



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado

MDP 9 Pad

GGU Federal 33C-28-691

Wellbore #1

Survey: Surveys

Standard Survey Report

19 July, 2010

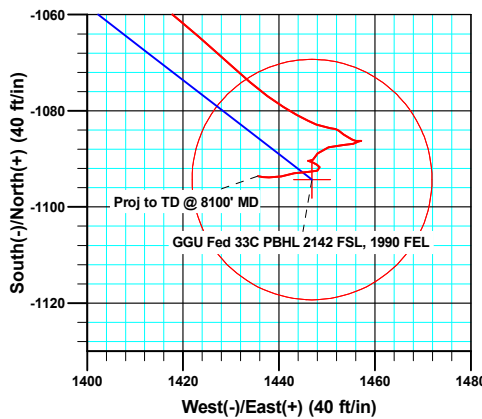
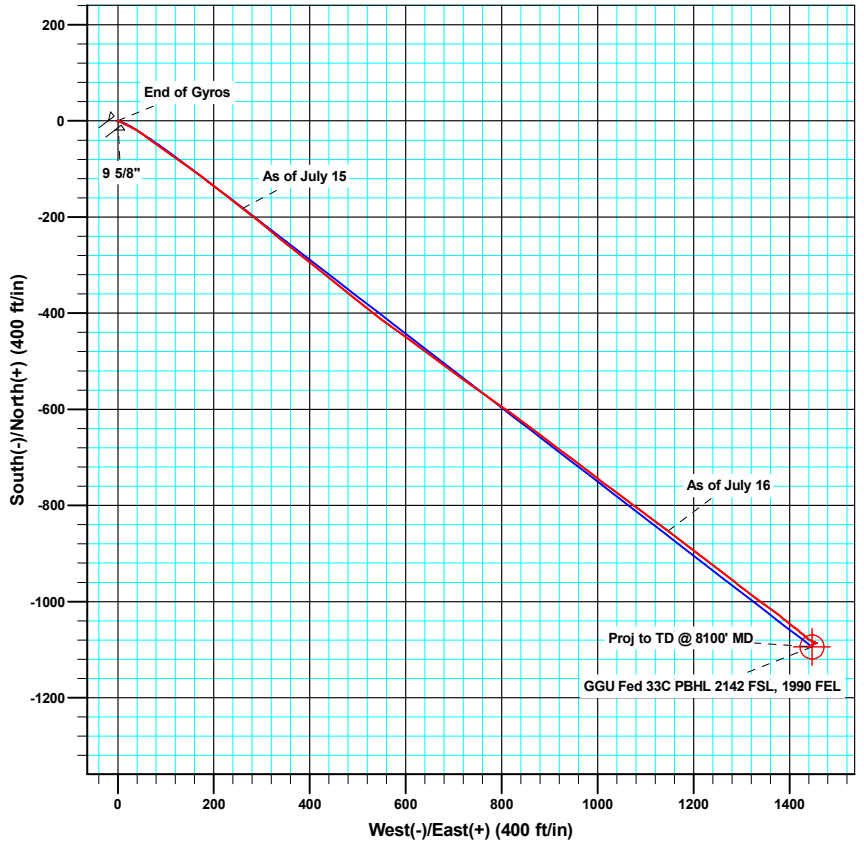
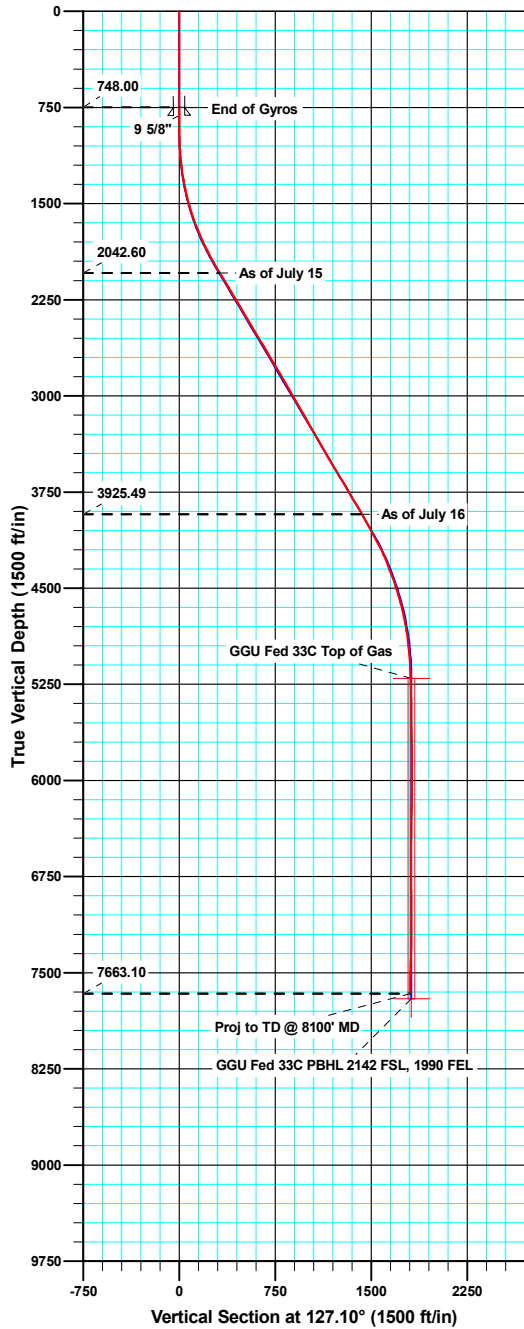


