

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #3

GGU Barge 22B-32-691

Wellbore #1

Plan: Design #1

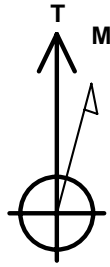
Standard Planning Report

23 December, 2009

WELL DETAILS: GGU Barge 22B-32-691

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1608625.174	2413016.803	39° 29' 9.6100" N	107° 34' 47.6700" W	



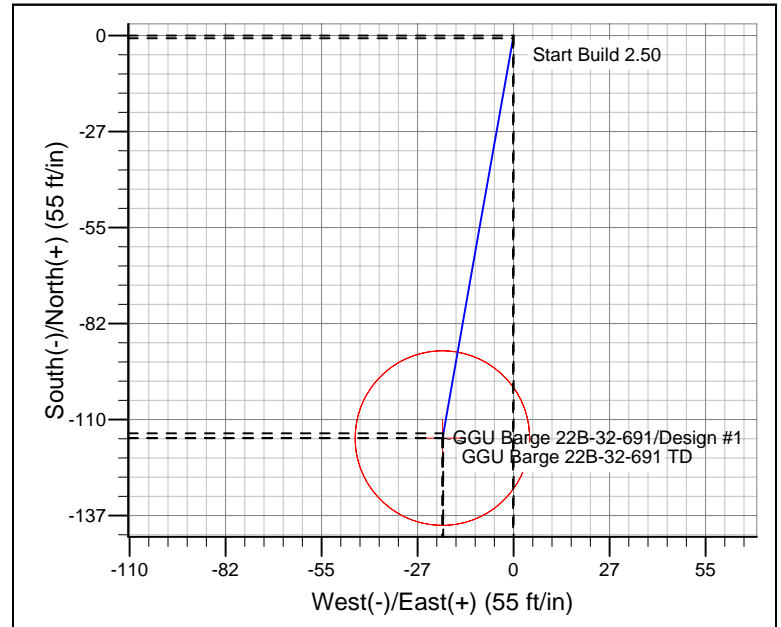
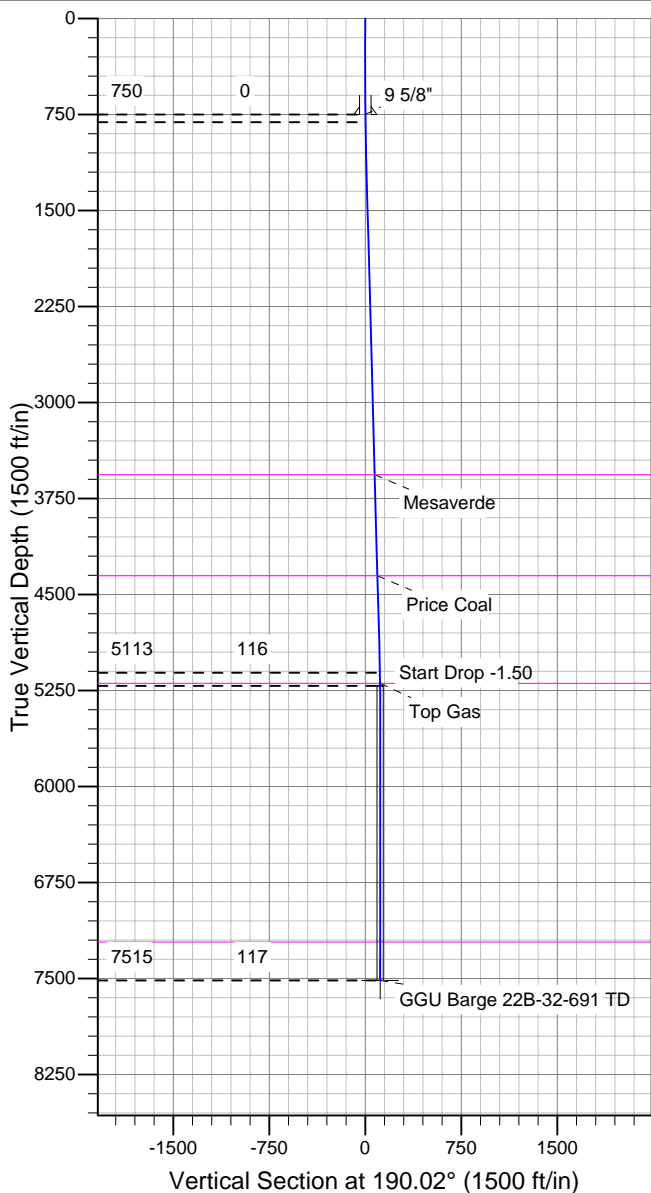
Azimuths to True North
Magnetic North: 10.348°
Magnetic Field
Strength: 52474.7snT
Dip Angle: 65.84°
Date: 12/23/2009
Model: BGGM2007

