

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #21

GGU Federal 33C-19-691

Wellbore #1

Plan: Design #1

Standard Planning Report

29 December, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal 33C-19-691
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 #21	North Reference:	True
Well:	GGU Federal 33C-19-691	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 #21		
Site Position:		Northing:	1,617,563.978 ft
From:	Lat/Long	Easting:	2,407,991.814 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	39° 30' 36.792 N
		Longitude:	107° 35' 54.3804 W
		Grid Convergence:	-1.32 °

Well	GGU Federal 33C-19-691		
Well Position	+N/-S	160.61 ft	Northing:
	+E/-W	-657.40 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 38.379 N
			Longitude:
			107° 36' 2.7684 W
			Ground Level:
			0.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.34	65.88	52,533

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	77.83

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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,198.97	34.97	77.83	2,113.70	87.27	404.58	2.50	2.50	0.00	77.83	
3,381.29	34.97	77.83	3,082.50	230.16	1,067.06	0.00	0.00	0.00	0.00	
5,712.91	0.00	0.00	5,272.00	375.60	1,741.36	1.50	-1.50	0.00	180.00	
7,712.91	0.00	0.00	7,272.00	375.60	1,741.36	0.00	0.00	0.00	0.00	GGU Federal 33C-

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Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #21	North Reference:	True
Well:	GGU Federal 33C-19-691	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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	2.50	77.83	899.97	0.46	2.13	2.18	2.50	2.50	0.00	
1,000.00	5.00	77.83	999.75	1.84	8.53	8.72	2.50	2.50	0.00	
1,100.00	7.50	77.83	1,099.14	4.13	19.17	19.61	2.50	2.50	0.00	
1,200.00	10.00	77.83	1,197.97	7.34	34.04	34.82	2.50	2.50	0.00	
1,300.00	12.50	77.83	1,296.04	11.45	53.10	54.33	2.50	2.50	0.00	
1,400.00	15.00	77.83	1,393.17	16.47	76.34	78.09	2.50	2.50	0.00	
1,500.00	17.50	77.83	1,489.17	22.36	103.69	106.07	2.50	2.50	0.00	
1,600.00	20.00	77.83	1,583.85	29.14	135.11	138.21	2.50	2.50	0.00	
1,700.00	22.50	77.83	1,677.05	36.78	170.53	174.45	2.50	2.50	0.00	
1,800.00	25.00	77.83	1,768.57	45.27	209.90	214.73	2.50	2.50	0.00	
1,900.00	27.50	77.83	1,858.25	54.60	253.13	258.95	2.50	2.50	0.00	
2,000.00	30.00	77.83	1,945.92	64.74	300.14	307.05	2.50	2.50	0.00	
2,100.00	32.50	77.83	2,031.40	75.68	350.85	358.92	2.50	2.50	0.00	
2,198.97	34.97	77.83	2,113.70	87.27	404.58	413.88	2.50	2.50	0.00	
2,200.00	34.97	77.83	2,114.54	87.39	405.15	414.47	0.00	0.00	0.00	
2,300.00	34.97	77.83	2,196.48	99.48	461.19	471.79	0.00	0.00	0.00	
2,400.00	34.97	77.83	2,278.42	111.56	517.22	529.11	0.00	0.00	0.00	
2,500.00	34.97	77.83	2,360.36	123.65	573.25	586.43	0.00	0.00	0.00	
2,600.00	34.97	77.83	2,442.30	135.73	629.28	643.76	0.00	0.00	0.00	
2,700.00	34.97	77.83	2,524.25	147.82	685.32	701.08	0.00	0.00	0.00	
2,800.00	34.97	77.83	2,606.19	159.90	741.35	758.40	0.00	0.00	0.00	
2,900.00	34.97	77.83	2,688.13	171.99	797.38	815.72	0.00	0.00	0.00	
3,000.00	34.97	77.83	2,770.07	184.08	853.41	873.04	0.00	0.00	0.00	
3,100.00	34.97	77.83	2,852.01	196.16	909.44	930.36	0.00	0.00	0.00	
3,200.00	34.97	77.83	2,933.95	208.25	965.48	987.68	0.00	0.00	0.00	
3,300.00	34.97	77.83	3,015.89	220.33	1,021.51	1,045.00	0.00	0.00	0.00	
3,381.29	34.97	77.83	3,082.50	230.16	1,067.06	1,091.60	0.00	0.00	0.00	
3,400.00	34.69	77.83	3,097.86	232.41	1,077.50	1,102.28	1.50	-1.50	0.00	
3,500.00	33.19	77.83	3,180.81	244.18	1,132.09	1,158.12	1.50	-1.50	0.00	
3,600.00	31.69	77.83	3,265.20	255.50	1,184.53	1,211.77	1.50	-1.50	0.00	
3,700.00	30.19	77.83	3,350.97	266.34	1,234.79	1,263.18	1.50	-1.50	0.00	
3,800.00	28.69	77.83	3,438.05	276.70	1,282.84	1,312.34	1.50	-1.50	0.00	
3,900.00	27.19	77.83	3,526.39	286.58	1,328.64	1,359.20	1.50	-1.50	0.00	
4,000.00	25.69	77.83	3,615.92	295.97	1,372.17	1,403.73	1.50	-1.50	0.00	
4,100.00	24.19	77.83	3,706.59	304.86	1,413.40	1,445.90	1.50	-1.50	0.00	
4,200.00	22.69	77.83	3,798.34	313.25	1,452.28	1,485.68	1.50	-1.50	0.00	
4,300.00	21.19	77.83	3,891.09	321.13	1,488.81	1,523.05	1.50	-1.50	0.00	
4,400.00	19.69	77.83	3,984.79	328.49	1,522.96	1,557.98	1.50	-1.50	0.00	
4,500.00	18.19	77.83	4,079.37	335.34	1,554.69	1,590.44	1.50	-1.50	0.00	
4,600.00	16.69	77.83	4,174.77	341.66	1,583.99	1,620.42	1.50	-1.50	0.00	
4,700.00	15.19	77.83	4,270.92	347.45	1,610.84	1,647.89	1.50	-1.50	0.00	
4,800.00	13.69	77.83	4,367.75	352.71	1,635.22	1,672.83	1.50	-1.50	0.00	
4,900.00	12.19	77.83	4,465.21	357.43	1,657.12	1,695.23	1.50	-1.50	0.00	
5,000.00	10.69	77.83	4,563.22	361.61	1,676.51	1,715.07	1.50	-1.50	0.00	

