

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #22

GGU Federal 32D-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 32D-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 32D-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 32D-19-691		
Well Position	+N/-S	910.21 ft	Northing:
	+E/-W	968.31 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 47.977 N
			Longitude:
			107° 35' 19.5360 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	302.31

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	
2,389.88	39.75	302.31	2,265.39	283.11	-447.69	2.50	2.50	0.00	302.31	
3,270.76	39.75	302.31	2,942.68	584.15	-923.72	0.00	0.00	0.00	0.00	
5,920.55	0.00	0.00	5,385.00	1,056.00	-1,669.87	1.50	-1.50	0.00	180.00	
7,920.55	0.00	0.00	7,385.00	1,056.00	-1,669.87	0.00	0.00	0.00	0.00	GGU Federal 32D-

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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 #22	North Reference:	True
Well:	GGU Federal 32D-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	302.31	899.97	1.17	-1.84	2.18	2.50	2.50	0.00	
1,000.00	5.00	302.31	999.75	4.66	-7.37	8.72	2.50	2.50	0.00	
1,100.00	7.50	302.31	1,099.14	10.48	-16.57	19.61	2.50	2.50	0.00	
1,200.00	10.00	302.31	1,197.97	18.61	-29.43	34.82	2.50	2.50	0.00	
1,300.00	12.50	302.31	1,296.04	29.04	-45.91	54.33	2.50	2.50	0.00	
1,400.00	15.00	302.31	1,393.17	41.74	-66.00	78.09	2.50	2.50	0.00	
1,500.00	17.50	302.31	1,489.17	56.69	-89.65	106.07	2.50	2.50	0.00	
1,600.00	20.00	302.31	1,583.85	73.87	-116.82	138.21	2.50	2.50	0.00	
1,700.00	22.50	302.31	1,677.05	93.24	-147.45	174.45	2.50	2.50	0.00	
1,800.00	25.00	302.31	1,768.57	114.77	-181.48	214.73	2.50	2.50	0.00	
1,900.00	27.50	302.31	1,858.25	138.40	-218.86	258.95	2.50	2.50	0.00	
2,000.00	30.00	302.31	1,945.92	164.11	-259.51	307.05	2.50	2.50	0.00	
2,100.00	32.50	302.31	2,031.40	191.84	-303.35	358.92	2.50	2.50	0.00	
2,200.00	35.00	302.31	2,114.54	221.53	-350.30	414.47	2.50	2.50	0.00	
2,300.00	37.50	302.31	2,195.18	253.13	-400.28	473.60	2.50	2.50	0.00	
2,389.88	39.75	302.31	2,265.39	283.11	-447.69	529.70	2.50	2.50	0.00	
2,400.00	39.75	302.31	2,273.18	286.57	-453.16	536.17	0.00	0.00	0.00	
2,500.00	39.75	302.31	2,350.06	320.75	-507.20	600.11	0.00	0.00	0.00	
2,600.00	39.75	302.31	2,426.95	354.92	-561.24	664.05	0.00	0.00	0.00	
2,700.00	39.75	302.31	2,503.84	389.10	-615.28	727.99	0.00	0.00	0.00	
2,800.00	39.75	302.31	2,580.73	423.27	-669.32	791.93	0.00	0.00	0.00	
2,900.00	39.75	302.31	2,657.61	457.44	-723.36	855.87	0.00	0.00	0.00	
3,000.00	39.75	302.31	2,734.50	491.62	-777.40	919.81	0.00	0.00	0.00	
3,100.00	39.75	302.31	2,811.39	525.79	-831.44	983.75	0.00	0.00	0.00	
3,200.00	39.75	302.31	2,888.28	559.97	-885.48	1,047.69	0.00	0.00	0.00	
3,270.76	39.75	302.31	2,942.68	584.15	-923.72	1,092.93	0.00	0.00	0.00	
3,300.00	39.31	302.31	2,965.24	594.10	-939.45	1,111.54	1.50	-1.50	0.00	
3,400.00	37.81	302.31	3,043.43	627.41	-992.13	1,173.87	1.50	-1.50	0.00	
3,500.00	36.31	302.31	3,123.23	659.62	-1,043.06	1,234.13	1.50	-1.50	0.00	
3,600.00	34.81	302.31	3,204.58	690.70	-1,092.21	1,292.28	1.50	-1.50	0.00	
3,700.00	33.31	302.31	3,287.43	720.63	-1,139.54	1,348.28	1.50	-1.50	0.00	
3,800.00	31.81	302.31	3,371.71	749.39	-1,185.02	1,402.10	1.50	-1.50	0.00	
3,900.00	30.31	302.31	3,457.37	776.97	-1,228.63	1,453.69	1.50	-1.50	0.00	
4,000.00	28.81	302.31	3,544.35	803.33	-1,270.32	1,503.01	1.50	-1.50	0.00	
4,100.00	27.31	302.31	3,632.60	828.47	-1,310.07	1,550.05	1.50	-1.50	0.00	
4,200.00	25.81	302.31	3,722.04	852.37	-1,347.86	1,594.76	1.50	-1.50	0.00	
4,300.00	24.31	302.31	3,812.63	875.01	-1,383.66	1,637.11	1.50	-1.50	0.00	
4,400.00	22.81	302.31	3,904.29	896.37	-1,417.43	1,677.08	1.50	-1.50	0.00	
4,500.00	21.31	302.31	3,996.97	916.44	-1,449.17	1,714.63	1.50	-1.50	0.00	
4,600.00	19.81	302.31	4,090.60	935.21	-1,478.85	1,749.75	1.50	-1.50	0.00	
4,700.00	18.31	302.31	4,185.11	952.66	-1,506.45	1,782.40	1.50	-1.50	0.00	
4,800.00	16.81	302.31	4,280.45	968.78	-1,531.95	1,812.57	1.50	-1.50	0.00	
4,900.00	15.31	302.31	4,376.55	983.57	-1,555.32	1,840.23	1.50	-1.50	0.00	
5,000.00	13.81	302.31	4,473.33	997.00	-1,576.57	1,865.36	1.50	-1.50	0.00	

