



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado

MDP 6 Pad

GGU Miller Fed 33A-32-691

Wellbore #1

Survey: Surveys

Standard Survey Report

20 December, 2010



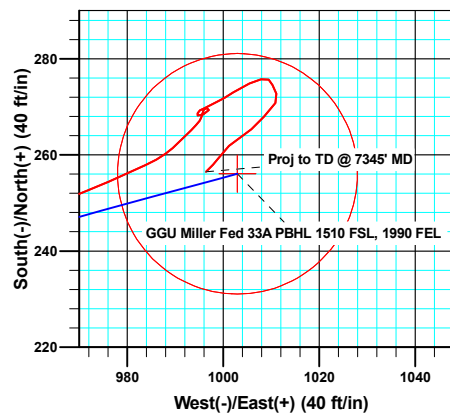
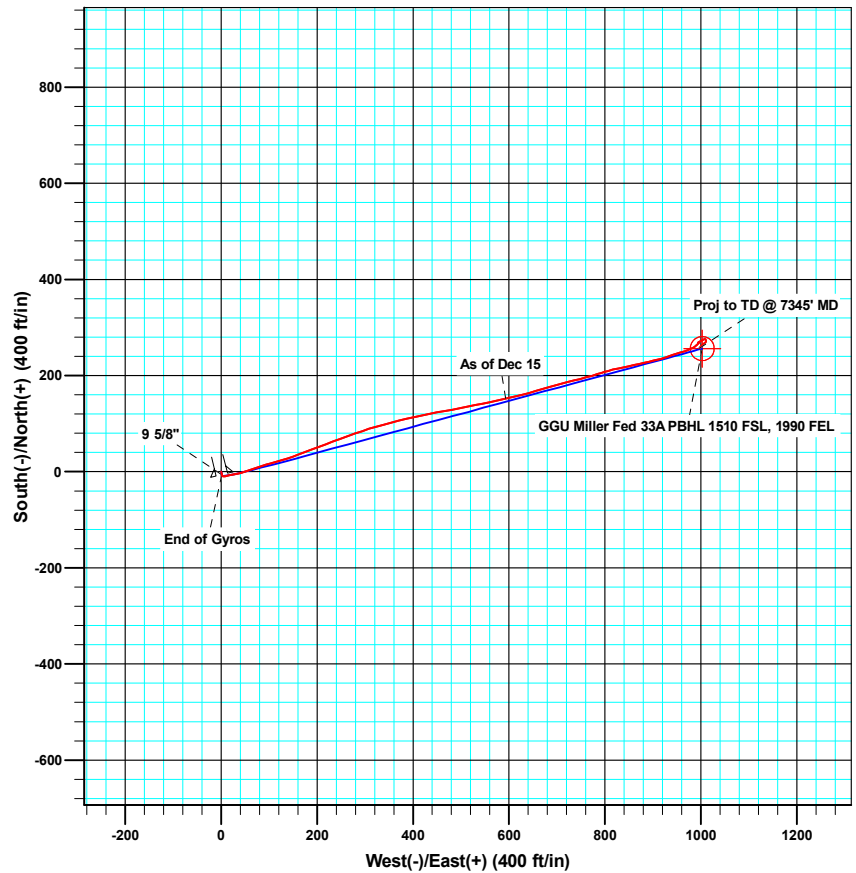
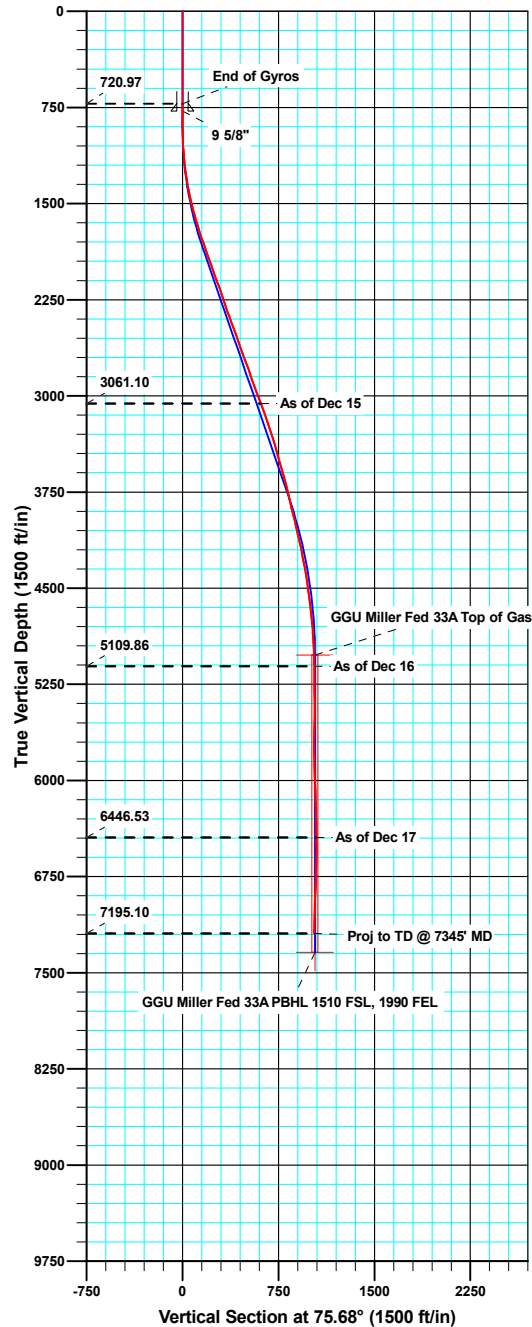


