

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #22

GGU Federal 43B-19-691

Wellbore #1

Plan: Design #1

Standard Planning Report

06 October, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well GGU Federal 43B-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 #22	North Reference:	True
Well:	GGU Federal 43B-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 #22		
Site Position:		Northing:	1,617,744.730 ft
From:	Lat/Long	Easting:	2,409,758.995 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	39° 30' 38.981 N
		Longitude:	107° 35' 31.8912 W
		Grid Convergence:	-1.32 °

Well	GGU Federal 43B-19-691		
Well Position	+N/-S	869.42 ft	Northing:
	+E/-W	917.81 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 47.574 N
			Longitude:
			107° 35' 20.1804 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	52,536

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	197.71

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	
1,323.71	13.09	197.71	1,319.16	-56.75	-18.12	2.50	2.50	0.00	197.71	
4,573.76	13.09	197.71	4,484.73	-758.09	-242.06	0.00	0.00	0.00	0.00	
5,446.61	0.00	0.00	5,350.00	-852.68	-272.27	1.50	-1.50	0.00	180.00	
7,446.61	0.00	0.00	7,350.00	-852.68	-272.27	0.00	0.00	0.00	0.00	GGU Federal 43B-1

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Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #22	North Reference:	True
Well:	GGU Federal 43B-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	197.71	899.97	-2.08	-0.66	2.18	2.50	2.50	0.00	
1,000.00	5.00	197.71	999.75	-8.31	-2.65	8.72	2.50	2.50	0.00	
1,100.00	7.50	197.71	1,099.14	-18.68	-5.96	19.61	2.50	2.50	0.00	
1,200.00	10.00	197.71	1,197.97	-33.17	-10.59	34.82	2.50	2.50	0.00	
1,300.00	12.50	197.71	1,296.04	-51.75	-16.52	54.33	2.50	2.50	0.00	
1,323.71	13.09	197.71	1,319.16	-56.75	-18.12	59.58	2.50	2.50	0.00	
1,400.00	13.09	197.71	1,393.47	-73.22	-23.38	76.86	0.00	0.00	0.00	
1,500.00	13.09	197.71	1,490.87	-94.80	-30.27	99.51	0.00	0.00	0.00	
1,600.00	13.09	197.71	1,588.27	-116.38	-37.16	122.16	0.00	0.00	0.00	
1,700.00	13.09	197.71	1,685.67	-137.95	-44.05	144.82	0.00	0.00	0.00	
1,800.00	13.09	197.71	1,783.07	-159.53	-50.94	167.47	0.00	0.00	0.00	
1,900.00	13.09	197.71	1,880.47	-181.11	-57.83	190.12	0.00	0.00	0.00	
2,000.00	13.09	197.71	1,977.87	-202.69	-64.72	212.77	0.00	0.00	0.00	
2,100.00	13.09	197.71	2,075.27	-224.27	-71.61	235.43	0.00	0.00	0.00	
2,200.00	13.09	197.71	2,172.67	-245.85	-78.50	258.08	0.00	0.00	0.00	
2,300.00	13.09	197.71	2,270.08	-267.43	-85.39	280.73	0.00	0.00	0.00	
2,400.00	13.09	197.71	2,367.48	-289.01	-92.28	303.39	0.00	0.00	0.00	
2,500.00	13.09	197.71	2,464.88	-310.59	-99.17	326.04	0.00	0.00	0.00	
2,600.00	13.09	197.71	2,562.28	-332.17	-106.06	348.69	0.00	0.00	0.00	
2,700.00	13.09	197.71	2,659.68	-353.75	-112.95	371.34	0.00	0.00	0.00	
2,800.00	13.09	197.71	2,757.08	-375.33	-119.84	394.00	0.00	0.00	0.00	
2,900.00	13.09	197.71	2,854.48	-396.91	-126.73	416.65	0.00	0.00	0.00	
3,000.00	13.09	197.71	2,951.88	-418.49	-133.63	439.30	0.00	0.00	0.00	
3,100.00	13.09	197.71	3,049.28	-440.06	-140.52	461.95	0.00	0.00	0.00	
3,200.00	13.09	197.71	3,146.68	-461.64	-147.41	484.61	0.00	0.00	0.00	
3,300.00	13.09	197.71	3,244.08	-483.22	-154.30	507.26	0.00	0.00	0.00	
3,400.00	13.09	197.71	3,341.48	-504.80	-161.19	529.91	0.00	0.00	0.00	
3,500.00	13.09	197.71	3,438.88	-526.38	-168.08	552.56	0.00	0.00	0.00	
3,600.00	13.09	197.71	3,536.28	-547.96	-174.97	575.22	0.00	0.00	0.00	
3,700.00	13.09	197.71	3,633.68	-569.54	-181.86	597.87	0.00	0.00	0.00	
3,800.00	13.09	197.71	3,731.08	-591.12	-188.75	620.52	0.00	0.00	0.00	
3,900.00	13.09	197.71	3,828.48	-612.70	-195.64	643.18	0.00	0.00	0.00	
4,000.00	13.09	197.71	3,925.88	-634.28	-202.53	665.83	0.00	0.00	0.00	
4,100.00	13.09	197.71	4,023.28	-655.86	-209.42	688.48	0.00	0.00	0.00	
4,200.00	13.09	197.71	4,120.68	-677.44	-216.31	711.13	0.00	0.00	0.00	
4,300.00	13.09	197.71	4,218.09	-699.02	-223.20	733.79	0.00	0.00	0.00	
4,400.00	13.09	197.71	4,315.49	-720.60	-230.09	756.44	0.00	0.00	0.00	
4,500.00	13.09	197.71	4,412.89	-742.17	-236.98	779.09	0.00	0.00	0.00	
4,573.76	13.09	197.71	4,484.73	-758.09	-242.06	795.80	0.00	0.00	0.00	
4,600.00	12.70	197.71	4,510.31	-763.67	-243.84	801.66	1.50	-1.50	0.00	
4,700.00	11.20	197.71	4,608.14	-783.39	-250.14	822.36	1.50	-1.50	0.00	
4,800.00	9.70	197.71	4,706.48	-800.67	-255.66	840.50	1.50	-1.50	0.00	
4,900.00	8.20	197.71	4,805.26	-815.49	-260.39	856.05	1.50	-1.50	0.00	
5,000.00	6.70	197.71	4,904.41	-827.84	-264.33	869.01	1.50	-1.50	0.00	