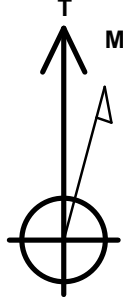


WELL DETAILS: GGU Federal 33C-28-691

Ground Level: 6332.00

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1613900.79 2418243.42 39.500810 -107.561819




 Azimuths to True North
 Magnetic North: 10.26°
 Magnetic Field
 Strength: 52438.6snT
 Dip Angle: 65.86°
 Date: 06/07/2010
 Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V/Sect	Departure	Annotation
2042.60	2103.00	31.40	127.80	-182.19	259.80	317.11	318.76	As of July 15
3925.49	4290.00	29.10	127.00	-853.07	1146.61	1429.09	1431.01	As of July 16
7663.10	8100.00	1.30	278.70	-1093.59	1435.58	1804.66	1850.91	Proj to TD @ 8100' MD



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 33C-28-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6354.00ft
Site:	MDP 9 Pad	MD Reference:	KB @ 6354.00ft
Well:	GGU Federal 33C-28-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Project	Garfield County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	MDP 9 Pad				
Site Position:		Northing:	1,613,962.06 usft	Latitude:	39.500977
From:	Lat/Long	Easting:	2,418,224.77 usft	Longitude:	-107.561890
Position Uncertainty:	0.00 ft	Slot Radius:	0.00 ft	Grid Convergence:	-1.30 °

Well	GGU Federal 33C-28-691					
Well Position	+N/-S	0.00 ft	Northing:	1,613,900.79 usft	Latitude:	39.500810
	+E/-W	0.00 ft	Easting:	2,418,243.42 usft	Longitude:	-107.561819
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,332.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	06/07/10	10.26	65.86	52,439

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	127.10	

Survey Program	Date	07/19/10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	748.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
873.00	8,100.00	Surveys (Wellbore #1)	MWD	MWD - Standard	

