

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #3

GGU Barge FED 33D-32-691

Wellbore #1

Plan: Design #1

Standard Planning Report

23 December, 2009

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 33D-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 33D-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 33D-32-691		
Well Position	+N/-S	6.05 ft	Northing:
	+E/-W	-14.90 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 29' 9.480 N
			Longitude:
			107° 34' 47.3000 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	119.95

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	
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,814.75	26.12	119.95	1,778.94	-116.83	202.79	2.50	2.50	0.00	119.95	
3,757.64	26.12	119.95	3,523.43	-543.82	943.91	0.00	0.00	0.00	0.00	
5,498.90	0.00	0.00	5,205.00	-738.55	1,281.88	1.50	-1.50	0.00	180.00	
7,798.90	0.00	0.00	7,505.00	-738.55	1,281.88	0.00	0.00	0.00	0.00	GGU Barge Fed 33

BBC

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 33D-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 33D-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
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
800.00	0.75	119.95	800.00	-0.10	0.17	0.20	2.50	2.50	0.00
900.00	3.25	119.95	899.93	-1.84	3.19	3.69	2.50	2.50	0.00
1,000.00	5.75	119.95	999.61	-5.76	9.99	11.53	2.50	2.50	0.00
1,100.00	8.25	119.95	1,098.86	-11.84	20.55	23.72	2.50	2.50	0.00
1,200.00	10.75	119.95	1,197.48	-20.08	34.85	40.22	2.50	2.50	0.00
1,300.00	13.25	119.95	1,295.29	-30.46	52.86	61.01	2.50	2.50	0.00
1,400.00	15.75	119.95	1,392.10	-42.96	74.56	86.05	2.50	2.50	0.00
1,500.00	18.25	119.95	1,487.72	-57.55	99.89	115.28	2.50	2.50	0.00
1,600.00	20.75	119.95	1,581.98	-74.21	128.81	148.66	2.50	2.50	0.00
1,700.00	23.25	119.95	1,674.69	-92.91	161.27	186.12	2.50	2.50	0.00
1,800.00	25.75	119.95	1,765.68	-113.61	197.20	227.58	2.50	2.50	0.00
1,814.75	26.12	119.95	1,778.94	-116.83	202.79	234.03	2.50	2.50	0.00
1,900.00	26.12	119.95	1,855.48	-135.57	235.30	271.56	0.00	0.00	0.00
2,000.00	26.12	119.95	1,945.27	-157.55	273.45	315.59	0.00	0.00	0.00
2,100.00	26.12	119.95	2,035.06	-179.52	311.59	359.61	0.00	0.00	0.00
2,200.00	26.12	119.95	2,124.85	-201.50	349.74	403.63	0.00	0.00	0.00
2,300.00	26.12	119.95	2,214.64	-223.48	387.88	447.66	0.00	0.00	0.00
2,400.00	26.12	119.95	2,304.43	-245.45	426.03	491.68	0.00	0.00	0.00
2,500.00	26.12	119.95	2,394.21	-267.43	464.18	535.70	0.00	0.00	0.00
2,600.00	26.12	119.95	2,484.00	-289.41	502.32	579.73	0.00	0.00	0.00
2,700.00	26.12	119.95	2,573.79	-311.39	540.47	623.75	0.00	0.00	0.00
2,800.00	26.12	119.95	2,663.58	-333.36	578.61	667.77	0.00	0.00	0.00
2,900.00	26.12	119.95	2,753.37	-355.34	616.76	711.80	0.00	0.00	0.00
3,000.00	26.12	119.95	2,843.16	-377.32	654.90	755.82	0.00	0.00	0.00
3,100.00	26.12	119.95	2,932.94	-399.29	693.05	799.84	0.00	0.00	0.00
3,200.00	26.12	119.95	3,022.73	-421.27	731.19	843.87	0.00	0.00	0.00
3,300.00	26.12	119.95	3,112.52	-443.25	769.34	887.89	0.00	0.00	0.00
3,400.00	26.12	119.95	3,202.31	-465.23	807.48	931.91	0.00	0.00	0.00
3,500.00	26.12	119.95	3,292.10	-487.20	845.63	975.94	0.00	0.00	0.00
3,600.00	26.12	119.95	3,381.89	-509.18	883.77	1,019.96	0.00	0.00	0.00
3,700.00	26.12	119.95	3,471.67	-531.16	921.92	1,063.98	0.00	0.00	0.00
3,748.25	26.12	119.95	3,515.00	-541.76	940.33	1,085.23	0.00	0.00	0.00
Mesaverde									
3,757.64	26.12	119.95	3,523.43	-543.82	943.91	1,089.36	0.00	0.00	0.00
3,800.00	25.48	119.95	3,561.57	-553.03	959.88	1,107.80	1.50	-1.50	0.00
3,900.00	23.98	119.95	3,652.39	-573.91	996.13	1,149.63	1.50	-1.50	0.00
4,000.00	22.48	119.95	3,744.28	-593.61	1,030.31	1,189.08	1.50	-1.50	0.00
4,100.00	20.98	119.95	3,837.17	-612.09	1,062.40	1,226.11	1.50	-1.50	0.00
4,200.00	19.48	119.95	3,930.99	-629.36	1,092.36	1,260.69	1.50	-1.50	0.00
4,300.00	17.98	119.95	4,025.69	-645.39	1,120.19	1,292.81	1.50	-1.50	0.00
4,400.00	16.48	119.95	4,121.20	-660.18	1,145.86	1,322.43	1.50	-1.50	0.00
4,500.00	14.98	119.95	4,217.45	-673.71	1,169.35	1,349.55	1.50	-1.50	0.00
4,600.00	13.48	119.95	4,314.38	-685.99	1,190.66	1,374.14	1.50	-1.50	0.00