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	750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
3	811.22	1.53	190.02	811.21	-0.81	-0.14	2.50	190.02	0.82	
4	114.52	1.53	190.02	5112.98	-113.99	-20.15	0.00	0.00	115.75	
5	216.55	0.00	0.00	5215.00	-115.33	-20.38	1.50	180.00	117.12	
6	516.55	0.00	0.00	7515.00	-115.33	-20.38	0.00	0.00	117.12	GGU Barge 22B-32-691 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Barge 22B-32-691 TD	7515.33	-15.33	-20.38	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
3565.00	3565.99	Mesaverde
4355.00	4356.27	Price Coal
5195.00	5196.55	Top Gas
7215.00	7216.55	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Barge 22B-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 22B-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 22B-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 22B-32-691		
Well Position	+N/-S	19.21 ft	Northing:
	+E/-W	-43.90 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 29' 9.610 N
			Longitude:
			107° 34' 47.6700 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	190.02

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	
811.22	1.53	190.02	811.21	-0.81	-0.14	2.50	2.50	0.00	190.02	
5,114.52	1.53	190.02	5,112.98	-113.99	-20.15	0.00	0.00	0.00	0.00	
5,216.55	0.00	0.00	5,215.00	-115.33	-20.38	1.50	-1.50	0.00	180.00	
7,516.55	0.00	0.00	7,515.00	-115.33	-20.38	0.00	0.00	0.00	0.00	GGU Barge 22B-32

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22B-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 22B-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	190.02	800.00	-0.54	-0.09	0.55	2.50	2.50	0.00
811.22	1.53	190.02	811.21	-0.81	-0.14	0.82	2.50	2.50	0.00
900.00	1.53	190.02	899.96	-3.14	-0.56	3.19	0.00	0.00	0.00
1,000.00	1.53	190.02	999.93	-5.77	-1.02	5.86	0.00	0.00	0.00
1,100.00	1.53	190.02	1,099.89	-8.40	-1.48	8.53	0.00	0.00	0.00
1,200.00	1.53	190.02	1,199.85	-11.03	-1.95	11.20	0.00	0.00	0.00
1,300.00	1.53	190.02	1,299.82	-13.66	-2.41	13.87	0.00	0.00	0.00
1,400.00	1.53	190.02	1,399.78	-16.29	-2.88	16.54	0.00	0.00	0.00
1,500.00	1.53	190.02	1,499.75	-18.92	-3.34	19.21	0.00	0.00	0.00
1,600.00	1.53	190.02	1,599.71	-21.55	-3.81	21.89	0.00	0.00	0.00
1,700.00	1.53	190.02	1,699.68	-24.18	-4.27	24.56	0.00	0.00	0.00
1,800.00	1.53	190.02	1,799.64	-26.81	-4.74	27.23	0.00	0.00	0.00
1,900.00	1.53	190.02	1,899.60	-29.44	-5.20	29.90	0.00	0.00	0.00
2,000.00	1.53	190.02	1,999.57	-32.07	-5.67	32.57	0.00	0.00	0.00
2,100.00	1.53	190.02	2,099.53	-34.70	-6.13	35.24	0.00	0.00	0.00
2,200.00	1.53	190.02	2,199.50	-37.33	-6.60	37.91	0.00	0.00	0.00
2,300.00	1.53	190.02	2,299.46	-39.96	-7.06	40.58	0.00	0.00	0.00
2,400.00	1.53	190.02	2,399.43	-42.59	-7.53	43.25	0.00	0.00	0.00
2,500.00	1.53	190.02	2,499.39	-45.22	-7.99	45.92	0.00	0.00	0.00
2,600.00	1.53	190.02	2,599.35	-47.85	-8.46	48.59	0.00	0.00	0.00
2,700.00	1.53	190.02	2,699.32	-50.48	-8.92	51.26	0.00	0.00	0.00
2,800.00	1.53	190.02	2,799.28	-53.11	-9.39	53.94	0.00	0.00	0.00
2,900.00	1.53	190.02	2,899.25	-55.74	-9.85	56.61	0.00	0.00	0.00
3,000.00	1.53	190.02	2,999.21	-58.37	-10.32	59.28	0.00	0.00	0.00
3,100.00	1.53	190.02	3,099.18	-61.00	-10.78	61.95	0.00	0.00	0.00
3,200.00	1.53	190.02	3,199.14	-63.63	-11.25	64.62	0.00	0.00	0.00
3,300.00	1.53	190.02	3,299.10	-66.26	-11.71	67.29	0.00	0.00	0.00
3,400.00	1.53	190.02	3,399.07	-68.89	-12.18	69.96	0.00	0.00	0.00
3,500.00	1.53	190.02	3,499.03	-71.52	-12.64	72.63	0.00	0.00	0.00
3,565.99	1.53	190.02	3,565.00	-73.26	-12.95	74.39	0.00	0.00	0.00
Mesaverde									
3,600.00	1.53	190.02	3,599.00	-74.15	-13.11	75.30	0.00	0.00	0.00
3,700.00	1.53	190.02	3,698.96	-76.78	-13.57	77.97	0.00	0.00	0.00
3,800.00	1.53	190.02	3,798.93	-79.41	-14.04	80.64	0.00	0.00	0.00
3,900.00	1.53	190.02	3,898.89	-82.04	-14.50	83.32	0.00	0.00	0.00
4,000.00	1.53	190.02	3,998.86	-84.67	-14.97	85.99	0.00	0.00	0.00
4,100.00	1.53	190.02	4,098.82	-87.30	-15.43	88.66	0.00	0.00	0.00
4,200.00	1.53	190.02	4,198.78	-89.93	-15.90	91.33	0.00	0.00	0.00
4,300.00	1.53	190.02	4,298.75	-92.56	-16.36	94.00	0.00	0.00	0.00
4,356.27	1.53	190.02	4,355.00	-94.04	-16.62	95.50	0.00	0.00	0.00
Price Coal									
4,400.00	1.53	190.02	4,398.71	-95.19	-16.83	96.67	0.00	0.00	0.00
4,500.00	1.53	190.02	4,498.68	-97.82	-17.29	99.34	0.00	0.00	0.00

