

BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983

MDP #21

GGU Federal 13D-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 13D-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 13D-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 13D-19-691		
Well Position	+N/-S	177.73 ft	Northing:
	+E/-W	-752.48 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			39° 30' 38.549 N
			Longitude:
			107° 36' 3.9816 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	309.21

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	
1,495.73	17.39	309.21	1,485.09	66.25	-81.20	2.50	2.50	0.00	309.21	
3,907.07	17.39	309.21	3,786.18	521.93	-639.70	0.00	0.00	0.00	0.00	
5,066.62	0.00	0.00	4,928.00	632.34	-775.03	1.50	-1.50	0.00	180.00	
7,566.62	0.00	0.00	7,428.00	632.34	-775.03	0.00	0.00	0.00	0.00	GGU Federal 13D-

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Project:	GARFIELD COUNTY, COLORADO NAD 1983	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	MDP #21	North Reference:	True
Well:	GGU Federal 13D-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	309.21	899.97	1.38	-1.69	2.18	2.50	2.50	0.00	
1,000.00	5.00	309.21	999.75	5.51	-6.76	8.72	2.50	2.50	0.00	
1,100.00	7.50	309.21	1,099.14	12.40	-15.19	19.61	2.50	2.50	0.00	
1,200.00	10.00	309.21	1,197.97	22.01	-26.98	34.82	2.50	2.50	0.00	
1,300.00	12.50	309.21	1,296.04	34.34	-42.09	54.33	2.50	2.50	0.00	
1,400.00	15.00	309.21	1,393.17	49.37	-60.51	78.09	2.50	2.50	0.00	
1,495.73	17.39	309.21	1,485.09	66.25	-81.20	104.79	2.50	2.50	0.00	
1,500.00	17.39	309.21	1,489.17	67.05	-82.18	106.07	0.00	0.00	0.00	
1,600.00	17.39	309.21	1,584.60	85.95	-105.35	135.96	0.00	0.00	0.00	
1,700.00	17.39	309.21	1,680.02	104.85	-128.51	165.85	0.00	0.00	0.00	
1,800.00	17.39	309.21	1,775.45	123.75	-151.67	195.75	0.00	0.00	0.00	
1,900.00	17.39	309.21	1,870.88	142.64	-174.83	225.64	0.00	0.00	0.00	
2,000.00	17.39	309.21	1,966.31	161.54	-197.99	255.53	0.00	0.00	0.00	
2,100.00	17.39	309.21	2,061.73	180.44	-221.15	285.43	0.00	0.00	0.00	
2,200.00	17.39	309.21	2,157.16	199.34	-244.32	315.32	0.00	0.00	0.00	
2,300.00	17.39	309.21	2,252.59	218.24	-267.48	345.21	0.00	0.00	0.00	
2,400.00	17.39	309.21	2,348.02	237.13	-290.64	375.10	0.00	0.00	0.00	
2,500.00	17.39	309.21	2,443.44	256.03	-313.80	405.00	0.00	0.00	0.00	
2,600.00	17.39	309.21	2,538.87	274.93	-336.96	434.89	0.00	0.00	0.00	
2,700.00	17.39	309.21	2,634.30	293.83	-360.12	464.78	0.00	0.00	0.00	
2,800.00	17.39	309.21	2,729.73	312.72	-383.28	494.67	0.00	0.00	0.00	
2,900.00	17.39	309.21	2,825.15	331.62	-406.45	524.57	0.00	0.00	0.00	
3,000.00	17.39	309.21	2,920.58	350.52	-429.61	554.46	0.00	0.00	0.00	
3,100.00	17.39	309.21	3,016.01	369.42	-452.77	584.35	0.00	0.00	0.00	
3,200.00	17.39	309.21	3,111.44	388.31	-475.93	614.25	0.00	0.00	0.00	
3,300.00	17.39	309.21	3,206.86	407.21	-499.09	644.14	0.00	0.00	0.00	
3,400.00	17.39	309.21	3,302.29	426.11	-522.25	674.03	0.00	0.00	0.00	
3,500.00	17.39	309.21	3,397.72	445.01	-545.42	703.92	0.00	0.00	0.00	
3,600.00	17.39	309.21	3,493.15	463.90	-568.58	733.82	0.00	0.00	0.00	
3,700.00	17.39	309.21	3,588.58	482.80	-591.74	763.71	0.00	0.00	0.00	
3,800.00	17.39	309.21	3,684.00	501.70	-614.90	793.60	0.00	0.00	0.00	
3,900.00	17.39	309.21	3,779.43	520.60	-638.06	823.49	0.00	0.00	0.00	
3,907.07	17.39	309.21	3,786.18	521.93	-639.70	825.61	0.00	0.00	0.00	
4,000.00	16.00	309.21	3,875.19	538.81	-660.39	852.31	1.50	-1.50	0.00	
4,100.00	14.50	309.21	3,971.66	555.44	-680.76	878.61	1.50	-1.50	0.00	
4,200.00	13.00	309.21	4,068.80	570.46	-699.18	902.37	1.50	-1.50	0.00	
4,300.00	11.50	309.21	4,166.52	583.87	-715.62	923.59	1.50	-1.50	0.00	
4,400.00	10.00	309.21	4,264.76	595.66	-730.07	942.24	1.50	-1.50	0.00	
4,500.00	8.50	309.21	4,363.46	605.83	-742.52	958.31	1.50	-1.50	0.00	
4,600.00	7.00	309.21	4,462.54	614.35	-752.97	971.80	1.50	-1.50	0.00	
4,700.00	5.50	309.21	4,561.94	621.23	-761.40	982.68	1.50	-1.50	0.00	
4,800.00	4.00	309.21	4,661.60	626.46	-767.82	990.96	1.50	-1.50	0.00	
4,900.00	2.50	309.21	4,761.43	630.05	-772.21	996.63	1.50	-1.50	0.00	
5,000.00	1.00	309.21	4,861.38	631.98	-774.57	999.68	1.50	-1.50	0.00	