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WELL DETAILS: GGU Miller Fed 33A-32-691

Ground Level: 6120.00

North American Datum 1983		US State Plane 1983		Colorado Central Zone	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1606631.23	2413288.58	39° 28' 49.97 N	107° 34' 43.62 W



Azimuths to True North
Magnetic North: 10.22°

Magnetic Field
Strength: 52392.5nT
Dip Angle: 65.83°
Date: 10/14/2010
Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
3061.10	3159.00	20.30	77.30	152.04	593.54	612.70	617.94	As of Dec 15
5109.86	5259.00	1.10	13.50	267.78	995.41	1030.71	1038.42	As of Dec 16
6446.53	6596.00	1.20	165.80	274.56	1010.27	1046.79	1065.34	As of Dec 17
7195.10	7345.00	2.50	224.00	256.50	996.43	1028.91	1090.11	Proj to TD @ 7345' MD

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Miller Fed 33A-32-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6142.00ft
Site:	MDP 6 Pad	MD Reference:	KB @ 6142.00ft
Well:	GGU Miller Fed 33A-32-691	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 6 Pad			
Site Position:		Northing:	1,606,603.61 usft	Latitude:	39° 28' 49.69 N
From:	Lat/Long	Easting:	2,413,270.17 usft	Longitude:	107° 34' 43.85 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.31 °

Well	GGU Miller Fed 33A-32-691					
Well Position	+N/-S	0.00 ft	Northing:	1,606,631.23 usft	Latitude:	39° 28' 49.97 N
	+E/-W	0.00 ft	Easting:	2,413,288.59 usft	Longitude:	107° 34' 43.62 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,120.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/14/10	10.22	65.83	52,392

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	75.68	

Survey Program	Date	12/20/10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	721.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
881.00	7,345.00	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)	
721.00	0.71	170.17	720.97	-5.84	1.57	0.08	0.00	0.00	0.00	
779.20	0.85	166.29	779.16	-6.62	1.74	0.05	0.26	0.24	-6.67	
9 5/8"										
881.00	1.10	161.90	880.95	-8.28	2.22	0.10	0.26	0.25	-4.31	
973.00	2.00	107.70	972.92	-9.61	4.02	1.52	1.76	0.98	-58.91	
1,066.00	3.70	78.10	1,065.80	-9.48	8.51	5.90	2.36	1.83	-31.83	
1,158.00	5.40	79.40	1,157.51	-8.07	15.67	13.18	1.85	1.85	1.41	
1,250.00	7.90	79.50	1,248.89	-6.12	26.14	23.81	2.72	2.72	0.11	
1,345.00	10.00	74.80	1,342.72	-2.77	40.52	38.58	2.34	2.21	-4.95	
1,441.00	12.00	71.10	1,436.96	2.65	58.01	56.86	2.21	2.08	-3.85	