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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 32D-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	12.31	302.31	4,570.75	1,009.08	-1,595.66	1,887.96	1.50	-1.50	0.00
5,200.00	10.81	302.31	4,668.72	1,019.79	-1,612.60	1,907.99	1.50	-1.50	0.00
5,300.00	9.31	302.31	4,767.18	1,029.12	-1,627.36	1,925.46	1.50	-1.50	0.00
5,400.00	7.81	302.31	4,866.06	1,037.07	-1,639.94	1,940.34	1.50	-1.50	0.00
5,500.00	6.31	302.31	4,965.30	1,043.64	-1,650.32	1,952.62	1.50	-1.50	0.00
5,600.00	4.81	302.31	5,064.83	1,048.82	-1,658.51	1,962.31	1.50	-1.50	0.00
5,700.00	3.31	302.31	5,164.57	1,052.60	-1,664.49	1,969.39	1.50	-1.50	0.00
5,800.00	1.81	302.31	5,264.47	1,054.99	-1,668.26	1,973.85	1.50	-1.50	0.00
5,900.00	0.31	302.31	5,364.45	1,055.97	-1,669.82	1,975.70	1.50	-1.50	0.00
5,920.55	0.00	0.00	5,385.00	1,056.00	-1,669.87	1,975.75	1.50	-1.50	0.00
6,000.00	0.00	0.00	5,464.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,100.00	0.00	0.00	5,564.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,200.00	0.00	0.00	5,664.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,300.00	0.00	0.00	5,764.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,400.00	0.00	0.00	5,864.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,500.00	0.00	0.00	5,964.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,600.00	0.00	0.00	6,064.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,700.00	0.00	0.00	6,164.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,800.00	0.00	0.00	6,264.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
6,900.00	0.00	0.00	6,364.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,000.00	0.00	0.00	6,464.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,100.00	0.00	0.00	6,564.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,200.00	0.00	0.00	6,664.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,300.00	0.00	0.00	6,764.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,400.00	0.00	0.00	6,864.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,500.00	0.00	0.00	6,964.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,600.00	0.00	0.00	7,064.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,700.00	0.00	0.00	7,164.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,800.00	0.00	0.00	7,264.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,900.00	0.00	0.00	7,364.45	1,056.00	-1,669.87	1,975.75	0.00	0.00	0.00
7,920.55	0.00	0.00	7,385.00	1,056.00	-1,669.87	1,975.75	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 (°)
3,914.61	3,470.00	Mesaverde		0.00	
4,882.83	4,360.00	Price Coal		0.00	
4,965.63	4,440.00	Top Gas		0.00	
7,620.55	7,085.00	Rollins		0.00	
7,920.55	7,385.00	TD		0.00	

Bill Barrett Corp
Planning Report

Database: Compass
Company: BILL BARRETT CORP
Project: GARFIELD COUNTY, COLORADO NAD
1983
Site: MDP #22
Well: GGU Federal 32D-19-691
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well GGU Federal 32D-19-691
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

WELL DETAILS: GGU Federal 32D-19-691

+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.00	0.00	1618632.440	2410747.973	39° 30' 47.977 N	07° 35' 19.5360 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	2389.88	39.75	302.31	2265.39	283.11	-447.69	2.50	302.31	529.70	
4	3270.76	39.75	302.31	2942.68	584.15	-923.72	0.00	0.00	1092.93	
5	5920.55	0.00	0.00	5385.00	1056.00	-1669.87	1.50	180.00	1975.75	
6	7920.55	0.00	0.00	7385.00	1056.00	-1669.87	0.00	0.00	1975.75	GGU Federal 32D-19-691 (TD)

