



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado

MDP 6 Pad

GGU Miller 23C-32-691

Wellbore #1

Survey: Surveys

Standard Survey Report

08 December, 2010



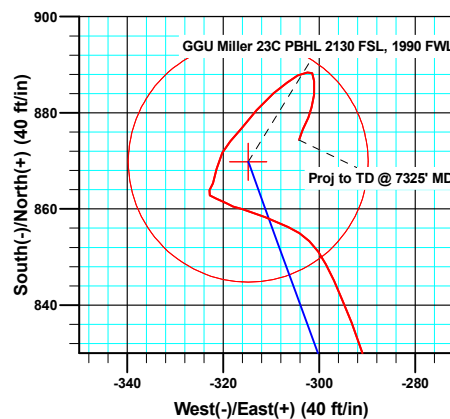
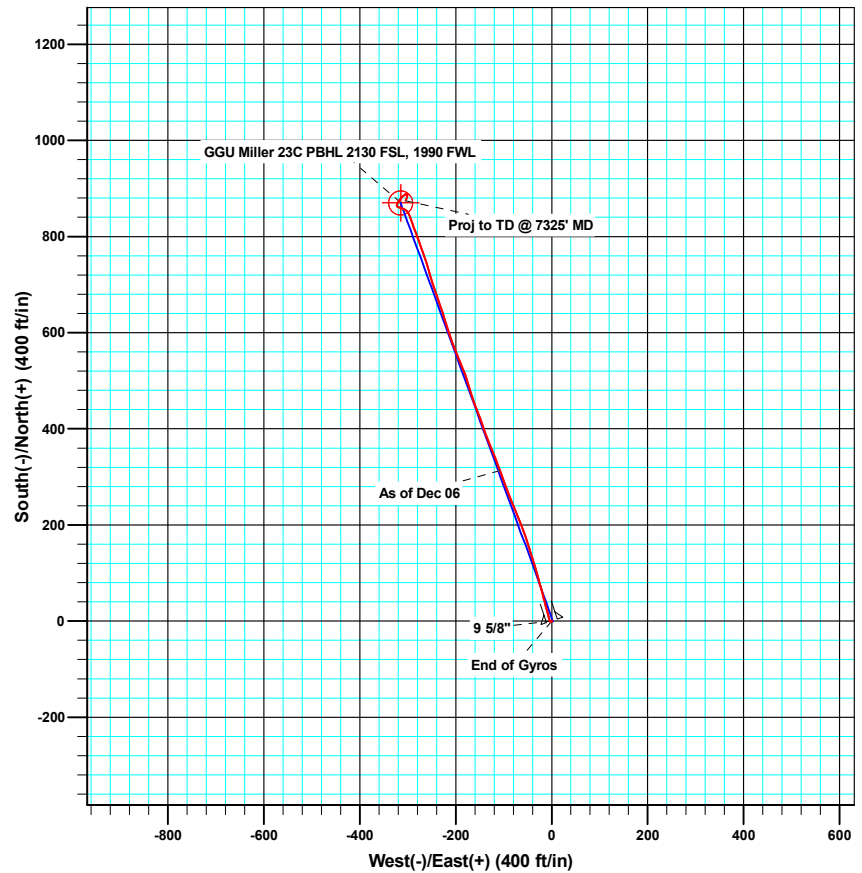
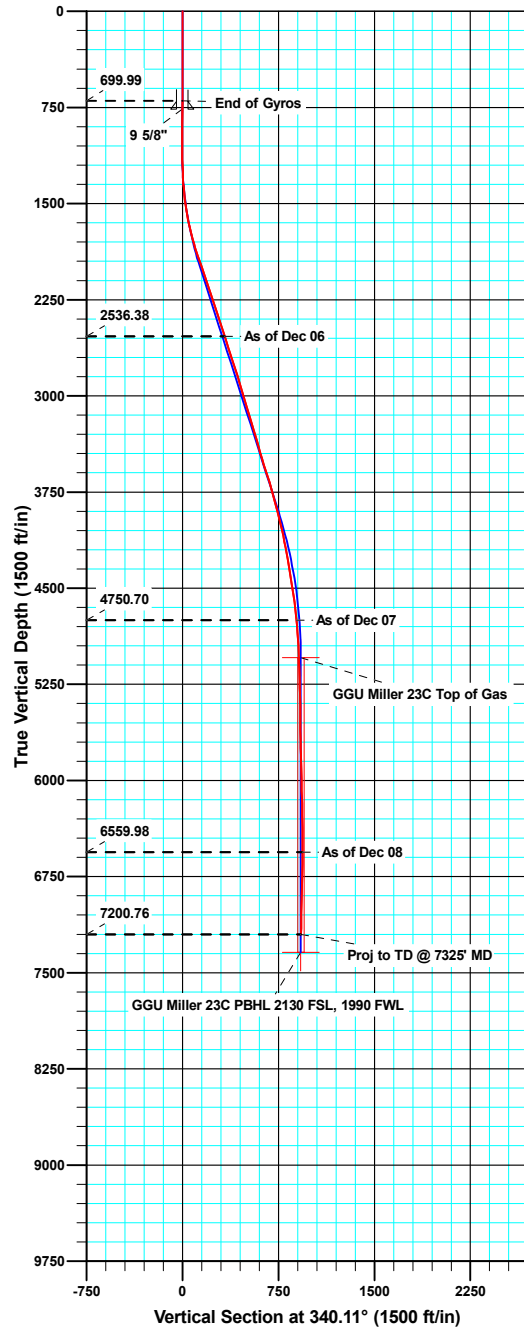