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Site:	MDP #22	North Reference:	True
Well:	GGU Federal 43B-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	5.20	197.71	5,003.87	-837.71	-267.49	879.38	1.50	-1.50	0.00
5,200.00	3.70	197.71	5,103.56	-845.10	-269.85	887.14	1.50	-1.50	0.00
5,300.00	2.20	197.71	5,203.43	-850.00	-271.41	892.28	1.50	-1.50	0.00
5,400.00	0.70	197.71	5,303.39	-852.41	-272.18	894.81	1.50	-1.50	0.00
5,446.61	0.00	0.00	5,350.00	-852.68	-272.27	895.09	1.50	-1.50	0.00
5,500.00	0.00	0.00	5,403.39	-852.68	-272.27	895.09	0.00	0.00	0.00
5,600.00	0.00	0.00	5,503.39	-852.68	-272.27	895.09	0.00	0.00	0.00
5,700.00	0.00	0.00	5,603.39	-852.68	-272.27	895.09	0.00	0.00	0.00
5,800.00	0.00	0.00	5,703.39	-852.68	-272.27	895.09	0.00	0.00	0.00
5,900.00	0.00	0.00	5,803.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,000.00	0.00	0.00	5,903.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,100.00	0.00	0.00	6,003.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,200.00	0.00	0.00	6,103.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,300.00	0.00	0.00	6,203.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,400.00	0.00	0.00	6,303.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,500.00	0.00	0.00	6,403.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,600.00	0.00	0.00	6,503.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,700.00	0.00	0.00	6,603.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,800.00	0.00	0.00	6,703.39	-852.68	-272.27	895.09	0.00	0.00	0.00
6,900.00	0.00	0.00	6,803.39	-852.68	-272.27	895.09	0.00	0.00	0.00
7,000.00	0.00	0.00	6,903.39	-852.68	-272.27	895.09	0.00	0.00	0.00
7,100.00	0.00	0.00	7,003.39	-852.68	-272.27	895.09	0.00	0.00	0.00
7,200.00	0.00	0.00	7,103.39	-852.68	-272.27	895.09	0.00	0.00	0.00
7,300.00	0.00	0.00	7,203.39	-852.68	-272.27	895.09	0.00	0.00	0.00
7,400.00	0.00	0.00	7,303.39	-852.68	-272.27	895.09	0.00	0.00	0.00
7,446.61	0.00	0.00	7,350.00	-852.68	-272.27	895.09	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
745.00	745.00	9 5/8"	9-5/8	12-1/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,470.35	3,410.00	Mesaverde		0.00	
4,404.63	4,320.00	Price Coal		0.00	
4,481.64	4,395.00	Top Gas		0.00	
7,146.61	7,050.00	Rollins		0.00	
7,446.61	7,350.00	TD		0.00	

