

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #3

GGU Barge 22D-32-691

Wellbore #1

Plan: Design #1

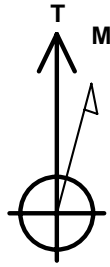
Standard Planning Report

23 December, 2009

WELL DETAILS: GGU Barge 22D-32-691

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1608641.592	2413006.984	39° 29' 9.7700" N	107° 34' 47.8000" W	



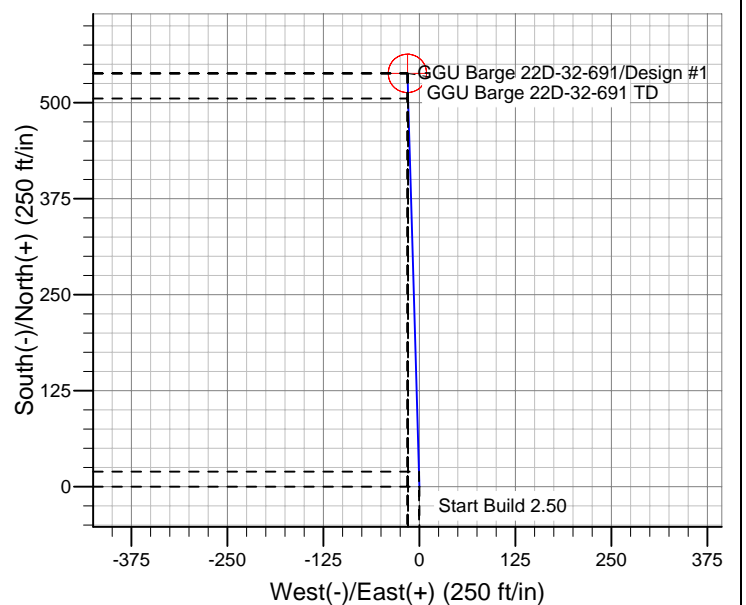
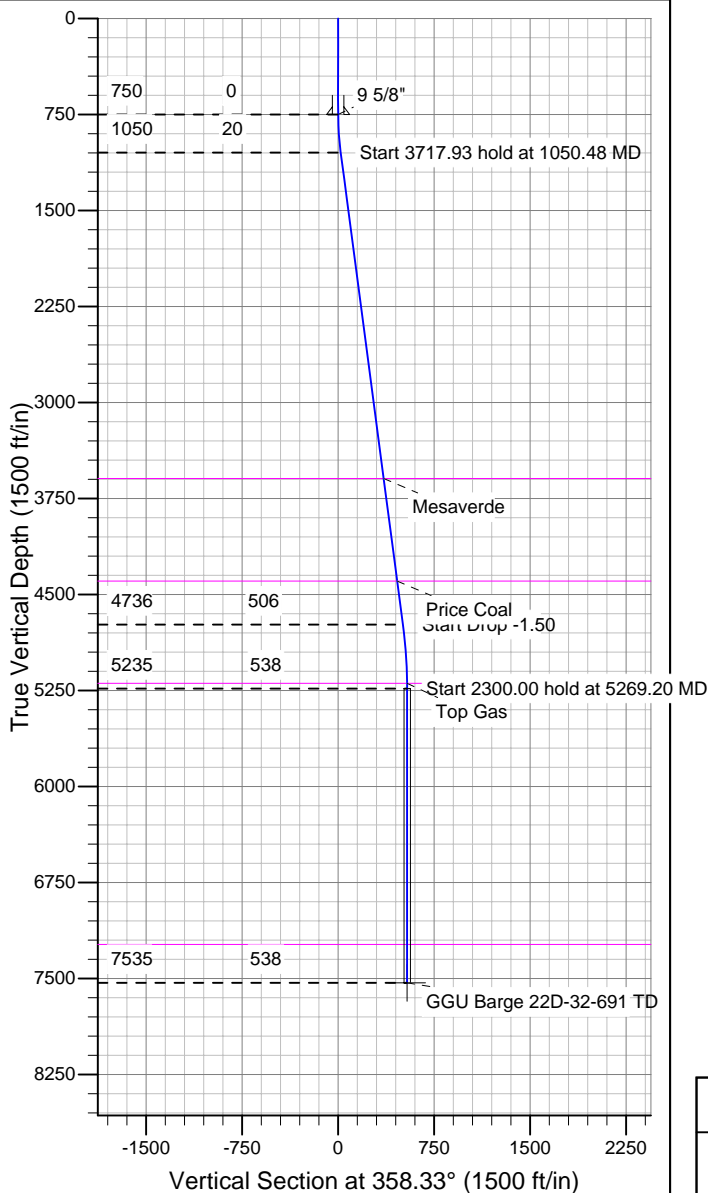
Azimuths to True North
Magnetic North: 103.48°
Magnetic Field
Strength: 52474.8nT
Dip Angle: 65.84°
Date: 12/23/2009
Model: BGGM2007