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Well:	GGU Miller Fed 33A-32-691	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)
1,536.00	14.20	71.30	1,529.48	9.58	78.39	78.33	2.32	2.32	0.21
1,632.00	16.30	74.20	1,622.10	17.03	102.51	103.54	2.33	2.19	3.02
1,727.00	17.90	74.00	1,712.89	24.68	129.37	131.46	1.69	1.68	-0.21
1,823.00	20.00	69.20	1,803.69	34.58	158.91	162.52	2.72	2.19	-5.00
1,918.00	19.70	69.60	1,893.05	45.93	189.10	194.59	0.35	-0.32	0.42
2,013.00	19.00	68.40	1,982.68	57.20	218.49	225.85	0.85	-0.74	-1.26
2,108.00	20.50	70.40	2,072.09	68.48	248.54	257.76	1.73	1.58	2.11
2,204.00	19.40	70.80	2,162.33	79.36	279.44	290.38	1.15	-1.15	0.42
2,299.00	18.50	72.90	2,252.18	88.98	308.74	321.16	1.19	-0.95	2.21
2,395.00	19.20	74.50	2,343.03	97.68	338.51	352.15	0.91	0.73	1.67
2,490.00	20.60	75.30	2,432.36	106.09	369.73	384.49	1.50	1.47	0.84
2,586.00	20.00	78.40	2,522.39	113.68	402.15	417.77	1.28	-0.63	3.23
2,681.00	19.60	77.90	2,611.78	120.29	433.64	449.92	0.46	-0.42	-0.53
2,777.00	20.00	81.70	2,702.11	126.03	465.64	482.34	1.40	0.42	3.96
2,872.00	20.20	77.00	2,791.33	132.07	497.69	514.90	1.71	0.21	-4.95
2,968.00	19.50	80.10	2,881.62	138.55	529.63	547.44	1.32	-0.73	3.23
3,063.00	20.10	77.50	2,971.01	144.81	561.19	579.57	1.12	0.63	-2.74
3,159.00	20.30	77.30	3,061.10	152.04	593.54	612.70	0.22	0.21	-0.21
3,254.00	19.90	76.20	3,150.32	159.52	625.31	645.34	0.58	-0.42	-1.16
3,350.00	18.60	73.20	3,240.95	167.85	655.84	676.98	1.70	-1.35	-3.13
3,445.00	17.50	74.20	3,331.28	176.11	684.09	706.39	1.20	-1.16	1.05
3,541.00	15.80	74.30	3,423.25	183.58	710.56	733.89	1.77	-1.77	0.10
3,636.00	16.20	77.90	3,514.57	189.86	735.97	760.06	1.13	0.42	3.79
3,732.00	15.50	74.10	3,606.92	196.18	761.40	786.27	1.30	-0.73	-3.96
3,827.00	14.60	72.30	3,698.66	203.30	785.02	810.91	1.07	-0.95	-1.89
3,923.00	12.70	75.10	3,791.95	209.69	806.74	833.54	2.09	-1.98	2.92
4,018.00	13.40	78.60	3,884.49	214.55	827.63	854.98	1.11	0.74	3.68
4,114.00	14.00	77.20	3,977.76	219.32	849.86	877.70	0.71	0.63	-1.46
4,209.00	12.90	78.60	4,070.16	223.97	871.46	899.78	1.21	-1.16	1.47
4,305.00	12.20	74.20	4,163.86	228.85	891.72	920.62	1.23	-0.73	-4.58
4,400.00	11.20	78.20	4,256.89	233.47	910.41	939.87	1.35	-1.05	4.21
4,496.00	10.00	72.10	4,351.25	237.93	927.47	957.51	1.71	-1.25	-6.35
4,591.00	8.60	69.40	4,445.00	242.97	941.97	972.80	1.54	-1.47	-2.84
4,686.00	7.80	75.20	4,539.03	247.12	954.85	986.31	1.21	-0.84	6.11
4,782.00	7.00	70.60	4,634.23	250.72	966.67	998.65	1.04	-0.83	-4.79
4,877.00	5.30	65.80	4,728.68	254.44	976.13	1,008.74	1.87	-1.79	-5.05
4,973.00	4.80	65.70	4,824.31	257.91	983.84	1,017.06	0.52	-0.52	-0.10
5,068.00	3.30	46.50	4,919.07	261.43	989.44	1,023.36	2.11	-1.58	-20.21
5,164.00	3.10	46.50	5,014.93	265.12	993.33	1,028.04	0.21	-0.21	0.00
5,259.00	1.10	13.50	5,109.86	267.78	995.41	1,030.71	2.38	-2.11	-34.74
5,355.00	0.70	25.40	5,205.85	269.20	995.87	1,031.51	0.46	-0.42	12.40
5,450.00	0.20	208.40	5,300.85	269.58	996.04	1,031.77	0.95	-0.53	-186.32
5,545.00	0.90	62.10	5,395.84	269.78	996.62	1,032.39	1.13	0.74	-154.00