WELL DETAILS: GGU Federal 43B-19-691

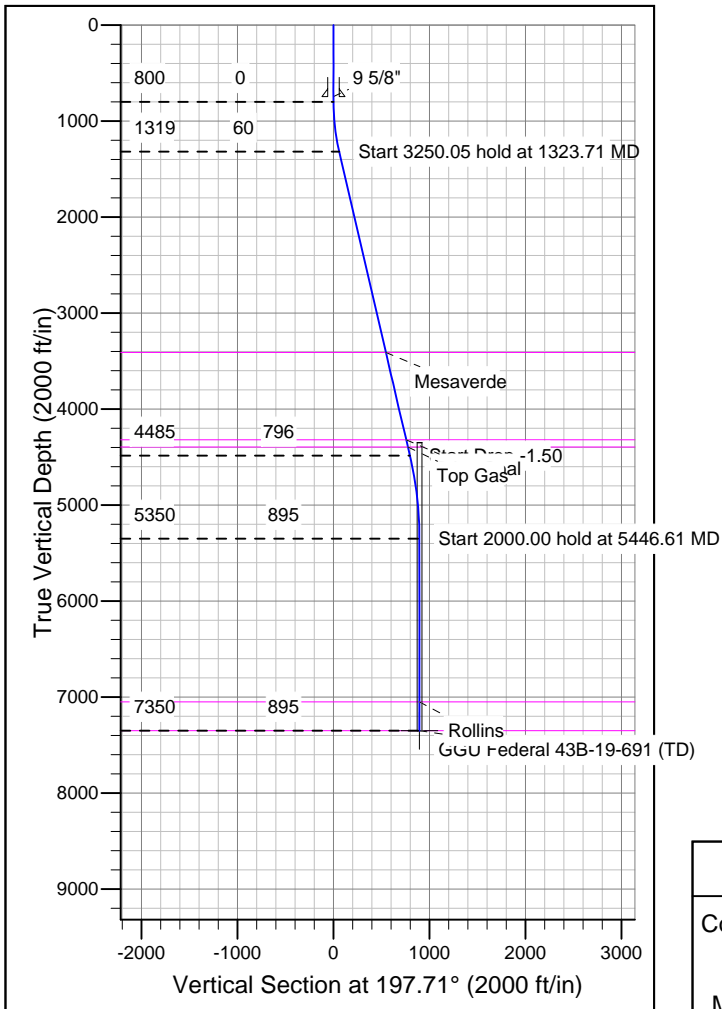
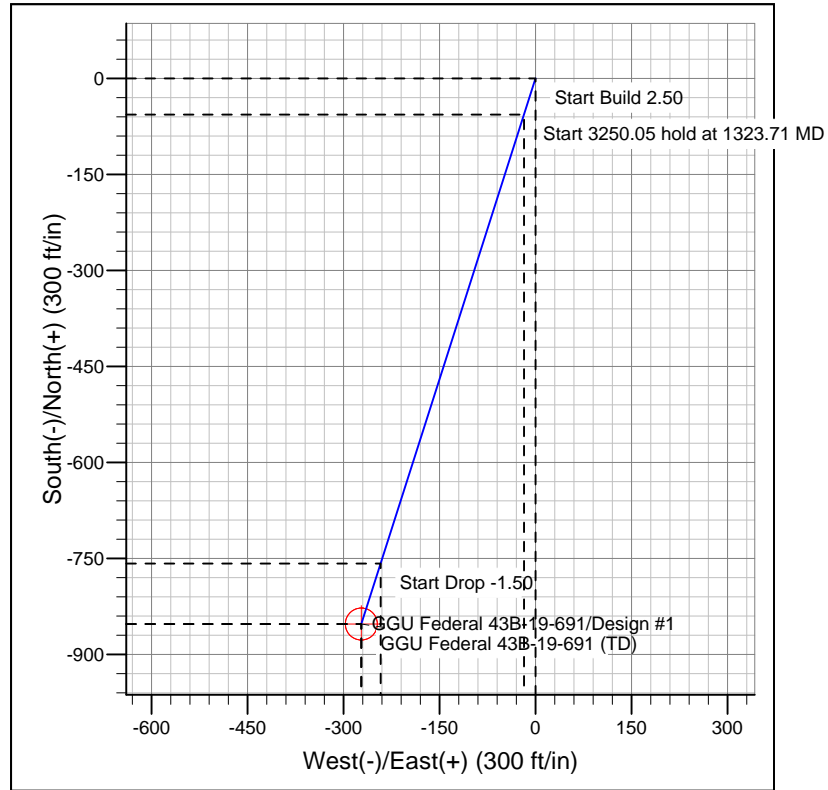
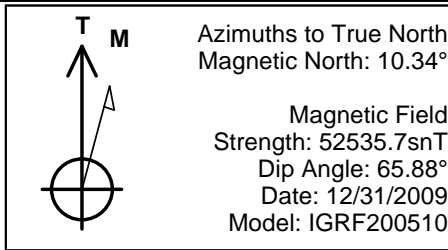
Ground Level: 0.00								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot		
0.00	0.00	1618592.817	2410696.547	39° 30' 47.574 N	107° 35' 20.1804 W			

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	1323.71	13.09	197.71	1319.16	-56.75	-18.12	2.50	197.71	59.58	
4	4573.76	13.09	197.71	4484.73	-758.09	-242.06	0.00	0.00	795.80	
5	5446.61	0.00	0.00	5350.00	-852.68	-272.27	1.50	180.00	895.09	
6	7446.61	0.00	0.00	7350.00	-852.68	-272.27	0.00	0.00	895.09	GGU Federal 43B-19-691 (TD)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Federal 43B-19-691 (TD)	7350.00	-852.68	-272.27	Circle (Radius: 25.00)



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3410.00	3470.35	Mesaverde
4320.00	4404.63	Price Coal
4395.00	4481.64	Top Gas
7050.00	7146.61	Rollins
7350.00	7446.61	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal 43B-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