.59	0.00	0.00	0.00
3,900.00	21.71	78.84	3,719.60	192.67	976.77	995.59	0.00	0.00	0.00
4,000.00	21.71	78.84	3,812.51	199.83	1,013.07	1,032.59	0.00	0.00	0.00
4,010.01	21.71	78.84	3,821.81	200.54	1,016.70	1,036.29	0.00	0.00	0.00
4,100.00	20.36	78.84	3,905.80	206.79	1,048.40	1,068.60	1.50	-1.50	0.00
4,200.00	18.86	78.84	3,999.99	213.29	1,081.33	1,102.17	1.50	-1.50	0.00
4,300.00	17.36	78.84	4,095.03	219.31	1,111.83	1,133.26	1.50	-1.50	0.00
4,400.00	15.86	78.84	4,190.85	224.84	1,139.88	1,161.85	1.50	-1.50	0.00
4,466.52	14.87	78.84	4,255.00	228.25	1,157.18	1,179.47	1.50	-1.50	0.00
Price Coal									

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 32C-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 32C-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)
4,500.00	14.36	78.84	4,287.39	229.89	1,165.46	1,187.92	1.50	-1.50	0.00
4,600.00	12.86	78.84	4,384.58	234.44	1,188.56	1,211.46	1.50	-1.50	0.00
4,700.00	11.36	78.84	4,482.35	238.50	1,209.15	1,232.44	1.50	-1.50	0.00
4,800.00	9.86	78.84	4,580.64	242.07	1,227.22	1,250.86	1.50	-1.50	0.00
4,900.00	8.36	78.84	4,679.37	245.13	1,242.76	1,266.70	1.50	-1.50	0.00
5,000.00	6.86	78.84	4,778.49	247.70	1,255.76	1,279.95	1.50	-1.50	0.00
5,100.00	5.36	78.84	4,877.91	249.76	1,266.20	1,290.60	1.50	-1.50	0.00
5,200.00	3.86	78.84	4,977.59	251.31	1,274.10	1,298.65	1.50	-1.50	0.00
5,300.00	2.36	78.84	5,077.44	252.36	1,279.43	1,304.08	1.50	-1.50	0.00
5,400.00	0.86	78.84	5,177.39	252.91	1,282.19	1,306.90	1.50	-1.50	0.00
5,457.61	0.00	0.00	5,235.00	252.99	1,282.62	1,307.33	1.50	-1.50	0.00
5,500.00	0.00	0.00	5,277.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
5,517.61	0.00	0.00	5,295.00	252.99	1,282.62	1,307.33	0.00	0.00	0.00
Top Gas									
5,600.00	0.00	0.00	5,377.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
5,700.00	0.00	0.00	5,477.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
5,800.00	0.00	0.00	5,577.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
5,900.00	0.00	0.00	5,677.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,000.00	0.00	0.00	5,777.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,100.00	0.00	0.00	5,877.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,200.00	0.00	0.00	5,977.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,300.00	0.00	0.00	6,077.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,400.00	0.00	0.00	6,177.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,500.00	0.00	0.00	6,277.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,600.00	0.00	0.00	6,377.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,700.00	0.00	0.00	6,477.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,800.00	0.00	0.00	6,577.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
6,900.00	0.00	0.00	6,677.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,000.00	0.00	0.00	6,777.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,100.00	0.00	0.00	6,877.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,200.00	0.00	0.00	6,977.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,300.00	0.00	0.00	7,077.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,400.00	0.00	0.00	7,177.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,447.61	0.00	0.00	7,225.00	252.99	1,282.62	1,307.33	0.00	0.00	0.00
Rollins									
7,500.00	0.00	0.00	7,277.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,600.00	0.00	0.00	7,377.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,700.00	0.00	0.00	7,477.39	252.99	1,282.62	1,307.33	0.00	0.00	0.00
7,757.61	0.00	0.00	7,535.00	252.99	1,282.62	1,307.33	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
780.00	780.00	9 5/8"	9-5/8	12-1/4

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 32C-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 32C-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 (°)	
3,722.83	3,555.00	Mesaverde		0.00		
4,466.52	4,255.00	Price Coal		0.00		
5,517.61	5,295.00	Top Gas		0.00		
7,447.61	7,225.00	Rollins		0.00		