

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #3

GGU Barge 22C-32-691

Wellbore #1

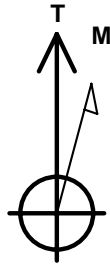
Plan: Design #1

Standard Planning Report

23 December, 2009

WELL DETAILS: GGU Barge 22C-32-691

+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.00	0.00	1608632.596	2413002.073	39° 29' 9.6800" N	107° 34' 47.8600" W		



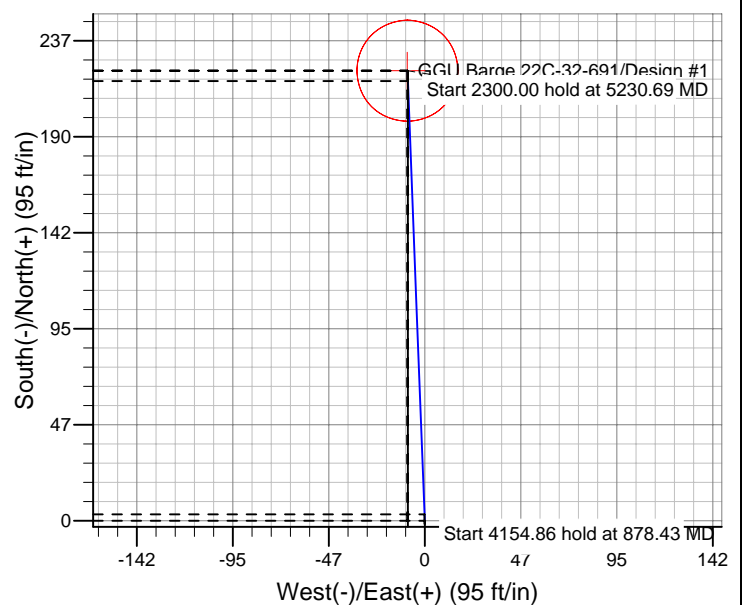
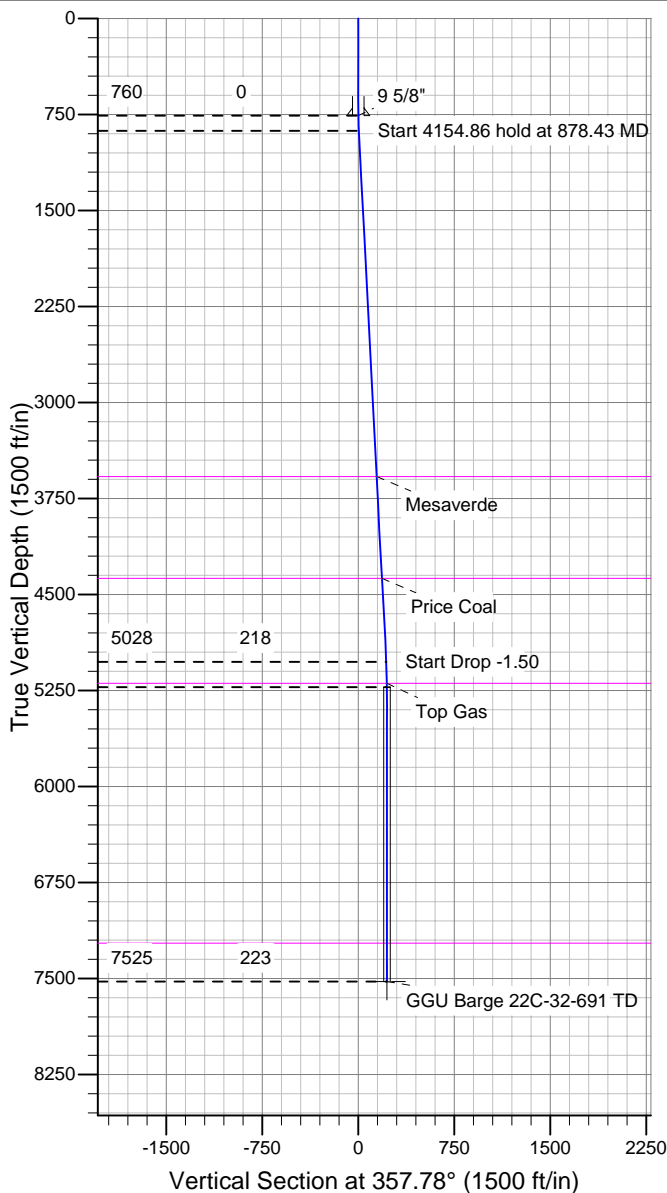
Azimuths to True North
Magnetic North: 103.48°
Magnetic Field
Strength: 52474.7snT
Dip Angle: 65.84°
Date: 12/23/2009
Model: BGGM2007