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)	
748.00	0.13	89.75	748.00	0.11	-0.29	-0.30	0.00	0.00	0.00	
813.50	0.15	52.86	813.50	0.16	-0.15	-0.21	0.14	0.03	-56.32	
9 5/8"										
873.00	0.20	32.10	873.00	0.30	-0.03	-0.20	0.14	0.09	-34.89	
961.00	1.30	101.20	960.99	0.23	1.03	0.68	1.41	1.25	78.52	
1,056.00	3.20	120.90	1,055.91	-1.34	4.36	4.29	2.13	2.00	20.74	
1,152.00	5.40	116.10	1,151.64	-4.70	10.72	11.39	2.32	2.29	-5.00	
1,247.00	8.10	116.20	1,245.97	-9.63	20.74	22.35	2.84	2.84	0.11	
1,342.00	10.70	118.50	1,339.69	-16.79	34.50	37.64	2.76	2.74	2.42	
1,437.00	13.10	125.40	1,432.64	-27.24	51.03	57.13	2.93	2.53	7.26	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 33C-28-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6354.00ft
Site:	MDP 9 Pad	MD Reference:	KB @ 6354.00ft
Well:	GGU Federal 33C-28-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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)	
1,532.00	16.20	126.50	1,524.54	-41.36	70.46	81.15	3.28	3.26	1.16	
1,627.00	19.30	125.70	1,615.01	-58.41	93.87	110.10	3.27	3.26	-0.84	
1,723.00	22.20	124.80	1,704.77	-78.02	121.65	144.09	3.04	3.02	-0.94	
1,818.00	24.90	125.40	1,791.85	-99.85	152.70	182.02	2.85	2.84	0.63	
1,913.00	27.10	127.70	1,877.23	-124.67	186.13	223.65	2.55	2.32	2.42	
2,008.00	29.70	128.20	1,960.79	-152.46	221.75	268.83	2.75	2.74	0.53	
2,103.00	31.40	127.80	2,042.60	-182.19	259.80	317.11	1.80	1.79	-0.42	
2,198.00	31.40	128.80	2,123.69	-212.86	298.64	366.59	0.55	0.00	1.05	
2,293.00	31.40	129.50	2,204.78	-244.11	337.02	416.06	0.38	0.00	0.74	
2,388.00	30.80	128.20	2,286.13	-274.90	375.23	465.10	0.95	-0.63	-1.37	
2,483.00	30.50	128.20	2,367.85	-304.85	413.29	513.52	0.32	-0.32	0.00	
2,578.00	30.70	128.80	2,449.62	-334.95	451.14	561.87	0.38	0.21	0.63	
2,674.00	30.70	129.30	2,532.17	-365.83	489.20	610.85	0.27	0.00	0.52	
2,769.00	30.60	127.80	2,613.90	-396.01	527.07	659.26	0.81	-0.11	-1.58	
2,864.00	31.00	125.40	2,695.50	-425.00	566.12	707.89	1.36	0.42	-2.53	
2,959.00	30.90	126.00	2,776.98	-453.51	605.80	756.74	0.34	-0.11	0.63	
3,054.00	30.40	126.50	2,858.71	-482.15	644.86	805.16	0.59	-0.53	0.53	
3,149.00	30.10	127.10	2,940.77	-510.81	683.18	853.02	0.45	-0.32	0.63	
3,244.00	30.40	125.80	3,022.83	-539.24	721.67	900.87	0.76	0.32	-1.37	
3,339.00	30.50	125.30	3,104.73	-567.24	760.84	949.00	0.29	0.11	-0.53	
3,434.00	28.80	124.80	3,187.29	-594.23	799.31	995.96	1.81	-1.79	-0.53	
3,530.00	29.80	126.00	3,271.01	-621.45	837.60	1,042.92	1.21	1.04	1.25	
3,625.00	30.50	126.80	3,353.16	-649.77	876.00	1,090.63	0.85	0.74	0.84	
3,720.00	29.10	127.20	3,435.59	-678.17	913.71	1,137.84	1.49	-1.47	0.42	
3,815.00	30.50	127.40	3,518.03	-706.79	951.26	1,185.05	1.48	1.47	0.21	
3,910.00	32.50	127.30	3,599.02	-736.90	990.72	1,234.69	2.11	2.11	-0.11	
4,005.00	31.00	126.30	3,679.81	-766.85	1,030.74	1,284.67	1.67	-1.58	-1.05	
4,100.00	30.00	126.10	3,761.66	-795.33	1,069.65	1,332.88	1.06	-1.05	-0.21	
4,195.00	31.30	127.20	3,843.39	-824.24	1,108.50	1,381.31	1.49	1.37	1.16	
4,290.00	29.10	127.00	3,925.49	-853.07	1,146.61	1,429.09	2.32	-2.32	-0.21	
4,385.00	29.50	127.10	4,008.33	-881.08	1,183.71	1,475.58	0.42	0.42	0.11	
4,480.00	28.70	127.20	4,091.34	-908.98	1,220.54	1,521.79	0.84	-0.84	0.11	
4,576.00	26.80	127.80	4,176.30	-936.18	1,256.00	1,566.48	2.00	-1.98	0.63	
4,671.00	23.60	128.10	4,262.24	-961.05	1,287.90	1,606.92	3.37	-3.37	0.32	
4,766.00	20.40	126.60	4,350.32	-982.66	1,316.16	1,642.50	3.42	-3.37	-1.58	
4,861.00	19.30	125.90	4,439.67	-1,001.74	1,342.17	1,674.75	1.18	-1.16	-0.74	