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WELL DETAILS: GGU Miller 23C-32-691

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	1606618.80	2413274.75	39° 28' 49.84 N	107° 34' 43.80 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
2536.38	2584.00	17.80	341.20	312.64	-107.75	330.65	337.11	As of Dec 06
4750.70	4873.00	5.80	337.30	841.10	-295.12	891.33	898.13	As of Dec 07
6559.98	6684.00	1.00	76.70	888.36	-302.48	938.28	969.95	As of Dec 08
7200.76	7325.00	2.20	198.30	874.36	-304.13	925.67	985.73	Proj to TD @ 7325' MD

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Miller 23C-32-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6142.00ft
Site:	MDP 6 Pad	MD Reference:	KB @ 6142.00ft
Well:	GGU Miller 23C-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 23C-32-691					
Well Position	+N/-S	0.00 ft	Northing:	1,606,618.79 usft	Latitude:	39° 28' 49.84 N
	+E/-W	0.00 ft	Easting:	2,413,274.75 usft	Longitude:	107° 34' 43.80 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	340.11	

Survey Program	Date	12/08/10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	700.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
884.00	7,325.00	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)	
700.00	0.30	129.98	699.99	0.43	0.49	0.24	0.00	0.00	0.00	
764.90	0.19	161.68	764.89	0.22	0.66	-0.02	0.26	-0.16	48.84	
9 5/8"										
884.00	0.30	236.30	883.99	-0.15	0.46	-0.30	0.26	0.09	62.66	
973.00	0.70	234.00	972.99	-0.60	-0.17	-0.50	0.45	0.45	-2.58	
1,065.00	1.20	230.90	1,064.98	-1.53	-1.38	-0.98	0.55	0.54	-3.37	
1,157.00	1.10	300.70	1,156.96	-1.69	-2.88	-0.61	1.43	-0.11	75.87	
1,250.00	2.50	344.50	1,249.92	0.72	-4.19	2.10	2.01	1.51	47.10	
1,345.00	3.90	346.00	1,344.77	5.85	-5.53	7.38	1.48	1.47	1.58	
1,440.00	6.00	344.40	1,439.41	13.77	-7.65	15.55	2.22	2.21	-1.68	

