

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #22

GGU Federal 43C-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 43C-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 43C-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 43C-19-691		
Well Position	+N/-S	861.41 ft	Northing:
	+E/-W	903.98 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 47.495 N
			Longitude:
			107° 35' 20.3568 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	206.74

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	
1,123.50	8.09	206.74	1,122.43	-20.36	-10.26	2.50	2.50	0.00	206.74	
4,845.71	8.09	206.74	4,807.62	-488.02	-245.86	0.00	0.00	0.00	0.00	
5,384.88	0.00	0.00	5,345.00	-521.95	-262.95	1.50	-1.50	0.00	180.00	
7,384.88	0.00	0.00	7,345.00	-521.95	-262.95	0.00	0.00	0.00	0.00	GGU Federal 43C-'

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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 43C-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	206.74	899.97	-1.95	-0.98	2.18	2.50	2.50	0.00	
1,000.00	5.00	206.74	999.75	-7.79	-3.92	8.72	2.50	2.50	0.00	
1,100.00	7.50	206.74	1,099.14	-17.51	-8.82	19.61	2.50	2.50	0.00	
1,123.50	8.09	206.74	1,122.43	-20.36	-10.26	22.79	2.50	2.50	0.00	
1,200.00	8.09	206.74	1,198.17	-29.97	-15.10	33.56	0.00	0.00	0.00	
1,300.00	8.09	206.74	1,297.17	-42.53	-21.43	47.62	0.00	0.00	0.00	
1,400.00	8.09	206.74	1,396.18	-55.10	-27.76	61.69	0.00	0.00	0.00	
1,500.00	8.09	206.74	1,495.18	-67.66	-34.09	75.76	0.00	0.00	0.00	
1,600.00	8.09	206.74	1,594.19	-80.22	-40.42	89.83	0.00	0.00	0.00	
1,700.00	8.09	206.74	1,693.19	-92.79	-46.75	103.90	0.00	0.00	0.00	
1,800.00	8.09	206.74	1,792.20	-105.35	-53.08	117.97	0.00	0.00	0.00	
1,900.00	8.09	206.74	1,891.20	-117.92	-59.41	132.04	0.00	0.00	0.00	
2,000.00	8.09	206.74	1,990.21	-130.48	-65.74	146.10	0.00	0.00	0.00	
2,100.00	8.09	206.74	2,089.21	-143.05	-72.06	160.17	0.00	0.00	0.00	
2,200.00	8.09	206.74	2,188.22	-155.61	-78.39	174.24	0.00	0.00	0.00	
2,300.00	8.09	206.74	2,287.23	-168.17	-84.72	188.31	0.00	0.00	0.00	
2,400.00	8.09	206.74	2,386.23	-180.74	-91.05	202.38	0.00	0.00	0.00	
2,500.00	8.09	206.74	2,485.24	-193.30	-97.38	216.45	0.00	0.00	0.00	
2,600.00	8.09	206.74	2,584.24	-205.87	-103.71	230.52	0.00	0.00	0.00	
2,700.00	8.09	206.74	2,683.25	-218.43	-110.04	244.58	0.00	0.00	0.00	
2,800.00	8.09	206.74	2,782.25	-230.99	-116.37	258.65	0.00	0.00	0.00	
2,900.00	8.09	206.74	2,881.26	-243.56	-122.70	272.72	0.00	0.00	0.00	
3,000.00	8.09	206.74	2,980.26	-256.12	-129.03	286.79	0.00	0.00	0.00	
3,100.00	8.09	206.74	3,079.27	-268.69	-135.36	300.86	0.00	0.00	0.00	
3,200.00	8.09	206.74	3,178.27	-281.25	-141.69	314.93	0.00	0.00	0.00	
3,300.00	8.09	206.74	3,277.28	-293.82	-148.02	329.00	0.00	0.00	0.00	
3,400.00	8.09	206.74	3,376.29	-306.38	-154.35	343.06	0.00	0.00	0.00	
3,500.00	8.09	206.74	3,475.29	-318.94	-160.68	357.13	0.00	0.00	0.00	
3,600.00	8.09	206.74	3,574.30	-331.51	-167.01	371.20	0.00	0.00	0.00	
3,700.00	8.09	206.74	3,673.30	-344.07	-173.34	385.27	0.00	0.00	0.00	
3,800.00	8.09	206.74	3,772.31	-356.64	-179.67	399.34	0.00	0.00	0.00	
3,900.00	8.09	206.74	3,871.31	-369.20	-186.00	413.41	0.00	0.00	0.00	
4,000.00	8.09	206.74	3,970.32	-381.76	-192.33	427.47	0.00	0.00	0.00	
4,100.00	8.09	206.74	4,069.32	-394.33	-198.66	441.54	0.00	0.00	0.00	
4,200.00	8.09	206.74	4,168.33	-406.89	-204.99	455.61	0.00	0.00	0.00	
4,300.00	8.09	206.74	4,267.33	-419.46	-211.32	469.68	0.00	0.00	0.00	
4,400.00	8.09	206.74	4,366.34	-432.02	-217.65	483.75	0.00	0.00	0.00	
4,500.00	8.09	206.74	4,465.35	-444.59	-223.98	497.82	0.00	0.00	0.00	
4,600.00	8.09	206.74	4,564.35	-457.15	-230.31	511.89	0.00	0.00	0.00	
4,700.00	8.09	206.74	4,663.36	-469.71	-236.64	525.95	0.00	0.00	0.00	
4,800.00	8.09	206.74	4,762.36	-482.28	-242.97	540.02	0.00	0.00	0.00	
4,845.71	8.09	206.74	4,807.62	-488.02	-245.86	546.45	0.00	0.00	0.00	
4,900.00	7.27	206.74	4,861.42	-494.50	-249.12	553.71	1.50	-1.50	0.00	
5,000.00	5.77	206.74	4,960.77	-504.65	-254.24	565.07	1.50	-1.50	0.00	