SECTION DETAILS

	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	760.00	0.00	0.00	760.00	0.00	0.00	0.00	0.00	0.00	
3	878.43	2.96	357.78	878.38	3.06	-0.12	2.50	357.78	3.06	
4	5033.30	2.96	357.78	5027.70	217.51	-8.43	0.00	0.00	217.67	
5	5230.69	0.00	0.00	5225.00	222.60	-8.62	1.50	180.00	222.77	
6	7530.69	0.00	0.00	7525.00	222.60	-8.62	0.00	0.00	222.77	GGU Barge 22C-32-691 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Barge 22C-32-691 TD	222.60		-8.62	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
3580.00	3583.66	Mesaverde
4375.00	4379.73	Price Coal
5195.00	5200.69	Top Gas
7225.00	7230.69	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Barge 22C-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 22C-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 22C-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 22C-32-691		
Well Position	+N/-S	26.29 ft	Northing:
	+E/-W	-58.80 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 29' 9.680 N
			Longitude:
			107° 34' 47.8600 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	357.78

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	
878.43	2.96	357.78	878.38	3.06	-0.12	2.50	2.50	0.00	357.78	
5,033.30	2.96	357.78	5,027.70	217.51	-8.43	0.00	0.00	0.00	0.00	
5,230.69	0.00	0.00	5,225.00	222.60	-8.62	1.50	-1.50	0.00	180.00	
7,530.69	0.00	0.00	7,525.00	222.60	-8.62	0.00	0.00	0.00	0.00	GGU Barge 22C-32

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22C-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 22C-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	357.78	800.00	0.35	-0.01	0.35	2.50	2.50	0.00	
878.43	2.96	357.78	878.38	3.06	-0.12	3.06	2.50	2.50	0.00	
900.00	2.96	357.78	899.92	4.17	-0.16	4.17	0.00	0.00	0.00	
1,000.00	2.96	357.78	999.79	9.33	-0.36	9.34	0.00	0.00	0.00	
1,100.00	2.96	357.78	1,099.65	14.49	-0.56	14.50	0.00	0.00	0.00	
1,200.00	2.96	357.78	1,199.52	19.65	-0.76	19.67	0.00	0.00	0.00	
1,300.00	2.96	357.78	1,299.38	24.82	-0.96	24.83	0.00	0.00	0.00	
1,400.00	2.96	357.78	1,399.25	29.98	-1.16	30.00	0.00	0.00	0.00	
1,500.00	2.96	357.78	1,499.12	35.14	-1.36	35.17	0.00	0.00	0.00	
1,600.00	2.96	357.78	1,598.98	40.30	-1.56	40.33	0.00	0.00	0.00	
1,700.00	2.96	357.78	1,698.85	45.46	-1.76	45.50	0.00	0.00	0.00	
1,800.00	2.96	357.78	1,798.72	50.62	-1.96	50.66	0.00	0.00	0.00	
1,900.00	2.96	357.78	1,898.58	55.78	-2.16	55.83	0.00	0.00	0.00	
2,000.00	2.96	357.78	1,998.45	60.95	-2.36	60.99	0.00	0.00	0.00	
2,100.00	2.96	357.78	2,098.32	66.11	-2.56	66.16	0.00	0.00	0.00	
2,200.00	2.96	357.78	2,198.18	71.27	-2.76	71.32	0.00	0.00	0.00	
2,300.00	2.96	357.78	2,298.05	76.43	-2.96	76.49	0.00	0.00	0.00	
2,400.00	2.96	357.78	2,397.92	81.59	-3.16	81.65	0.00	0.00	0.00	
2,500.00	2.96	357.78	2,497.78	86.75	-3.36	86.82	0.00	0.00	0.00	
2,600.00	2.96	357.78	2,597.65	91.92	-3.56	91.98	0.00	0.00	0.00	
2,700.00	2.96	357.78	2,697.52	97.08	-3.76	97.15	0.00	0.00	0.00	
2,800.00	2.96	357.78	2,797.38	102.24	-3.96	102.31	0.00	0.00	0.00	
2,900.00	2.96	357.78	2,897.25	107.40	-4.16	107.48	0.00	0.00	0.00	
3,000.00	2.96	357.78	2,997.12	112.56	-4.36	112.65	0.00	0.00	0.00	
3,100.00	2.96	357.78	3,096.98	117.72	-4.56	117.81	0.00	0.00	0.00	
3,200.00	2.96	357.78	3,196.85	122.88	-4.76	122.98	0.00	0.00	0.00	
3,300.00	2.96	357.78	3,296.71	128.05	-4.96	128.14	0.00	0.00	0.00	
3,400.00	2.96	357.78	3,396.58	133.21	-5.16	133.31	0.00	0.00	0.00	
3,500.00	2.96	357.78	3,496.45	138.37	-5.36	138.47	0.00	0.00	0.00	
3,583.66	2.96	357.78	3,580.00	142.69	-5.53	142.79	0.00	0.00	0.00	
Mesaverde										
3,600.00	2.96	357.78	3,596.31	143.53	-5.56	143.64	0.00	0.00	0.00	
3,700.00	2.96	357.78	3,696.18	148.69	-5.76	148.80	0.00	0.00	0.00	
3,800.00	2.96	357.78	3,796.05	153.85	-5.96	153.97	0.00	0.00	0.00	
3,900.00	2.96	357.78	3,895.91	159.01	-6.16	159.13	0.00	0.00	0.00	
4,000.00	2.96	357.78	3,995.78	164.18	-6.36	164.30	0.00	0.00	0.00	
4,100.00	2.96	357.78	4,095.65	169.34	-6.56	169.46	0.00	0.00	0.00	
4,200.00	2.96	357.78	4,195.51	174.50	-6.76	174.63	0.00	0.00	0.00	
4,300.00	2.96	357.78	4,295.38	179.66	-6.96	179.79	0.00	0.00	0.00	
4,379.73	2.96	357.78	4,375.00	183.77	-7.12	183.91	0.00	0.00	0.00	
Price Coal										
4,400.00	2.96	357.78	4,395.25	184.82	-7.16	184.96	0.00	0.00	0.00	
4,500.00	2.96	357.78	4,495.11	189.98	-7.36	190.13	0.00	0.00	0.00	