BBC

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Well:	GGU Barge FED 33D-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)
4,600.64	13.47	119.95	4,315.00	-686.06	1,190.79	1,374.28	1.50	-1.50	0.00
Price Coal									
4,700.00	11.98	119.95	4,411.92	-696.99	1,209.76	1,396.18	1.50	-1.50	0.00
4,800.00	10.48	119.95	4,510.00	-706.72	1,226.64	1,415.66	1.50	-1.50	0.00
4,900.00	8.98	119.95	4,608.55	-715.16	1,241.28	1,432.56	1.50	-1.50	0.00
5,000.00	7.48	119.95	4,707.52	-722.31	1,253.69	1,446.88	1.50	-1.50	0.00
5,100.00	5.98	119.95	4,806.83	-728.16	1,263.85	1,458.61	1.50	-1.50	0.00
5,200.00	4.48	119.95	4,906.41	-732.71	1,271.75	1,467.73	1.50	-1.50	0.00
5,300.00	2.98	119.95	5,006.19	-735.96	1,277.40	1,474.24	1.50	-1.50	0.00
5,400.00	1.48	119.95	5,106.12	-737.91	1,280.77	1,478.14	1.50	-1.50	0.00
5,498.90	0.00	0.00	5,205.00	-738.55	1,281.88	1,479.42	1.50	-1.50	0.00
5,500.00	0.00	0.00	5,206.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
5,588.90	0.00	0.00	5,295.00	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
Top Gas									
5,600.00	0.00	0.00	5,306.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
5,700.00	0.00	0.00	5,406.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
5,800.00	0.00	0.00	5,506.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
5,900.00	0.00	0.00	5,606.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,000.00	0.00	0.00	5,706.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,100.00	0.00	0.00	5,806.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,200.00	0.00	0.00	5,906.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,300.00	0.00	0.00	6,006.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,400.00	0.00	0.00	6,106.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,500.00	0.00	0.00	6,206.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,600.00	0.00	0.00	6,306.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,700.00	0.00	0.00	6,406.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,800.00	0.00	0.00	6,506.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
6,900.00	0.00	0.00	6,606.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,000.00	0.00	0.00	6,706.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,100.00	0.00	0.00	6,806.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,200.00	0.00	0.00	6,906.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,300.00	0.00	0.00	7,006.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,400.00	0.00	0.00	7,106.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,498.90	0.00	0.00	7,205.00	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
Rollins									
7,500.00	0.00	0.00	7,206.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,600.00	0.00	0.00	7,306.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,700.00	0.00	0.00	7,406.10	-738.55	1,281.88	1,479.42	0.00	0.00	0.00
7,798.90	0.00	0.00	7,505.00	-738.55	1,281.88	1,479.42	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
770.00	770.00	9 5/8"	9-5/8	12-1/4

BBC

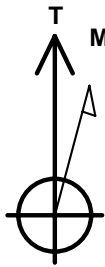
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Barge FED 33D-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 33D-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 (°)	
3,748.25	3,515.00	Mesaverde		0.00		
4,600.64	4,315.00	Price Coal		0.00		
5,588.90	5,295.00	Top Gas		0.00		
7,498.90	7,205.00	Rollins		0.00		

WELL DETAILS: GGU Barge FED 33D-32-691

		Ground Level: 0.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1608611.356	2413045.502	39° 29' 9.4800" N	107° 34' 47.3000" W	