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Well:	GGU Miller 23C-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	8.50	344.70	1,534.63	25.45	-10.87	27.63	2.60	2.60	0.31
1,631.00	11.30	346.40	1,628.21	41.27	-14.91	43.88	2.96	2.95	1.79
1,726.00	14.20	345.20	1,720.86	61.58	-20.08	64.74	3.07	3.05	-1.26
1,822.00	16.70	343.40	1,813.38	86.19	-27.02	90.24	2.65	2.60	-1.88
1,917.00	19.00	343.90	1,903.80	114.13	-35.21	119.31	2.43	2.42	0.53
2,012.00	19.00	342.60	1,993.63	143.75	-44.13	150.19	0.45	0.00	-1.37
2,108.00	18.70	340.40	2,084.48	173.16	-53.96	181.19	0.80	-0.31	-2.29
2,203.00	18.50	339.20	2,174.52	201.60	-64.42	211.49	0.45	-0.21	-1.26
2,298.00	18.50	336.60	2,264.61	229.52	-75.76	241.60	0.87	0.00	-2.74
2,393.00	18.20	339.40	2,354.78	257.24	-86.97	271.48	0.98	-0.32	2.95
2,489.00	18.10	338.60	2,446.00	285.16	-97.68	301.38	0.28	-0.10	-0.83
2,584.00	17.80	341.20	2,536.38	312.64	-107.75	330.65	0.90	-0.32	2.74
2,679.00	17.80	337.90	2,626.84	339.84	-117.89	359.68	1.06	0.00	-3.47
2,775.00	17.70	337.90	2,718.27	366.96	-128.90	388.92	0.10	-0.10	0.00
2,870.00	18.40	340.80	2,808.59	394.50	-139.27	418.35	1.20	0.74	3.05
2,965.00	16.70	339.40	2,899.17	421.44	-149.00	446.99	1.84	-1.79	-1.47
3,061.00	16.30	339.80	2,991.21	446.99	-158.50	474.25	0.43	-0.42	0.42
3,156.00	16.70	341.10	3,082.30	472.42	-167.53	501.23	0.57	0.42	1.37
3,251.00	16.60	343.30	3,173.32	498.33	-175.85	528.43	0.67	-0.11	2.32
3,347.00	16.10	339.10	3,265.44	523.90	-184.54	555.43	1.34	-0.52	-4.38
3,442.00	16.80	337.20	3,356.55	548.86	-194.56	582.31	0.93	0.74	-2.00
3,537.00	16.30	338.50	3,447.62	573.92	-204.77	609.35	0.65	-0.53	1.37
3,633.00	17.60	341.40	3,539.44	600.22	-214.33	637.33	1.61	1.35	3.02
3,728.00	17.50	343.40	3,630.02	627.52	-223.00	665.95	0.64	-0.11	2.11
3,824.00	16.20	341.00	3,721.90	654.01	-231.48	693.75	1.54	-1.35	-2.50
3,919.00	14.60	340.00	3,813.49	677.80	-239.89	718.98	1.71	-1.68	-1.05
4,015.00	14.20	340.90	3,906.47	700.29	-247.88	742.85	0.48	-0.42	0.94
4,110.00	14.30	344.70	3,998.55	722.62	-254.79	766.20	0.99	0.11	4.00
4,205.00	12.00	343.40	4,091.05	743.40	-260.71	787.75	2.44	-2.42	-1.37
4,300.00	10.80	341.60	4,184.18	761.31	-266.34	806.51	1.32	-1.26	-1.89
4,396.00	10.10	339.90	4,278.59	777.75	-272.07	823.92	0.80	-0.73	-1.77
4,491.00	9.30	339.90	4,372.23	792.78	-277.57	839.93	0.84	-0.84	0.00
4,587.00	8.30	338.60	4,467.10	806.52	-282.77	854.61	1.06	-1.04	-1.35
4,682.00	8.20	341.90	4,561.11	819.35	-287.37	868.24	0.51	-0.11	3.47
4,777.00	6.90	340.80	4,655.29	831.17	-291.35	880.72	1.38	-1.37	-1.16
4,873.00	5.80	337.30	4,750.70	841.10	-295.12	891.33	1.21	-1.15	-3.65
4,968.00	4.00	332.10	4,845.35	848.45	-298.53	899.40	1.95	-1.89	-5.47
5,063.00	3.30	314.30	4,940.16	853.29	-302.03	905.15	1.39	-0.74	-18.74
5,159.00	3.10	292.90	5,036.01	856.23	-306.40	909.40	1.25	-0.21	-22.29
5,254.00	3.30	294.40	5,130.86	858.36	-311.26	913.05	0.23	0.21	1.58
5,350.00	2.70	282.70	5,226.73	860.00	-315.98	916.20	0.89	-0.63	-12.19
5,445.00	1.70	301.20	5,321.66	861.22	-319.37	918.50	1.28	-1.05	19.47
5,540.00	1.10	284.90	5,416.63	862.18	-321.46	920.12	0.75	-0.63	-17.16