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Well:	GGU Federal 33C-19-691	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)
5,100.00	9.19	77.83	4,661.71	365.26	1,693.39	1,732.34	1.50	-1.50	0.00
5,200.00	7.69	77.83	4,760.63	368.35	1,707.74	1,747.02	1.50	-1.50	0.00
5,300.00	6.19	77.83	4,859.89	370.90	1,719.56	1,759.11	1.50	-1.50	0.00
5,400.00	4.69	77.83	4,959.44	372.90	1,728.83	1,768.59	1.50	-1.50	0.00
5,500.00	3.19	77.83	5,059.20	374.35	1,735.56	1,775.47	1.50	-1.50	0.00
5,600.00	1.69	77.83	5,159.10	375.25	1,739.73	1,779.73	1.50	-1.50	0.00
5,700.00	0.19	77.83	5,259.09	375.60	1,741.34	1,781.38	1.50	-1.50	0.00
5,712.91	0.00	0.00	5,272.00	375.60	1,741.36	1,781.40	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,359.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
5,900.00	0.00	0.00	5,459.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,000.00	0.00	0.00	5,559.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,100.00	0.00	0.00	5,659.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,200.00	0.00	0.00	5,759.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,300.00	0.00	0.00	5,859.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,400.00	0.00	0.00	5,959.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,500.00	0.00	0.00	6,059.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,600.00	0.00	0.00	6,159.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,700.00	0.00	0.00	6,259.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,800.00	0.00	0.00	6,359.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
6,900.00	0.00	0.00	6,459.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,000.00	0.00	0.00	6,559.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,100.00	0.00	0.00	6,659.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,200.00	0.00	0.00	6,759.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,300.00	0.00	0.00	6,859.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,400.00	0.00	0.00	6,959.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,500.00	0.00	0.00	7,059.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,600.00	0.00	0.00	7,159.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,700.00	0.00	0.00	7,259.09	375.60	1,741.36	1,781.40	0.00	0.00	0.00
7,712.91	0.00	0.00	7,272.00	375.60	1,741.36	1,781.40	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
800.00	800.00	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,793.10	3,432.00	Mesaverde		0.00	
4,670.00	4,242.00	Price Coal		0.00	
4,804.37	4,372.00	Top Gas		0.00	
7,412.91	6,972.00	Rollins		0.00	
7,712.00	7,271.09	TD		0.00	