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge 22B-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 22B-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	1.53	190.02	4,598.64	-100.45	-17.76	102.01	0.00	0.00	0.00
4,700.00	1.53	190.02	4,698.61	-103.08	-18.22	104.68	0.00	0.00	0.00
4,800.00	1.53	190.02	4,798.57	-105.72	-18.68	107.35	0.00	0.00	0.00
4,900.00	1.53	190.02	4,898.53	-108.35	-19.15	110.02	0.00	0.00	0.00
5,000.00	1.53	190.02	4,998.50	-110.98	-19.61	112.70	0.00	0.00	0.00
5,100.00	1.53	190.02	5,098.46	-113.61	-20.08	115.37	0.00	0.00	0.00
5,114.52	1.53	190.02	5,112.98	-113.99	-20.15	115.75	0.00	0.00	0.00
5,196.55	0.30	190.02	5,195.00	-115.28	-20.38	117.06	1.50	-1.50	0.00
Top Gas									
5,200.00	0.25	190.02	5,198.45	-115.29	-20.38	117.08	1.50	-1.50	0.00
5,216.55	0.00	0.00	5,215.00	-115.33	-20.38	117.12	1.50	-1.50	0.00
5,300.00	0.00	0.00	5,298.45	-115.33	-20.38	117.12	0.00	0.00	0.00
5,400.00	0.00	0.00	5,398.45	-115.33	-20.38	117.12	0.00	0.00	0.00
5,500.00	0.00	0.00	5,498.45	-115.33	-20.38	117.12	0.00	0.00	0.00
5,600.00	0.00	0.00	5,598.45	-115.33	-20.38	117.12	0.00	0.00	0.00
5,700.00	0.00	0.00	5,698.45	-115.33	-20.38	117.12	0.00	0.00	0.00
5,800.00	0.00	0.00	5,798.45	-115.33	-20.38	117.12	0.00	0.00	0.00
5,900.00	0.00	0.00	5,898.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,000.00	0.00	0.00	5,998.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,100.00	0.00	0.00	6,098.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,200.00	0.00	0.00	6,198.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,300.00	0.00	0.00	6,298.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,400.00	0.00	0.00	6,398.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,500.00	0.00	0.00	6,498.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,600.00	0.00	0.00	6,598.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,700.00	0.00	0.00	6,698.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,800.00	0.00	0.00	6,798.45	-115.33	-20.38	117.12	0.00	0.00	0.00
6,900.00	0.00	0.00	6,898.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,000.00	0.00	0.00	6,998.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,100.00	0.00	0.00	7,098.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,200.00	0.00	0.00	7,198.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,216.55	0.00	0.00	7,215.00	-115.33	-20.38	117.12	0.00	0.00	0.00
Rollins									
7,300.00	0.00	0.00	7,298.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,400.00	0.00	0.00	7,398.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,500.00	0.00	0.00	7,498.45	-115.33	-20.38	117.12	0.00	0.00	0.00
7,516.55	0.00	0.00	7,515.00	-115.33	-20.38	117.12	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 22B-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 22B-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 (°)	
3,565.99	3,565.00	Mesaverde		0.00		
4,356.27	4,355.00	Price Coal		0.00		
5,196.55	5,195.00	Top Gas		0.00		
7,216.55	7,215.00	Rollins		0.00		