

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #21

GGU Federal 13B-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 13B-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 13B-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 13B-19-691		
Well Position	+N/-S	162.80 ft	Northing:
	+E/-W	-722.57 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 38.401 N
			Longitude:
			107° 36' 3.6000 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	270.13

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	
1,330.68	13.27	270.13	1,325.95	0.14	-61.17	2.50	2.50	0.00	270.13	
4,110.34	13.27	270.13	4,031.42	1.60	-699.06	0.00	0.00	0.00	0.00	
4,994.80	0.00	0.00	4,908.00	1.84	-801.00	1.50	-1.50	0.00	180.00	
7,494.80	0.00	0.00	7,408.00	1.84	-801.00	0.00	0.00	0.00	0.00	GGU Federal 13B-1

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal 13B-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 13B-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	270.13	899.97	0.01	-2.18	2.18	2.50	2.50	0.00	
1,000.00	5.00	270.13	999.75	0.02	-8.72	8.72	2.50	2.50	0.00	
1,100.00	7.50	270.13	1,099.14	0.04	-19.61	19.61	2.50	2.50	0.00	
1,200.00	10.00	270.13	1,197.97	0.08	-34.82	34.82	2.50	2.50	0.00	
1,300.00	12.50	270.13	1,296.04	0.12	-54.33	54.33	2.50	2.50	0.00	
1,330.68	13.27	270.13	1,325.95	0.14	-61.17	61.17	2.50	2.50	0.00	
1,400.00	13.27	270.13	1,393.42	0.18	-77.07	77.07	0.00	0.00	0.00	
1,500.00	13.27	270.13	1,490.75	0.23	-100.02	100.02	0.00	0.00	0.00	
1,600.00	13.27	270.13	1,588.08	0.28	-122.97	122.97	0.00	0.00	0.00	
1,700.00	13.27	270.13	1,685.41	0.33	-145.92	145.92	0.00	0.00	0.00	
1,800.00	13.27	270.13	1,782.75	0.39	-168.87	168.87	0.00	0.00	0.00	
1,900.00	13.27	270.13	1,880.08	0.44	-191.82	191.82	0.00	0.00	0.00	
2,000.00	13.27	270.13	1,977.41	0.49	-214.77	214.77	0.00	0.00	0.00	
2,100.00	13.27	270.13	2,074.74	0.55	-237.71	237.72	0.00	0.00	0.00	
2,200.00	13.27	270.13	2,172.07	0.60	-260.66	260.66	0.00	0.00	0.00	
2,300.00	13.27	270.13	2,269.40	0.65	-283.61	283.61	0.00	0.00	0.00	
2,400.00	13.27	270.13	2,366.73	0.70	-306.56	306.56	0.00	0.00	0.00	
2,500.00	13.27	270.13	2,464.06	0.76	-329.51	329.51	0.00	0.00	0.00	
2,600.00	13.27	270.13	2,561.39	0.81	-352.46	352.46	0.00	0.00	0.00	
2,700.00	13.27	270.13	2,658.73	0.86	-375.41	375.41	0.00	0.00	0.00	
2,800.00	13.27	270.13	2,756.06	0.91	-398.36	398.36	0.00	0.00	0.00	
2,900.00	13.27	270.13	2,853.39	0.97	-421.30	421.31	0.00	0.00	0.00	
3,000.00	13.27	270.13	2,950.72	1.02	-444.25	444.25	0.00	0.00	0.00	
3,100.00	13.27	270.13	3,048.05	1.07	-467.20	467.20	0.00	0.00	0.00	
3,200.00	13.27	270.13	3,145.38	1.12	-490.15	490.15	0.00	0.00	0.00	
3,300.00	13.27	270.13	3,242.71	1.18	-513.10	513.10	0.00	0.00	0.00	
3,400.00	13.27	270.13	3,340.04	1.23	-536.05	536.05	0.00	0.00	0.00	
3,500.00	13.27	270.13	3,437.37	1.28	-559.00	559.00	0.00	0.00	0.00	
3,600.00	13.27	270.13	3,534.71	1.34	-581.94	581.95	0.00	0.00	0.00	
3,700.00	13.27	270.13	3,632.04	1.39	-604.89	604.89	0.00	0.00	0.00	
3,800.00	13.27	270.13	3,729.37	1.44	-627.84	627.84	0.00	0.00	0.00	
3,900.00	13.27	270.13	3,826.70	1.49	-650.79	650.79	0.00	0.00	0.00	
4,000.00	13.27	270.13	3,924.03	1.55	-673.74	673.74	0.00	0.00	0.00	
4,100.00	13.27	270.13	4,021.36	1.60	-696.69	696.69	0.00	0.00	0.00	
4,110.34	13.27	270.13	4,031.42	1.60	-699.06	699.06	0.00	0.00	0.00	
4,200.00	11.92	270.13	4,118.93	1.65	-718.61	718.61	1.50	-1.50	0.00	
4,300.00	10.42	270.13	4,217.03	1.69	-737.99	737.99	1.50	-1.50	0.00	
4,400.00	8.92	270.13	4,315.60	1.73	-754.79	754.79	1.50	-1.50	0.00	
4,500.00	7.42	270.13	4,414.59	1.76	-769.00	769.00	1.50	-1.50	0.00	
4,600.00	5.92	270.13	4,513.91	1.79	-780.62	780.62	1.50	-1.50	0.00	
4,700.00	4.42	270.13	4,613.50	1.81	-789.63	789.63	1.50	-1.50	0.00	
4,800.00	2.92	270.13	4,713.29	1.83	-796.04	796.04	1.50	-1.50	0.00	
4,900.00	1.42	270.13	4,813.21	1.84	-799.83	799.83	1.50	-1.50	0.00	
4,994.80	0.00	0.00	4,908.00	1.84	-801.00	801.00	1.50	-1.50	0.00	