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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)
5,641.00	1.00	199.60	5,491.84	269.35	997.01	1,032.65	1.84	0.10	143.23
5,736.00	1.10	261.50	5,586.82	268.43	995.83	1,031.28	1.14	0.11	65.16
5,832.00	0.30	254.80	5,682.82	268.23	994.68	1,030.11	0.84	-0.83	-6.98
5,927.00	0.70	20.80	5,777.81	268.71	994.64	1,030.20	0.96	0.42	132.63
6,023.00	1.70	68.00	5,873.79	269.79	996.17	1,031.95	1.38	1.04	49.17
6,118.00	1.80	61.00	5,968.75	271.04	998.78	1,034.79	0.25	0.11	-7.37
6,214.00	2.80	57.90	6,064.67	273.02	1,002.09	1,038.48	1.05	1.04	-3.23
6,309.00	1.90	65.10	6,159.59	274.91	1,005.48	1,042.24	1.00	-0.95	7.58
6,405.00	1.20	81.80	6,255.55	275.73	1,007.92	1,044.80	0.86	-0.73	17.40
6,500.00	0.70	106.80	6,350.54	275.70	1,009.46	1,046.29	0.67	-0.53	26.32
6,596.00	1.20	165.80	6,446.53	274.56	1,010.27	1,046.79	1.07	0.52	61.46
6,691.00	1.20	147.40	6,541.51	272.75	1,011.05	1,047.10	0.40	0.00	-19.37
6,787.00	1.60	213.00	6,637.49	270.78	1,010.86	1,046.43	1.62	0.42	68.33
6,882.00	2.90	224.30	6,732.41	267.95	1,008.46	1,043.40	1.44	1.37	11.89
6,978.00	1.50	227.20	6,828.34	265.36	1,005.84	1,040.22	1.46	-1.46	3.02
7,073.00	2.00	238.00	6,923.29	263.64	1,003.52	1,037.55	0.63	0.53	11.37
7,169.00	1.50	224.20	7,019.25	261.85	1,001.23	1,034.88	0.68	-0.52	-14.38
7,264.00	2.80	219.10	7,114.18	259.16	998.90	1,031.96	1.38	1.37	-5.37
7,298.00	2.50	224.00	7,148.14	257.98	997.86	1,030.66	1.10	-0.88	14.41
7,345.00	2.50	224.00	7,195.10	256.50	996.43	1,028.91	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
779.20	779.16	9 5/8"	0.80	1.02

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,159.00	3,061.10	152.04	593.54	As of Dec 15
5,259.00	5,109.86	267.78	995.41	As of Dec 16
6,596.00	6,446.53	274.56	1,010.27	As of Dec 17
7,345.00	7,195.10	256.50	996.43	Proj to TD @ 7345' MD

Checked By: _____ Approved By: _____ Date: _____