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	750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
3	1050.48	7.51	358.33	1049.62	19.66	-0.57	2.50	358.33	19.67	
4	1768.41	7.51	358.33	1735.64	505.51	-14.73	0.00	0.00	505.72	
5	5269.20	0.00	0.00	5235.00	538.28	-15.68	1.50	180.00	538.51	
6	7269.20	0.00	0.00	7535.00	538.28	-15.68	0.00	0.00	538.51	GGU Barge 22D-32-691 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Barge 22D-32-691 TD	7535.00	538.28	-15.68	Circle (Radius: 25.00)



CASING DETAILS

TVD	MD	Name	Size
750.00	750.00	9 5/8"	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3595.00	3617.89	Mesaverde
4395.00	4424.82	Price Coal
5195.00	5229.20	Top Gas
7235.00	7269.20	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Barge 22D-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 22D-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 22D-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 22D-32-691		
Well Position	+N/-S	35.40 ft	Northing:
	+E/-W	-54.10 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 29' 9.770 N
			Longitude:
			107° 34' 47.8000 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	358.33

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	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,050.48	7.51	358.33	1,049.62	19.66	-0.57	2.50	2.50	0.00	358.33	
4,768.41	7.51	358.33	4,735.64	505.51	-14.73	0.00	0.00	0.00	0.00	
5,269.20	0.00	0.00	5,235.00	538.28	-15.68	1.50	-1.50	0.00	180.00	
7,569.20	0.00	0.00	7,535.00	538.28	-15.68	0.00	0.00	0.00	0.00	GGU Barge 22D-32

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22D-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 22D-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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	1.25	358.33	800.00	0.55	-0.02	0.55	2.50	2.50	0.00
900.00	3.75	358.33	899.89	4.90	-0.14	4.91	2.50	2.50	0.00
1,000.00	6.25	358.33	999.50	13.62	-0.40	13.62	2.50	2.50	0.00
1,050.48	7.51	358.33	1,049.62	19.66	-0.57	19.67	2.50	2.50	0.00
1,100.00	7.51	358.33	1,098.71	26.13	-0.76	26.14	0.00	0.00	0.00
1,200.00	7.51	358.33	1,197.86	39.20	-1.14	39.22	0.00	0.00	0.00
1,300.00	7.51	358.33	1,297.00	52.27	-1.52	52.29	0.00	0.00	0.00
1,400.00	7.51	358.33	1,396.14	65.34	-1.90	65.36	0.00	0.00	0.00
1,500.00	7.51	358.33	1,495.28	78.40	-2.28	78.44	0.00	0.00	0.00
1,600.00	7.51	358.33	1,594.42	91.47	-2.66	91.51	0.00	0.00	0.00
1,700.00	7.51	358.33	1,693.57	104.54	-3.05	104.58	0.00	0.00	0.00
1,800.00	7.51	358.33	1,792.71	117.61	-3.43	117.66	0.00	0.00	0.00
1,900.00	7.51	358.33	1,891.85	130.67	-3.81	130.73	0.00	0.00	0.00
2,000.00	7.51	358.33	1,990.99	143.74	-4.19	143.80	0.00	0.00	0.00
2,100.00	7.51	358.33	2,090.13	156.81	-4.57	156.88	0.00	0.00	0.00
2,200.00	7.51	358.33	2,189.27	169.88	-4.95	169.95	0.00	0.00	0.00
2,300.00	7.51	358.33	2,288.42	182.95	-5.33	183.02	0.00	0.00	0.00
2,400.00	7.51	358.33	2,387.56	196.01	-5.71	196.10	0.00	0.00	0.00
2,500.00	7.51	358.33	2,486.70	209.08	-6.09	209.17	0.00	0.00	0.00
2,600.00	7.51	358.33	2,585.84	222.15	-6.47	222.24	0.00	0.00	0.00
2,700.00	7.51	358.33	2,684.98	235.22	-6.85	235.32	0.00	0.00	0.00
2,800.00	7.51	358.33	2,784.12	248.28	-7.23	248.39	0.00	0.00	0.00
2,900.00	7.51	358.33	2,883.27	261.35	-7.61	261.46	0.00	0.00	0.00
3,000.00	7.51	358.33	2,982.41	274.42	-7.99	274.54	0.00	0.00	0.00
3,100.00	7.51	358.33	3,081.55	287.49	-8.37	287.61	0.00	0.00	0.00
3,200.00	7.51	358.33	3,180.69	300.55	-8.75	300.68	0.00	0.00	0.00
3,300.00	7.51	358.33	3,279.83	313.62	-9.14	313.76	0.00	0.00	0.00
3,400.00	7.51	358.33	3,378.98	326.69	-9.52	326.83	0.00	0.00	0.00
3,500.00	7.51	358.33	3,478.12	339.76	-9.90	339.90	0.00	0.00	0.00
3,600.00	7.51	358.33	3,577.26	352.83	-10.28	352.98	0.00	0.00	0.00
3,617.89	7.51	358.33	3,595.00	355.16	-10.35	355.31	0.00	0.00	0.00
Mesaverde									
3,700.00	7.51	358.33	3,676.40	365.89	-10.66	366.05	0.00	0.00	0.00
3,800.00	7.51	358.33	3,775.54	378.96	-11.04	379.12	0.00	0.00	0.00
3,900.00	7.51	358.33	3,874.68	392.03	-11.42	392.20	0.00	0.00	0.00
4,000.00	7.51	358.33	3,973.83	405.10	-11.80	405.27	0.00	0.00	0.00
4,100.00	7.51	358.33	4,072.97	418.16	-12.18	418.34	0.00	0.00	0.00
4,200.00	7.51	358.33	4,172.11	431.23	-12.56	431.42	0.00	0.00	0.00
4,300.00	7.51	358.33	4,271.25	444.30	-12.94	444.49	0.00	0.00	0.00
4,400.00	7.51	358.33	4,370.39	457.37	-13.32	457.56	0.00	0.00	0.00
4,424.82	7.51	358.33	4,395.00	460.61	-13.42	460.81	0.00	0.00	0.00
Price Coal									
4,500.00	7.51	358.33	4,469.53	470.44	-13.70	470.63	0.00	0.00	0.00