4,956.00	17.30	126.70	4,529.86	-1,019.39	1,366.22	1,704.58	2.12	-2.11	0.84	
5,051.00	15.40	129.20	4,621.02	-1,035.80	1,387.32	1,731.31	2.13	-2.00	2.63	
5,146.00	12.20	127.40	4,713.26	-1,049.88	1,405.08	1,753.96	3.40	-3.37	-1.89	
5,242.00	9.80	129.90	4,807.49	-1,061.28	1,419.40	1,772.27	2.55	-2.50	2.60	
5,337.00	7.00	133.00	4,901.46	-1,070.42	1,429.84	1,786.10	2.98	-2.95	3.26	
5,432.00	5.30	125.90	4,995.92	-1,076.94	1,437.63	1,796.25	1.96	-1.79	-7.47	
5,527.00	3.50	117.70	5,090.63	-1,080.86	1,443.75	1,803.50	2.00	-1.89	-8.63	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 33C-28-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6354.00ft
Site:	MDP 9 Pad	MD Reference:	KB @ 6354.00ft
Well:	GGU Federal 33C-28-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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)	
5,622.00	1.90	112.30	5,185.52	-1,082.80	1,447.78	1,807.88	1.70	-1.68	-5.68	
5,717.00	1.70	97.00	5,280.48	-1,083.57	1,450.63	1,810.62	0.55	-0.21	-16.11	
5,813.00	0.70	129.90	5,376.46	-1,084.12	1,452.50	1,812.44	1.22	-1.04	34.27	
5,908.00	0.80	128.30	5,471.45	-1,084.91	1,453.46	1,813.68	0.11	0.11	-1.68	
6,003.00	0.70	114.30	5,566.44	-1,085.56	1,454.51	1,814.91	0.22	-0.11	-14.74	
6,098.00	0.40	122.80	5,661.44	-1,085.97	1,455.32	1,815.81	0.33	-0.32	8.95	
6,193.00	0.50	100.20	5,756.43	-1,086.23	1,456.01	1,816.51	0.21	0.11	-23.79	
6,288.00	0.40	84.90	5,851.43	-1,086.27	1,456.74	1,817.12	0.16	-0.11	-16.11	
6,383.00	0.10	85.20	5,946.43	-1,086.23	1,457.16	1,817.43	0.32	-0.32	0.32	
6,479.00	0.20	273.50	6,042.43	-1,086.22	1,457.07	1,817.35	0.31	0.10	-178.85	
6,574.00	0.50	244.90	6,137.43	-1,086.38	1,456.53	1,817.02	0.36	0.32	-30.11	
6,669.00	0.90	250.60	6,232.42	-1,086.81	1,455.45	1,816.42	0.43	0.42	6.00	
6,764.00	1.70	268.30	6,327.40	-1,087.10	1,453.34	1,814.91	0.93	0.84	18.63	
6,859.00	2.00	254.90	6,422.35	-1,087.57	1,450.33	1,812.79	0.55	0.32	-14.11	
6,954.00	1.30	218.00	6,517.31	-1,088.85	1,448.07	1,811.76	1.30	-0.74	-38.84	
7,049.00	0.70	218.80	6,612.29	-1,090.15	1,447.04	1,811.73	0.63	-0.63	0.84	
7,144.00	0.70	290.30	6,707.29	-1,090.40	1,446.13	1,811.15	0.86	0.00	75.26	
7,240.00	0.60	107.50	6,803.29	-1,090.35	1,446.06	1,811.07	1.35	-0.10	184.58	
7,335.00	0.60	116.10	6,898.28	-1,090.72	1,446.98	1,812.02	0.09	0.00	9.05	
7,430.00	0.60	115.90	6,993.28	-1,091.16	1,447.88	1,813.00	0.00	0.00	-0.21	
7,525.00	0.40	158.10	7,088.27	-1,091.68	1,448.45	1,813.77	0.43	-0.21	44.42	
7,620.00	0.90	230.60	7,183.27	-1,092.46	1,448.00	1,813.88	0.91	0.53	76.32	
7,715.00	1.70	279.00	7,278.24	-1,092.72	1,446.03	1,812.46	1.36	0.84	50.95	
7,810.00	1.80	252.40	7,373.20	-1,092.95	1,443.21	1,810.36	0.85	0.11	-28.00	
7,905.00	1.60	260.40	7,468.16	-1,093.62	1,440.48	1,808.59	0.33	-0.21	8.42	
8,001.00	1.50	270.00	7,564.12	-1,093.84	1,437.91	1,806.66	0.29	-0.10	10.00	
8,055.00	1.30	278.70	7,618.11	-1,093.75	1,436.59	1,805.56	0.54	-0.37	16.11	
8,100.00	1.30	278.70	7,663.10	-1,093.59	1,435.58	1,804.66	0.00	0.00	0.00	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (ft)	Hole Diameter (ft)	
813.50	813.50	9 5/8"		0.80	1.02	

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,103.00	2,042.60	-182.19	259.80	As of July 15	
4,290.00	3,925.49	-853.07	1,146.61	As of July 16	
8,100.00	7,663.10	-1,093.59	1,435.58	Proj to TD @ 8100' MD	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Federal 33C-28-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6354.00ft
Site:	MDP 9 Pad	MD Reference:	KB @ 6354.00ft
Well:	GGU Federal 33C-28-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Checked By: _____ Approved By: _____ Date: _____