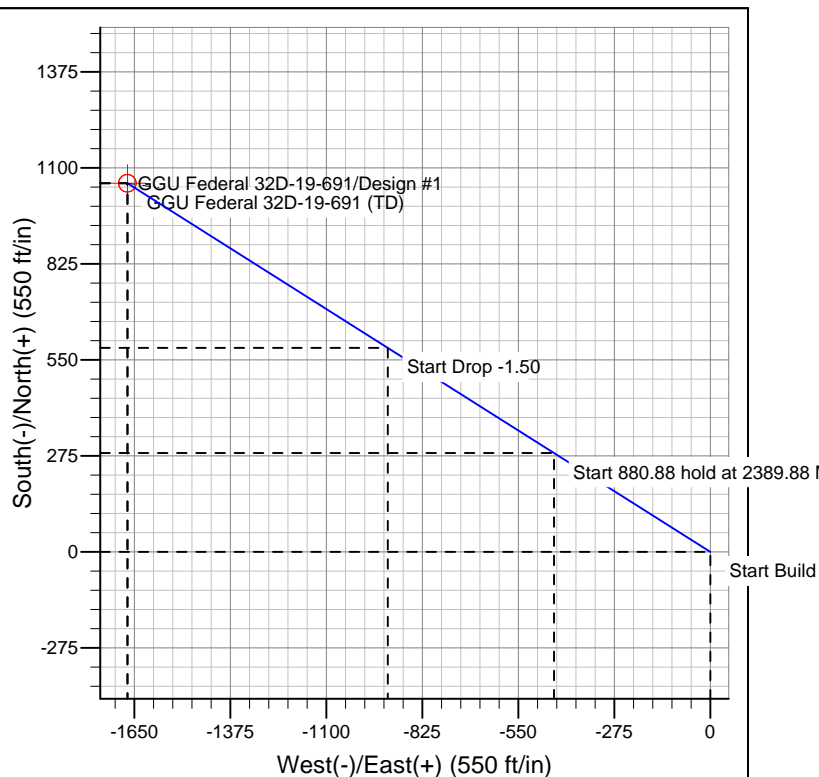
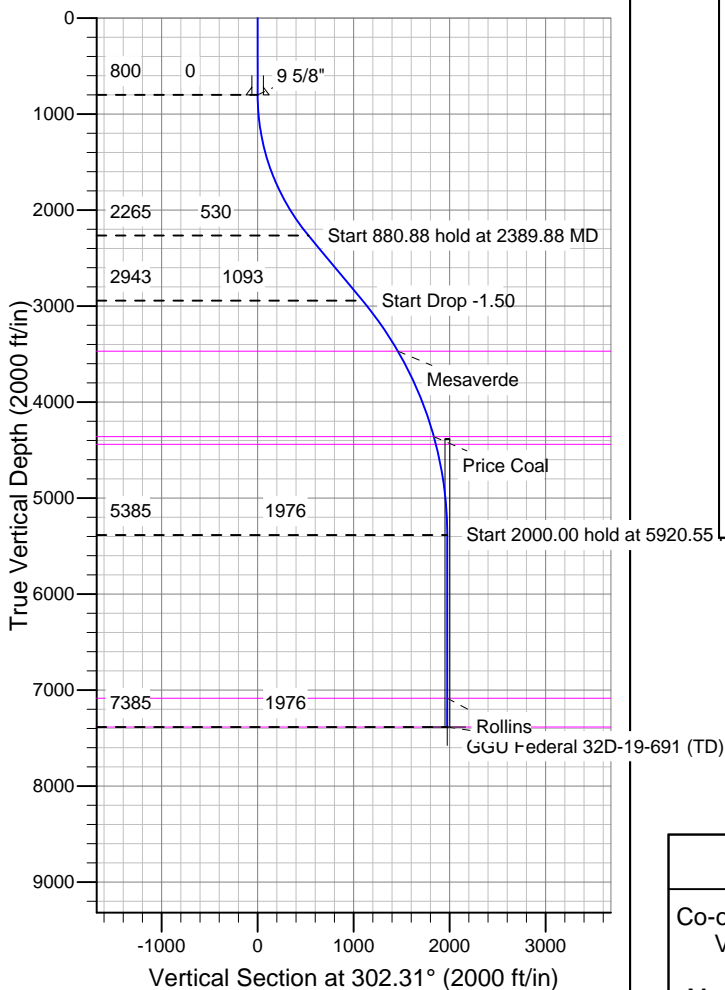
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Federal 32D-19-691 (TD)	7385.00	1056.00	-1669.87	Circle (Radius: 25.00)



Azimuths to True North
Magnetic North: 10.34°

Magnetic Field
Strength: 52535.8snT
Dip Angle: 65.88°
Date: 12/31/2009
Model: IGRF200510



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3470.00	3914.61	Mesaverde
4360.00	4882.83	Price Coal
4440.00	4965.63	Top Gas
7085.00	7620.55	Rollins
7385.00	7920.55	TD

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GGU Federal 32D-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