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal 13B-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 13B-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)	
5,000.00	0.00	0.00	4,913.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,013.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,113.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,213.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,313.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,413.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,513.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,613.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,713.20	1.84	-801.00	801.00	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,813.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,913.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,013.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,113.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,213.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,313.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,413.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,513.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,613.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,713.20	1.84	-801.00	801.00	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,813.20	1.84	-801.00	801.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,913.20	1.84	-801.00	801.00	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,013.20	1.84	-801.00	801.00	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,113.20	1.84	-801.00	801.00	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,213.20	1.84	-801.00	801.00	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,313.20	1.84	-801.00	801.00	0.00	0.00	0.00	
7,494.80	0.00	0.00	7,408.00	1.84	-801.00	801.00	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 (°)	
3,545.85	3,482.00	Mesaverde		0.00		
4,365.96	4,282.00	Price Coal		0.00		
4,688.47	4,602.00	Top Gas		0.00		
7,148.80	7,062.00	Rollins		0.00		
7,448.80	7,362.00	TD		0.00		

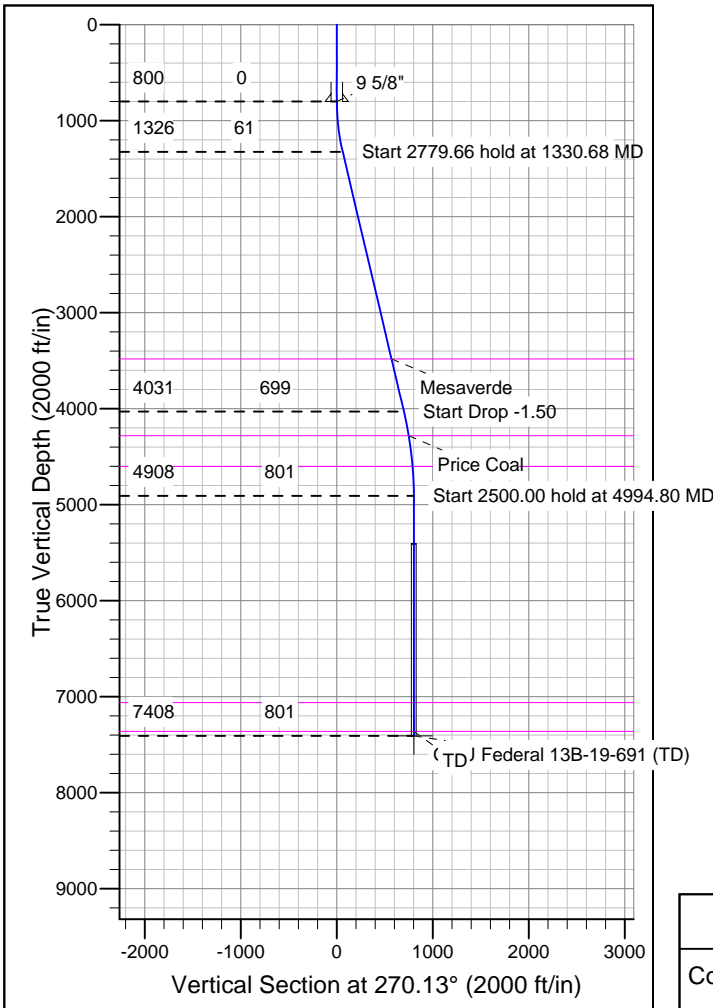
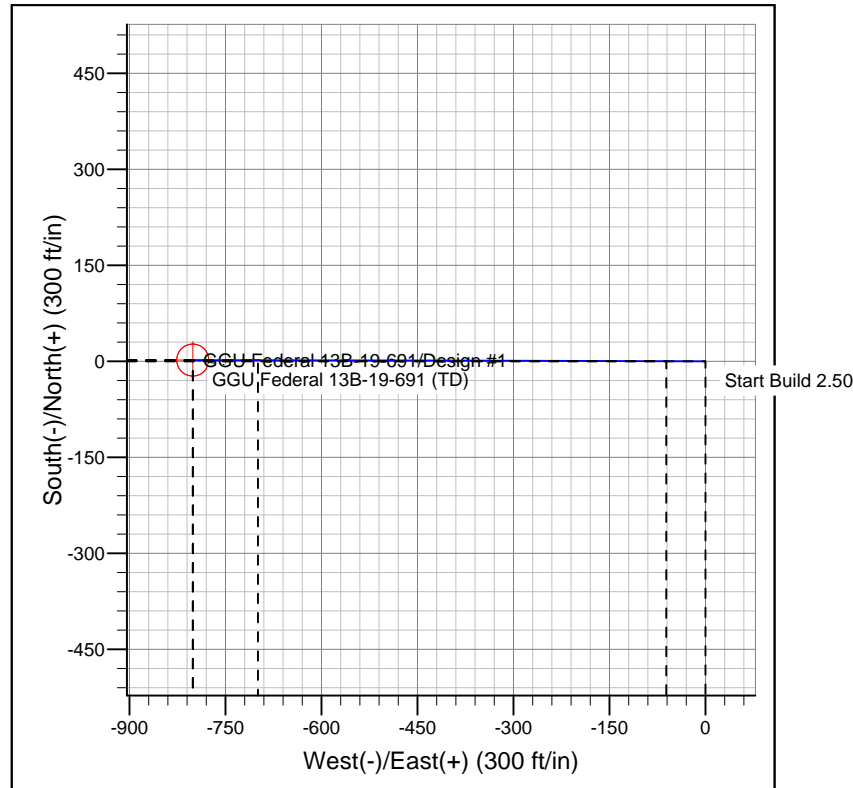
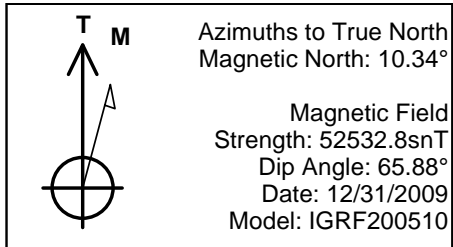
WELL DETAILS: GGU Federal 13B-19-691

Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1617743.446	2407273.203	39° 30' 38.401 N	107° 36' 3.6000 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	1330.68	13.27	270.13	1325.95	0.14	-61.17	2.50	270.13	61.17	
4	4110.34	13.27	270.13	4031.42	1.60	-699.06	0.00	0.00	699.06	
5	4994.80	0.00	0.00	4908.00	1.84	-801.00	1.50	180.00	801.00	
6	7494.80	0.00	0.00	7408.00	1.84	-801.00	0.00	0.00	801.00	GGU Federal 13B-19-691 (TD)



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3482.00	3545.85	Mesaverde
4282.00	4365.96	Price Coal
4602.00	4688.47	Top Gas
7062.00	7148.80	Rollins
7362.00	7448.80	TD

REFERENCE INFORMATION

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