

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #21

GGU Federal 13A-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 13A-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 13A-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 13A-19-691		
Well Position	+N/-S	159.52 ft	Northing:
	+E/-W	-706.77 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 38.369 N
			Longitude:
			107° 36' 3.3984 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	248.65

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	
1,393.85	14.85	248.65	1,387.22	-27.86	-71.26	2.50	2.50	0.00	248.65	
4,013.36	14.85	248.65	3,919.29	-272.26	-696.36	0.00	0.00	0.00	0.00	
5,003.11	0.00	0.00	4,898.00	-318.69	-815.12	1.50	-1.50	0.00	180.00	
7,503.11	0.00	0.00	7,398.00	-318.69	-815.12	0.00	0.00	0.00	0.00	GGU Federal 13A-1

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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 13A-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	248.65	899.97	-0.79	-2.03	2.18	2.50	2.50	0.00	
1,000.00	5.00	248.65	999.75	-3.18	-8.12	8.72	2.50	2.50	0.00	
1,100.00	7.50	248.65	1,099.14	-7.14	-18.26	19.61	2.50	2.50	0.00	
1,200.00	10.00	248.65	1,197.97	-12.68	-32.43	34.82	2.50	2.50	0.00	
1,300.00	12.50	248.65	1,296.04	-19.78	-50.60	54.33	2.50	2.50	0.00	
1,393.85	14.85	248.65	1,387.22	-27.86	-71.26	76.51	2.50	2.50	0.00	
1,400.00	14.85	248.65	1,393.17	-28.43	-72.72	78.08	0.00	0.00	0.00	
1,500.00	14.85	248.65	1,489.83	-37.76	-96.59	103.71	0.00	0.00	0.00	
1,600.00	14.85	248.65	1,586.50	-47.09	-120.45	129.33	0.00	0.00	0.00	
1,700.00	14.85	248.65	1,683.16	-56.42	-144.31	154.95	0.00	0.00	0.00	
1,800.00	14.85	248.65	1,779.82	-65.75	-168.18	180.57	0.00	0.00	0.00	
1,900.00	14.85	248.65	1,876.48	-75.08	-192.04	206.20	0.00	0.00	0.00	
2,000.00	14.85	248.65	1,973.14	-84.41	-215.90	231.82	0.00	0.00	0.00	
2,100.00	14.85	248.65	2,069.80	-93.74	-239.77	257.44	0.00	0.00	0.00	
2,200.00	14.85	248.65	2,166.47	-103.07	-263.63	283.06	0.00	0.00	0.00	
2,300.00	14.85	248.65	2,263.13	-112.40	-287.49	308.69	0.00	0.00	0.00	
2,400.00	14.85	248.65	2,359.79	-121.73	-311.36	334.31	0.00	0.00	0.00	
2,500.00	14.85	248.65	2,456.45	-131.06	-335.22	359.93	0.00	0.00	0.00	
2,600.00	14.85	248.65	2,553.11	-140.39	-359.08	385.55	0.00	0.00	0.00	
2,700.00	14.85	248.65	2,649.77	-149.72	-382.95	411.18	0.00	0.00	0.00	
2,800.00	14.85	248.65	2,746.44	-159.05	-406.81	436.80	0.00	0.00	0.00	
2,900.00	14.85	248.65	2,843.10	-168.38	-430.67	462.42	0.00	0.00	0.00	
3,000.00	14.85	248.65	2,939.76	-177.71	-454.54	488.04	0.00	0.00	0.00	
3,100.00	14.85	248.65	3,036.42	-187.04	-478.40	513.67	0.00	0.00	0.00	
3,200.00	14.85	248.65	3,133.08	-196.37	-502.26	539.29	0.00	0.00	0.00	
3,300.00	14.85	248.65	3,229.74	-205.70	-526.13	564.91	0.00	0.00	0.00	
3,400.00	14.85	248.65	3,326.41	-215.03	-549.99	590.53	0.00	0.00	0.00	
3,500.00	14.85	248.65	3,423.07	-224.36	-573.85	616.16	0.00	0.00	0.00	
3,600.00	14.85	248.65	3,519.73	-233.69	-597.72	641.78	0.00	0.00	0.00	
3,700.00	14.85	248.65	3,616.39	-243.02	-621.58	667.40	0.00	0.00	0.00	
3,800.00	14.85	248.65	3,713.05	-252.35	-645.45	693.02	0.00	0.00	0.00	
3,900.00	14.85	248.65	3,809.71	-261.68	-669.31	718.65	0.00	0.00	0.00	
4,000.00	14.85	248.65	3,906.38	-271.01	-693.17	744.27	0.00	0.00	0.00	
4,013.36	14.85	248.65	3,919.29	-272.26	-696.36	747.69	0.00	0.00	0.00	
4,100.00	13.55	248.65	4,003.28	-280.00	-716.15	768.94	1.50	-1.50	0.00	
4,200.00	12.05	248.65	4,100.80	-288.06	-736.78	791.09	1.50	-1.50	0.00	
4,300.00	10.55	248.65	4,198.86	-295.19	-755.02	810.68	1.50	-1.50	0.00	
4,400.00	9.05	248.65	4,297.40	-301.39	-770.87	827.69	1.50	-1.50	0.00	
4,500.00	7.55	248.65	4,396.35	-306.64	-784.31	842.12	1.50	-1.50	0.00	
4,600.00	6.05	248.65	4,495.64	-310.95	-795.33	853.95	1.50	-1.50	0.00	
4,700.00	4.55	248.65	4,595.21	-314.31	-803.92	863.18	1.50	-1.50	0.00	
4,800.00	3.05	248.65	4,694.99	-316.72	-810.09	869.81	1.50	-1.50	0.00	
4,900.00	1.55	248.65	4,794.90	-318.18	-813.82	873.81	1.50	-1.50	0.00	
5,000.00	0.05	248.65	4,894.89	-318.69	-815.12	875.20	1.50	-1.50	0.00	