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Site:	MDP #21	North Reference:	True
Well:	GGU Federal 13D-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)
5,066.62	0.00	0.00	4,928.00	632.34	-775.03	1,000.26	1.50	-1.50	0.00
5,100.00	0.00	0.00	4,961.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,200.00	0.00	0.00	5,061.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,300.00	0.00	0.00	5,161.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,400.00	0.00	0.00	5,261.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,500.00	0.00	0.00	5,361.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,600.00	0.00	0.00	5,461.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,700.00	0.00	0.00	5,561.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,800.00	0.00	0.00	5,661.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
5,900.00	0.00	0.00	5,761.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,000.00	0.00	0.00	5,861.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,100.00	0.00	0.00	5,961.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,200.00	0.00	0.00	6,061.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,300.00	0.00	0.00	6,161.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,400.00	0.00	0.00	6,261.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,500.00	0.00	0.00	6,361.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,600.00	0.00	0.00	6,461.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,700.00	0.00	0.00	6,561.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,800.00	0.00	0.00	6,661.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
6,900.00	0.00	0.00	6,761.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,000.00	0.00	0.00	6,861.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,100.00	0.00	0.00	6,961.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,200.00	0.00	0.00	7,061.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,300.00	0.00	0.00	7,161.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,400.00	0.00	0.00	7,261.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,500.00	0.00	0.00	7,361.38	632.34	-775.03	1,000.26	0.00	0.00	0.00
7,566.62	0.00	0.00	7,428.00	632.34	-775.03	1,000.26	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