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Well:	GGU Federal 43C-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	4.27	206.74	5,060.38	-512.47	-258.17	573.83	1.50	-1.50	0.00
5,200.00	2.77	206.74	5,160.19	-517.95	-260.94	579.97	1.50	-1.50	0.00
5,300.00	1.27	206.74	5,260.13	-521.11	-262.53	583.50	1.50	-1.50	0.00
5,384.88	0.00	0.00	5,345.00	-521.95	-262.95	584.44	1.50	-1.50	0.00
5,400.00	0.00	0.00	5,360.12	-521.95	-262.95	584.44	0.00	0.00	0.00
5,500.00	0.00	0.00	5,460.12	-521.95	-262.95	584.44	0.00	0.00	0.00
5,600.00	0.00	0.00	5,560.12	-521.95	-262.95	584.44	0.00	0.00	0.00
5,700.00	0.00	0.00	5,660.12	-521.95	-262.95	584.44	0.00	0.00	0.00
5,800.00	0.00	0.00	5,760.12	-521.95	-262.95	584.44	0.00	0.00	0.00
5,900.00	0.00	0.00	5,860.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,000.00	0.00	0.00	5,960.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,100.00	0.00	0.00	6,060.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,200.00	0.00	0.00	6,160.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,300.00	0.00	0.00	6,260.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,400.00	0.00	0.00	6,360.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,500.00	0.00	0.00	6,460.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,600.00	0.00	0.00	6,560.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,700.00	0.00	0.00	6,660.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,800.00	0.00	0.00	6,760.12	-521.95	-262.95	584.44	0.00	0.00	0.00
6,900.00	0.00	0.00	6,860.12	-521.95	-262.95	584.44	0.00	0.00	0.00
7,000.00	0.00	0.00	6,960.12	-521.95	-262.95	584.44	0.00	0.00	0.00
7,100.00	0.00	0.00	7,060.12	-521.95	-262.95	584.44	0.00	0.00	0.00
7,200.00	0.00	0.00	7,160.12	-521.95	-262.95	584.44	0.00	0.00	0.00
7,300.00	0.00	0.00	7,260.12	-521.95	-262.95	584.44	0.00	0.00	0.00
7,384.88	0.00	0.00	7,345.00	-521.95	-262.95	584.44	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 (°)
3,423.95	3,400.00	Mesaverde		0.00	
4,353.19	4,320.00	Price Coal		0.00	
4,423.90	4,390.00	Top Gas		0.00	
7,084.88	7,045.00	Rollins		0.00	
7,384.88	7,345.00	TD		0.00	

WELL DETAILS: GGU Federal 43C-19-691

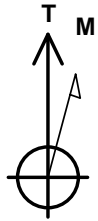
			Ground Level:	0.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1618585.123	2410682.542	39° 30' 47.495 N	107° 35' 20.3568 W	

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	1123.50	8.09	206.74	1122.43	-20.36	-10.26	2.50	206.74	22.79	
4	4845.71	8.09	206.74	4807.62	-488.02	-245.86	0.00	0.00	546.45	
5	5384.88	0.00	0.00	5345.00	-521.95	-262.95	1.50	180.00	584.44	
6	7384.88	0.00	0.00	7345.00	-521.95	-262.95	0.00	0.00	584.44	GGU Federal 43C-19-691 (TD)