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Site:	MDP #21	North Reference:	True
Well:	GGU Federal 13A-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)
5,003.11	0.00	0.00	4,898.00	-318.69	-815.12	875.20	1.50	-1.50	0.00
5,100.00	0.00	0.00	4,994.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,200.00	0.00	0.00	5,094.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,300.00	0.00	0.00	5,194.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,400.00	0.00	0.00	5,294.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,500.00	0.00	0.00	5,394.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,600.00	0.00	0.00	5,494.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,700.00	0.00	0.00	5,594.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,800.00	0.00	0.00	5,694.89	-318.69	-815.12	875.20	0.00	0.00	0.00
5,900.00	0.00	0.00	5,794.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,000.00	0.00	0.00	5,894.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,100.00	0.00	0.00	5,994.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,200.00	0.00	0.00	6,094.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,300.00	0.00	0.00	6,194.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,400.00	0.00	0.00	6,294.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,500.00	0.00	0.00	6,394.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,600.00	0.00	0.00	6,494.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,700.00	0.00	0.00	6,594.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,800.00	0.00	0.00	6,694.89	-318.69	-815.12	875.20	0.00	0.00	0.00
6,900.00	0.00	0.00	6,794.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,000.00	0.00	0.00	6,894.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,100.00	0.00	0.00	6,994.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,200.00	0.00	0.00	7,094.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,300.00	0.00	0.00	7,194.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,400.00	0.00	0.00	7,294.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,500.00	0.00	0.00	7,394.89	-318.69	-815.12	875.20	0.00	0.00	0.00
7,503.11	0.00	0.00	7,398.00	-318.69	-815.12	875.20	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