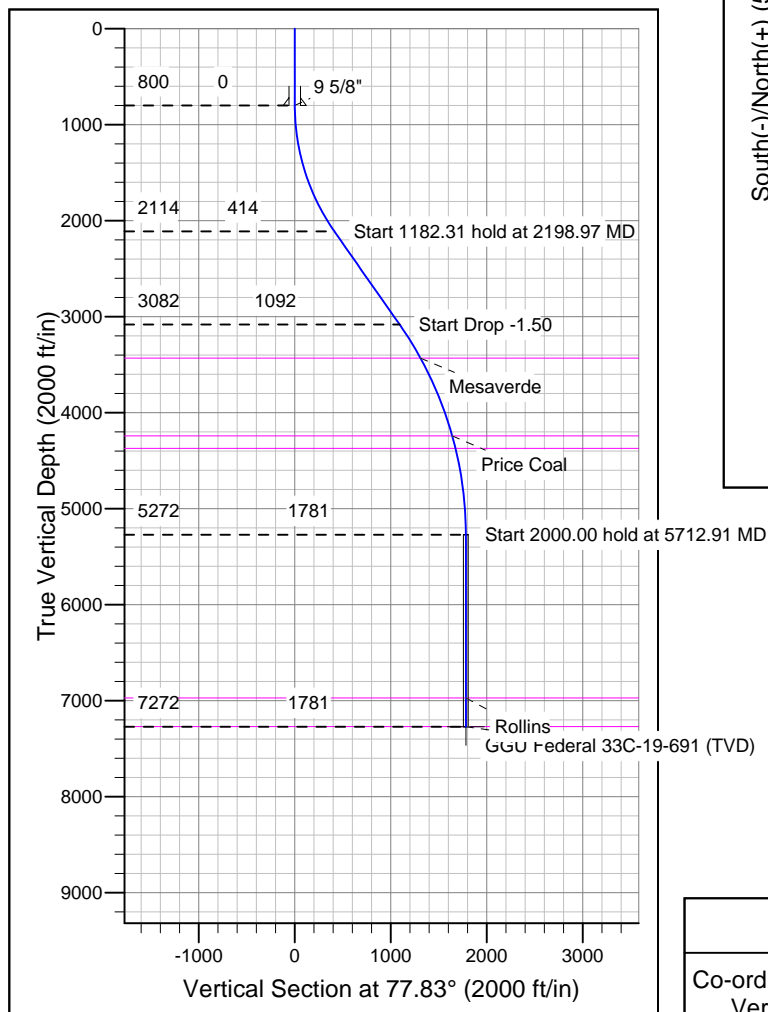
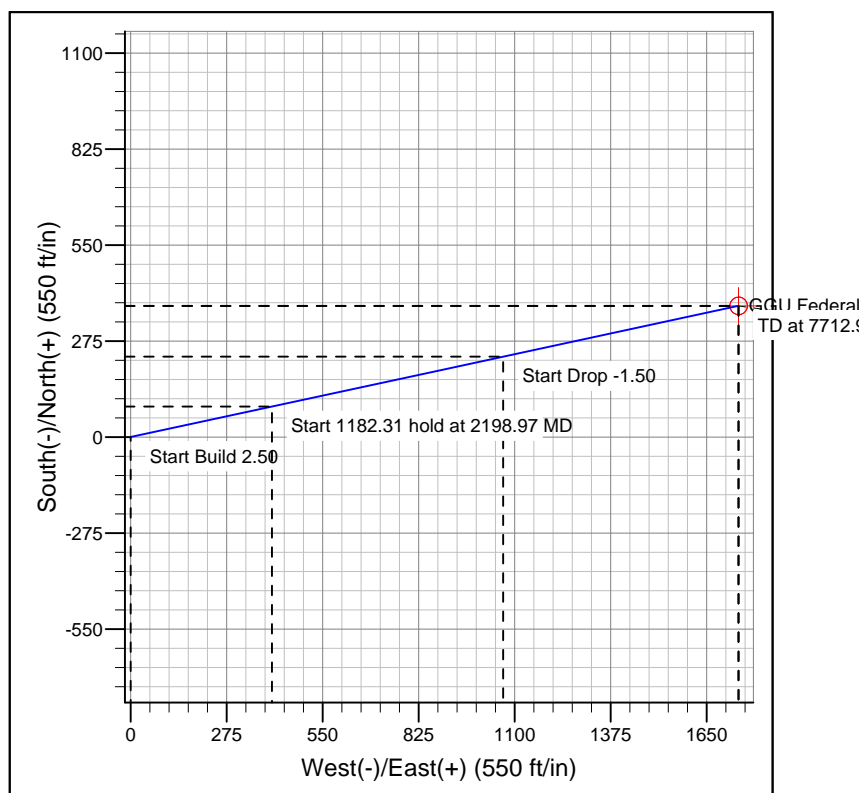
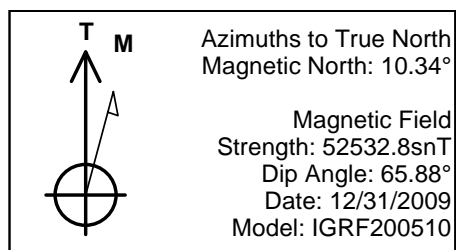
WELL DETAILS: GGU Federal 33C-19-691

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1617739.749	2407338.309	39° 30' 38.379 N	107° 36' 2.7684 W	

SECTION DETAILS

Sec	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	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	2198.97	34.97	77.83	2113.70	87.27	404.58	2.50	77.83	413.88	
4	3381.29	34.97	77.83	3082.50	230.16	1067.06	0.00	0.00	1091.60	
5	5712.91	0.00	0.00	5272.00	375.60	1741.36	1.50	180.00	1781.40	
6	7712.91	0.00	0.00	7272.00	375.60	1741.36	0.00	0.00	1781.40	GGU Federal 33C-19-691 (TVD)



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3432.00	3793.10	Mesaverde
4242.00	4670.00	Price Coal
4372.00	4804.37	Top Gas
6972.00	7412.91	Rollins
7271.09	7712.00	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal 33C-19-691, 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