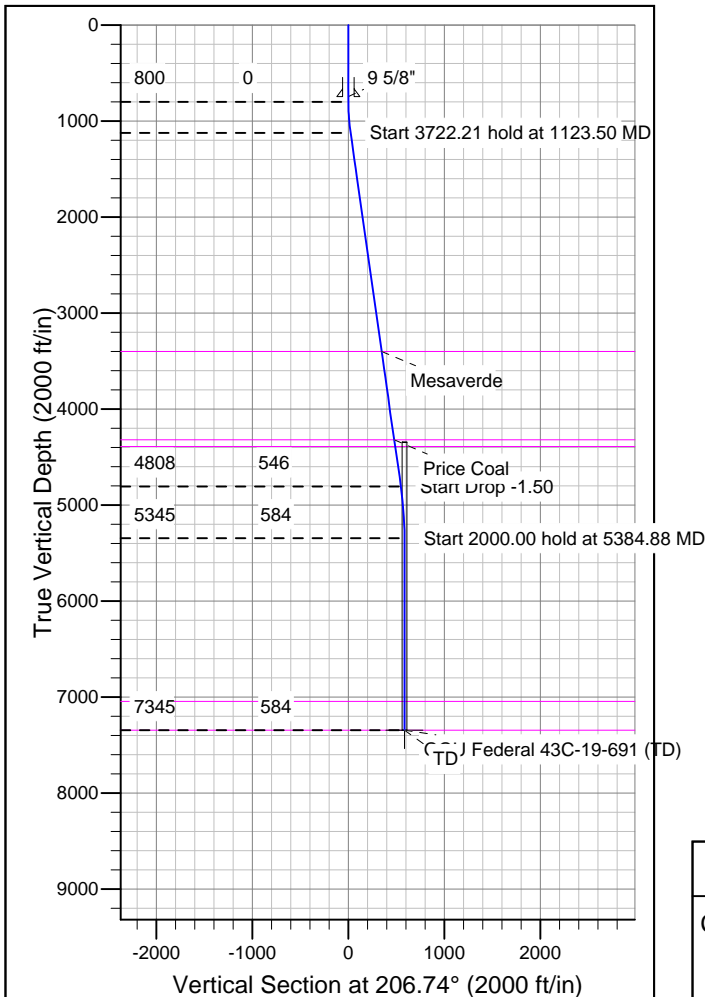
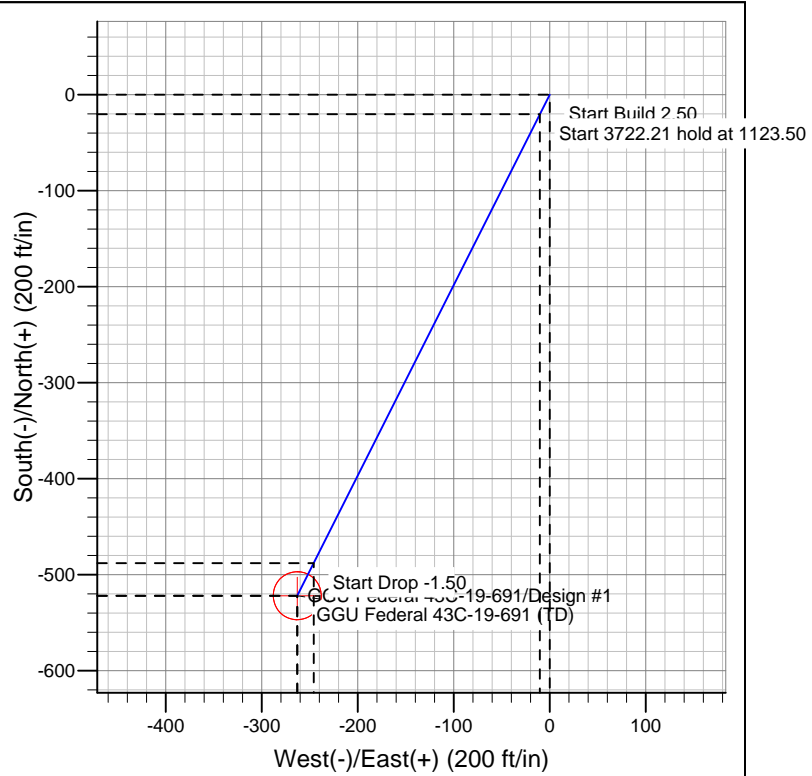
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
GGU Federal 43C-19-691 (TD)	7345.00	-521.95	-262.95	Circle (Radius: 25.00)



Azimuths to True North
Magnetic North: 10.34°

Magnetic Field
Strength: 52535.7snT
Dip Angle: 65.88°
Date: 12/31/2009
Model: IGRF200510



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3400.00	3423.95	Mesaverde
4320.00	4353.19	Price Coal
4390.00	4423.90	Top Gas
7045.00	7084.88	Rollins
7345.00	7384.88	TD

REFERENCE INFORMATION

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