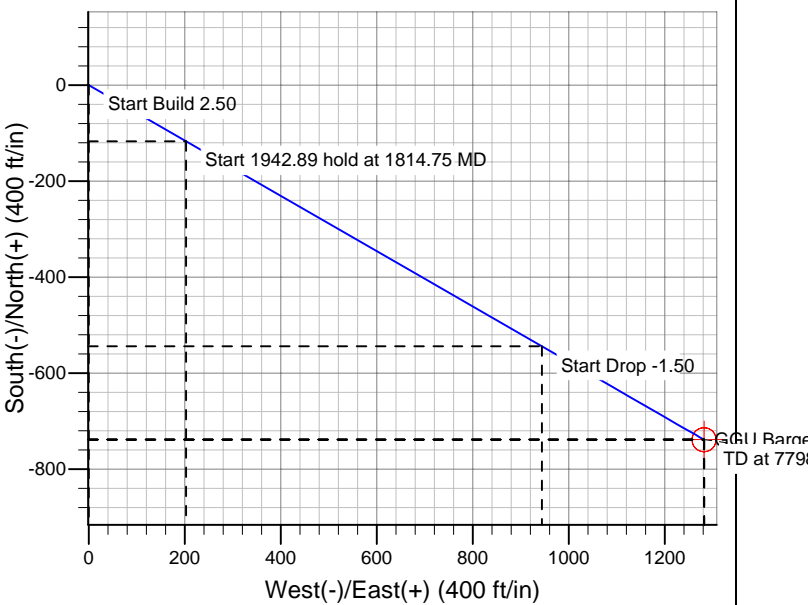
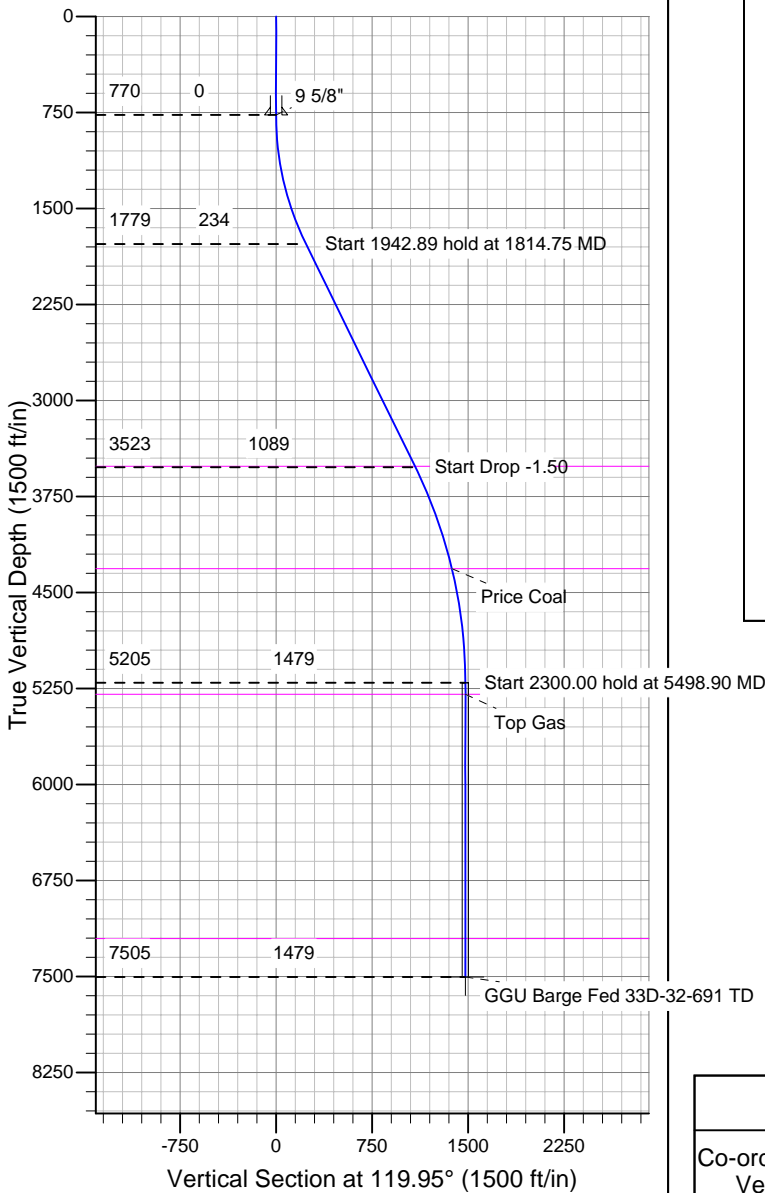
Azimuths to True North
Magnetic North: 13.41°
Set 1
Magnetic Field
Strength: 52474.7nT
Dip Angle: 65.84°
Date: 12/23/2008
Model: BGGM2007

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	
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	
1814.75	26.12	119.95	1778.94	-116.83	202.79	2.50	119.95	234.03	
3523.00	26.12	119.95	3523.43	-543.82	943.91	0.00	0.00	1089.36	
5498.90	0.00	0.00	5205.00	-738.55	1281.88	1.50	180.00	1479.42	
7205.00	0.00	0.00	7505.00	-738.55	1281.88	0.00	0.00	1479.42	GGU Barge Fed 33D-32-691 TD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Barge Fed 33D-32-691 TD	7505.00	-738.55	1281.88	Circle (Radius: 25.00)



CASING DETAILS

TVD	MD	Name	Size
770.00	770.00	9 5/8"	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3515.00	3748.25	Mesaverde
4315.00	4600.64	Price Coal
5295.00	5588.90	Top Gas
7205.00	7498.90	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Barge FED 33D-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