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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)	
5,636.00	0.70	313.20	5,512.62	862.82	-322.77	921.17	0.61	-0.42	29.48	
5,731.00	0.90	27.80	5,607.61	863.88	-322.85	922.19	1.03	0.21	78.53	
5,826.00	1.10	22.80	5,702.60	865.38	-322.15	923.36	0.23	0.21	-5.26	
5,922.00	2.50	11.80	5,798.55	868.28	-321.36	925.82	1.50	1.46	-11.46	
6,017.00	1.90	29.30	5,893.48	871.68	-320.17	928.61	0.94	-0.63	18.42	
6,113.00	1.60	40.30	5,989.44	874.09	-318.52	930.32	0.47	-0.31	11.46	
6,207.00	2.60	41.20	6,083.37	876.70	-316.27	932.00	1.06	1.06	0.96	
6,302.00	3.50	38.60	6,178.24	880.58	-313.04	934.56	0.96	0.95	-2.74	
6,398.00	2.50	55.10	6,274.10	884.07	-309.49	936.63	1.37	-1.04	17.19	
6,493.00	1.80	45.80	6,369.04	886.30	-306.73	937.78	0.82	-0.74	-9.79	
6,589.00	1.50	70.80	6,465.00	887.76	-304.46	938.39	0.80	-0.31	26.04	
6,684.00	1.00	76.70	6,559.98	888.36	-302.48	938.28	0.54	-0.53	6.21	
6,779.00	0.40	141.30	6,654.97	888.29	-301.46	937.87	0.95	-0.63	68.00	
6,875.00	1.70	171.00	6,750.95	886.63	-301.03	936.15	1.42	1.35	30.94	
6,970.00	1.80	189.80	6,845.91	883.76	-301.06	933.47	0.61	0.11	19.79	
7,066.00	1.40	190.80	6,941.87	881.13	-301.54	931.15	0.42	-0.42	1.04	
7,161.00	1.30	204.50	7,036.84	879.01	-302.20	929.39	0.35	-0.11	14.42	
7,256.00	1.70	206.70	7,131.81	876.77	-303.28	927.65	0.43	0.42	2.32	
7,278.00	2.20	198.30	7,153.80	876.07	-303.56	927.09	2.61	2.27	-38.18	
7,325.00	2.20	198.30	7,200.76	874.36	-304.13	925.67	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
764.90	764.89	9 5/8"	0.80	1.02	

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,584.00	2,536.38	312.64	-107.75	As of Dec 06	
4,873.00	4,750.70	841.10	-295.12	As of Dec 07	
6,684.00	6,559.98	888.36	-302.48	As of Dec 08	
7,325.00	7,200.76	874.36	-304.13	Proj to TD @ 7325' MD	

Checked By: _____ Approved By: _____ Date: _____