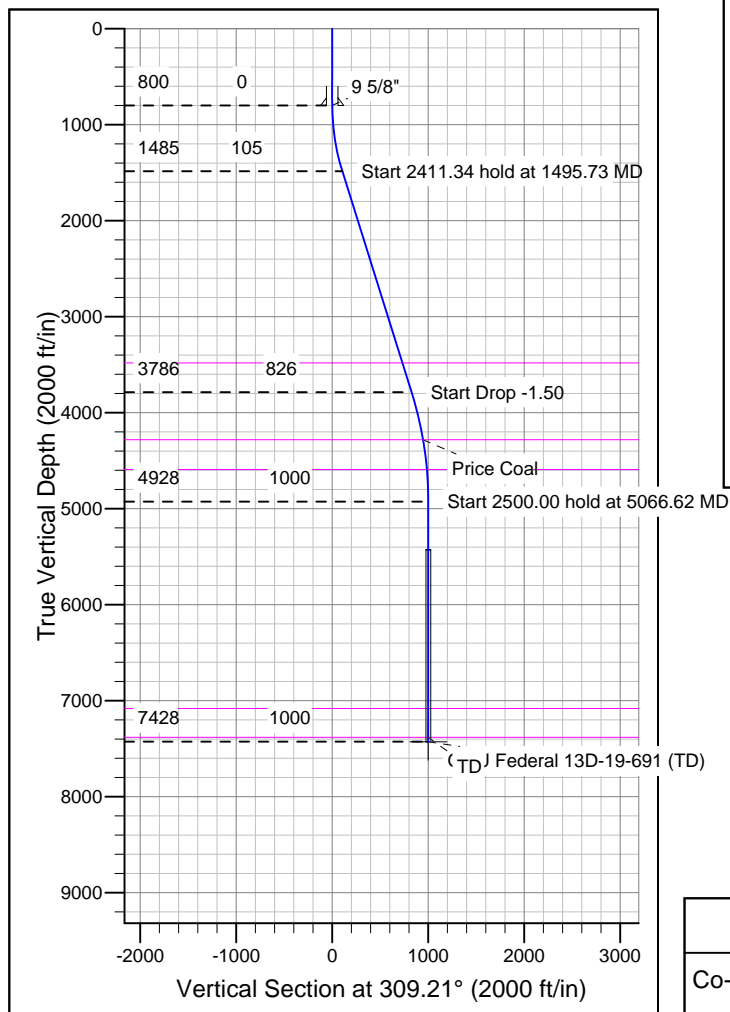
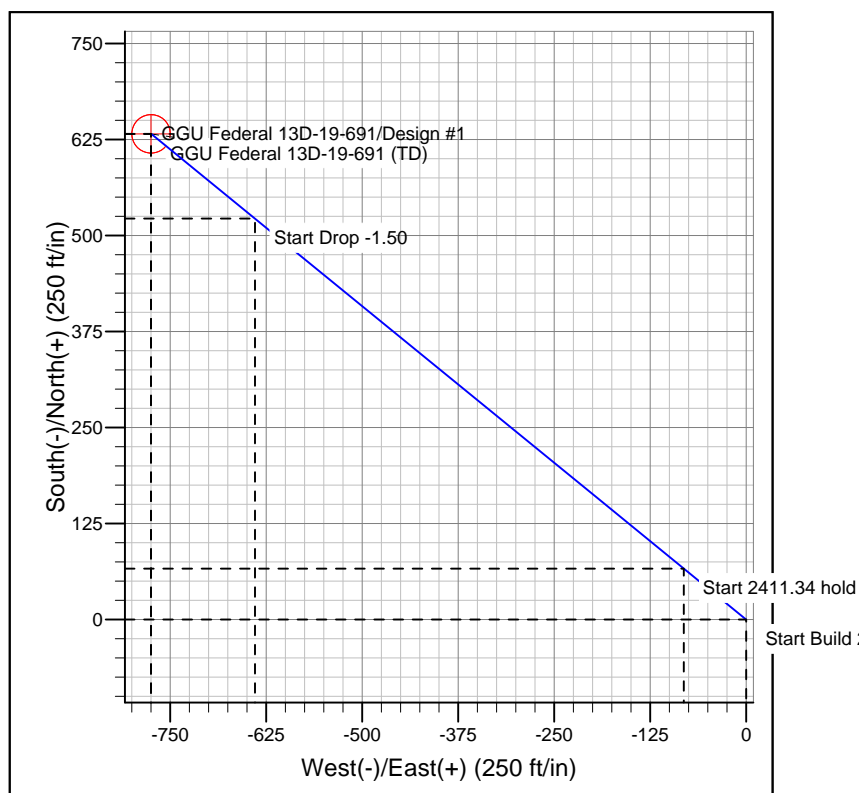
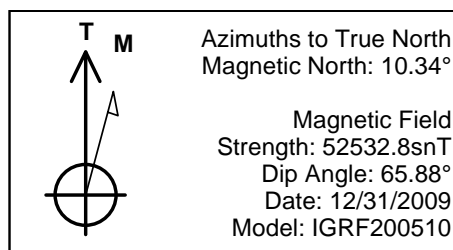
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,588.32	3,482.00	Mesaverde		0.00	
4,417.50	4,282.00	Price Coal		0.00	
4,730.19	4,592.00	Top Gas		0.00	
7,220.62	7,082.00	Rollins		0.00	
7,520.62	7,382.00	TD		0.00	

WELL DETAILS: GGU Federal 13D-19-691

Ground Level: 0.00							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1617759.063	2407243.649	39° 30' 38.549 N	107° 36' 3.9816 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	1495.73	17.39	309.21	1485.09	66.25	-81.20	2.50	309.21	104.79	
4	3907.07	17.39	309.21	3786.18	521.93	-639.70	0.00	0.00	825.61	
5	5066.62	0.00	0.00	4928.00	632.34	-775.03	1.50	180.00	1000.26	
6	7566.62	0.00	0.00	7428.00	632.34	-775.03	0.00	0.00	1000.26	GGU Federal 13D-19-691 (TD)



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3482.00	3588.32	Mesaverde
4282.00	4417.50	Price Coal
4592.00	4730.19	Top Gas
7082.00	7220.62	Rollins
7382.00	7520.62	TD

REFERENCE INFORMATION

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