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22C-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 22C-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)
4,600.00	2.96	357.78	4,594.98	195.14	-7.56	195.29	0.00	0.00	0.00
4,700.00	2.96	357.78	4,694.85	200.31	-7.76	200.46	0.00	0.00	0.00
4,800.00	2.96	357.78	4,794.71	205.47	-7.96	205.62	0.00	0.00	0.00
4,900.00	2.96	357.78	4,894.58	210.63	-8.16	210.79	0.00	0.00	0.00
5,000.00	2.96	357.78	4,994.45	215.79	-8.36	215.95	0.00	0.00	0.00
5,033.30	2.96	357.78	5,027.70	217.51	-8.43	217.67	0.00	0.00	0.00
5,100.00	1.96	357.78	5,094.34	220.37	-8.54	220.54	1.50	-1.50	0.00
5,200.00	0.46	357.78	5,194.31	222.48	-8.62	222.65	1.50	-1.50	0.00
5,200.69	0.45	357.78	5,195.00	222.49	-8.62	222.65	1.50	-1.50	0.00
Top Gas									
5,230.69	0.00	0.00	5,225.00	222.60	-8.62	222.77	1.50	-1.50	0.00
5,300.00	0.00	0.00	5,294.31	222.60	-8.62	222.77	0.00	0.00	0.00
5,400.00	0.00	0.00	5,394.31	222.60	-8.62	222.77	0.00	0.00	0.00
5,500.00	0.00	0.00	5,494.31	222.60	-8.62	222.77	0.00	0.00	0.00
5,600.00	0.00	0.00	5,594.31	222.60	-8.62	222.77	0.00	0.00	0.00
5,700.00	0.00	0.00	5,694.31	222.60	-8.62	222.77	0.00	0.00	0.00
5,800.00	0.00	0.00	5,794.31	222.60	-8.62	222.77	0.00	0.00	0.00
5,900.00	0.00	0.00	5,894.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,000.00	0.00	0.00	5,994.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,100.00	0.00	0.00	6,094.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,200.00	0.00	0.00	6,194.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,300.00	0.00	0.00	6,294.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,400.00	0.00	0.00	6,394.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,500.00	0.00	0.00	6,494.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,600.00	0.00	0.00	6,594.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,700.00	0.00	0.00	6,694.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,800.00	0.00	0.00	6,794.31	222.60	-8.62	222.77	0.00	0.00	0.00
6,900.00	0.00	0.00	6,894.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,000.00	0.00	0.00	6,994.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,100.00	0.00	0.00	7,094.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,200.00	0.00	0.00	7,194.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,230.69	0.00	0.00	7,225.00	222.60	-8.62	222.77	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,294.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,400.00	0.00	0.00	7,394.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,500.00	0.00	0.00	7,494.31	222.60	-8.62	222.77	0.00	0.00	0.00
7,530.69	0.00	0.00	7,525.00	222.60	-8.62	222.77	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 22C-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 22C-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 (°)	
3,583.66	3,580.00	Mesaverde		0.00		
4,379.73	4,375.00	Price Coal		0.00		
5,200.69	5,195.00	Top Gas		0.00		
7,230.69	7,225.00	Rollins		0.00		