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22D-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 22D-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	7.51	358.33	4,568.68	483.50	-14.08	483.71	0.00	0.00	0.00
4,700.00	7.51	358.33	4,667.82	496.57	-14.46	496.78	0.00	0.00	0.00
4,768.41	7.51	358.33	4,735.64	505.51	-14.73	505.72	0.00	0.00	0.00
4,800.00	7.04	358.33	4,766.98	509.51	-14.84	509.73	1.50	-1.50	0.00
4,900.00	5.54	358.33	4,866.37	520.46	-15.16	520.68	1.50	-1.50	0.00
5,000.00	4.04	358.33	4,966.02	528.80	-15.40	529.02	1.50	-1.50	0.00
5,100.00	2.54	358.33	5,065.85	534.53	-15.57	534.76	1.50	-1.50	0.00
5,200.00	1.04	358.33	5,165.80	537.65	-15.66	537.88	1.50	-1.50	0.00
5,229.20	0.60	358.33	5,195.00	538.07	-15.67	538.30	1.50	-1.50	0.00
Top Gas									
5,269.20	0.00	0.00	5,235.00	538.28	-15.68	538.51	1.50	-1.50	0.00
5,300.00	0.00	0.00	5,265.80	538.28	-15.68	538.51	0.00	0.00	0.00
5,400.00	0.00	0.00	5,365.80	538.28	-15.68	538.51	0.00	0.00	0.00
5,500.00	0.00	0.00	5,465.80	538.28	-15.68	538.51	0.00	0.00	0.00
5,600.00	0.00	0.00	5,565.80	538.28	-15.68	538.51	0.00	0.00	0.00
5,700.00	0.00	0.00	5,665.80	538.28	-15.68	538.51	0.00	0.00	0.00
5,800.00	0.00	0.00	5,765.80	538.28	-15.68	538.51	0.00	0.00	0.00
5,900.00	0.00	0.00	5,865.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,000.00	0.00	0.00	5,965.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,100.00	0.00	0.00	6,065.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,200.00	0.00	0.00	6,165.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,300.00	0.00	0.00	6,265.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,400.00	0.00	0.00	6,365.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,500.00	0.00	0.00	6,465.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,600.00	0.00	0.00	6,565.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,700.00	0.00	0.00	6,665.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,800.00	0.00	0.00	6,765.80	538.28	-15.68	538.51	0.00	0.00	0.00
6,900.00	0.00	0.00	6,865.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,000.00	0.00	0.00	6,965.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,100.00	0.00	0.00	7,065.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,200.00	0.00	0.00	7,165.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,269.20	0.00	0.00	7,235.00	538.28	-15.68	538.51	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,265.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,400.00	0.00	0.00	7,365.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,500.00	0.00	0.00	7,465.80	538.28	-15.68	538.51	0.00	0.00	0.00
7,569.20	0.00	0.00	7,535.00	538.28	-15.68	538.51	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
750.00	750.00	9 5/8"	9-5/8	12-1/4

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22D-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 22D-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 (°)	
3,617.89	3,595.00	Mesaverde		0.00		
4,424.82	4,395.00	Price Coal		0.00		
5,229.20	5,195.00	Top Gas		0.00		
7,269.20	7,235.00	Rollins		0.00		