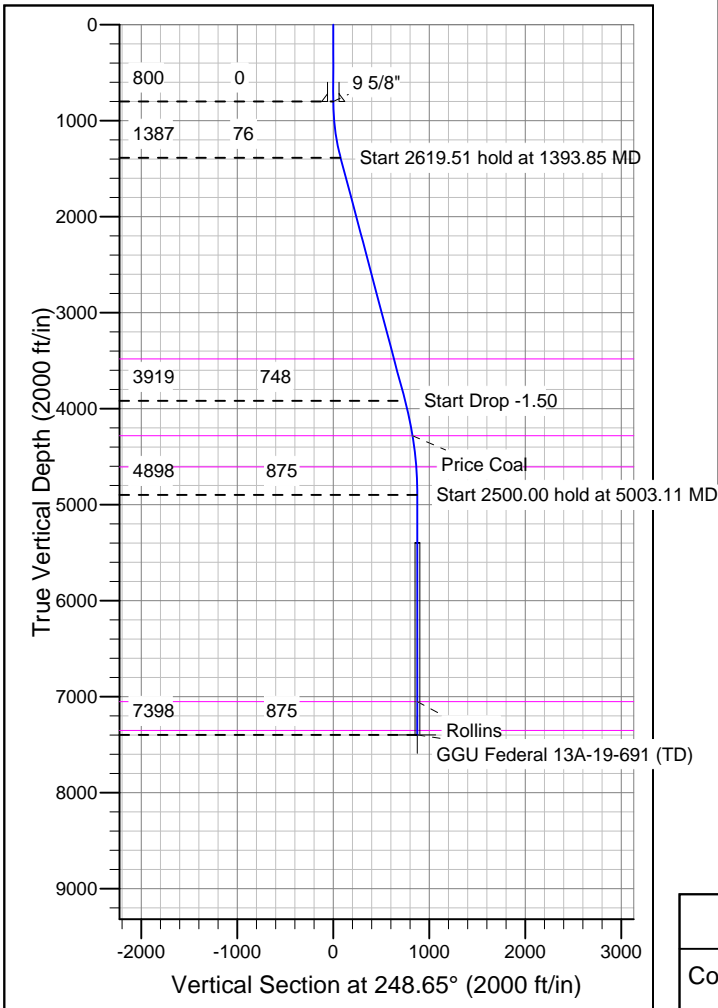
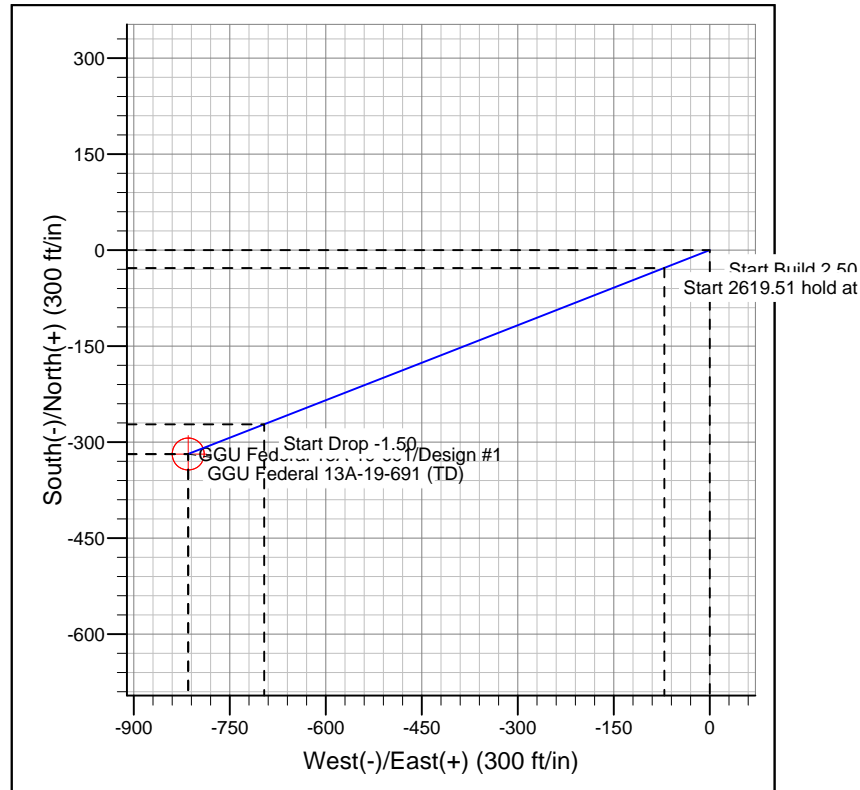
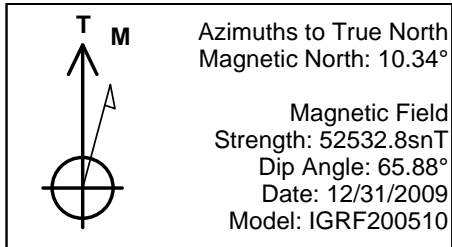
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,560.97	3,482.00	Mesaverde		0.00	
4,384.41	4,282.00	Price Coal		0.00	
4,711.83	4,607.00	Top Gas		0.00	
7,157.11	7,052.00	Rollins		0.00	
7,457.11	7,352.00	TD		0.00	

WELL DETAILS: GGU Federal 13A-19-691

			Ground Level:	0.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1617739.799	2407288.923	39° 30' 38.369 N	107° 36' 3.3984 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	1393.85	14.85	248.65	1387.22	-27.86	-71.26	2.50	248.65	76.51	
4	4013.36	14.85	248.65	3919.29	-272.26	-696.36	0.00	0.00	747.69	
5	5003.11	0.00	0.00	4898.00	-318.69	-815.12	1.50	180.00	875.20	
6	7503.11	0.00	0.00	7398.00	-318.69	-815.12	0.00	0.00	875.20	GGU Federal 13A-19-691 (TD)



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3482.00	3560.97	Mesaverde
4282.00	4384.41	Price Coal
4607.00	4711.83	Top Gas
7052.00	7157.11	Rollins
7352.00	7457.11	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal 13A-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