Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado
MDP 6 Pad
GGU Miller 24C-32-691

Wellbore #1

Survey: Surveys

Standard Survey Report

05 November, 2010

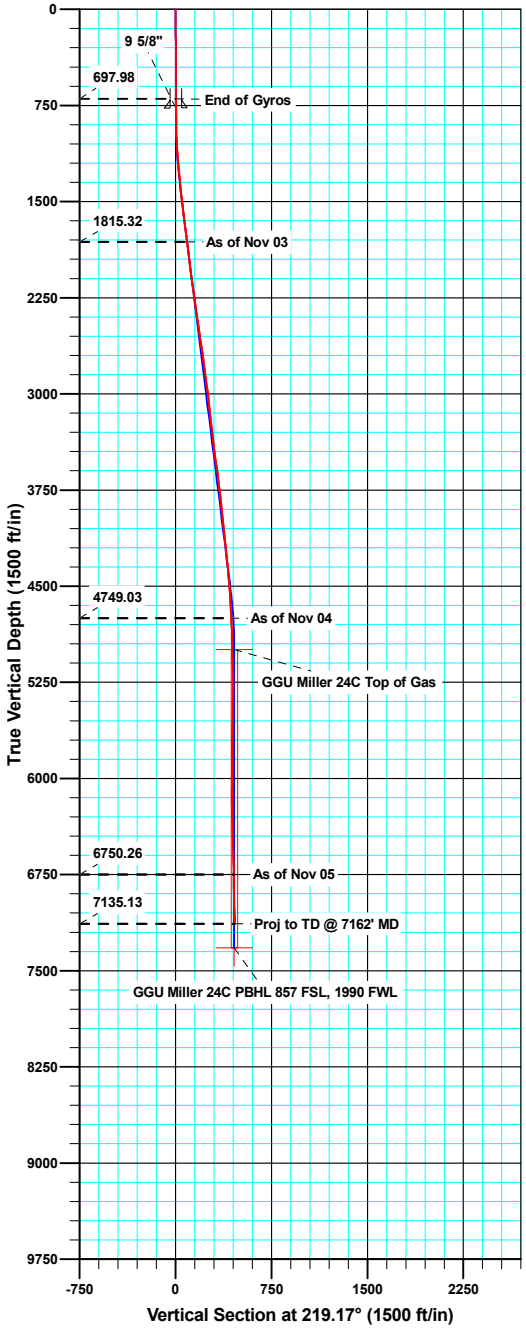
Sharewell
Energy Services, LP

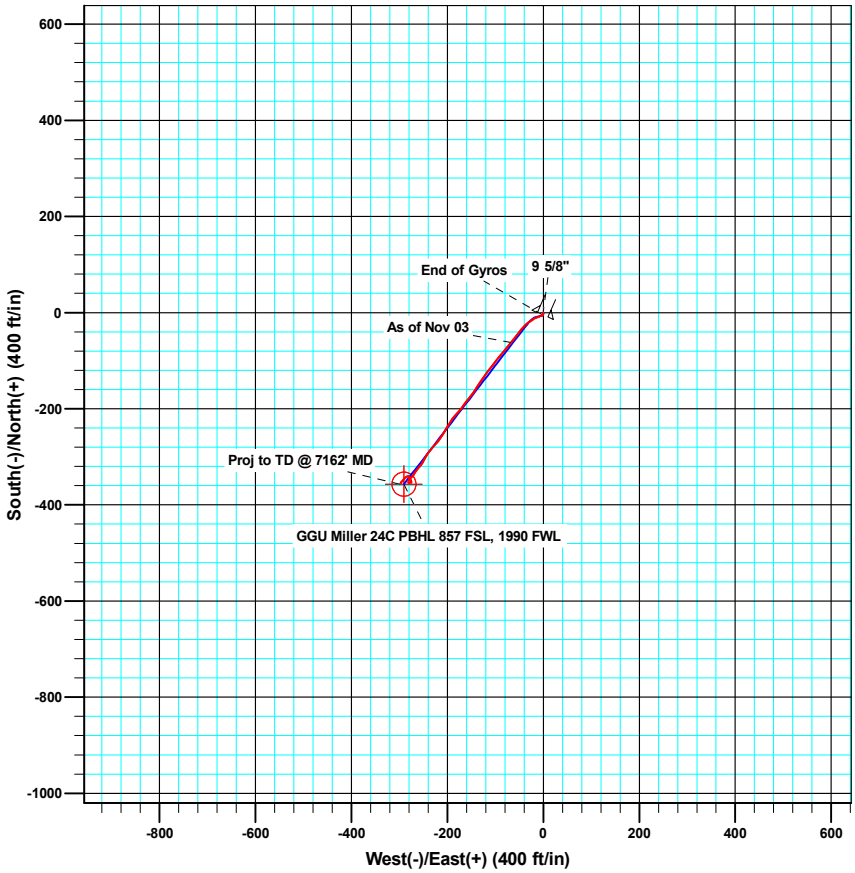
Bill Barrett Corporation

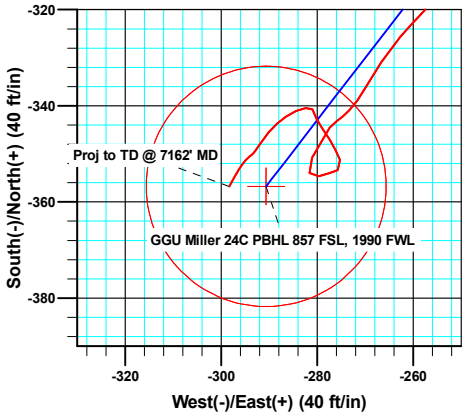
WELL DETAILS: GGU Miller 24C-32-691

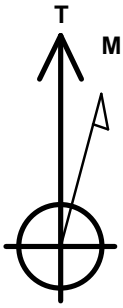
Ground Level: 6120.00

North American Datum 1983			US State Plane 1983		Colorado Central Zone
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	1606572.84	2413261.27	39° 28' 49.39 N	107° 34' 43.95 W









Azimuths to True North
Magnetic North: 10.22°

Magnetic Field
Strength: 52392.4snT
Dip Angle: 65.83°
Date: 10/14/2010
Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
1815.32	1820.00	7.30	218.50	-61.87	-67.25	90.45	89.76	As of Nov 03
4749.03	4775.00	2.80	223.90	-340.85	-273.28	436.86	437.52	As of Nov 04
6750.26	6777.00	0.60	225.60	-349.98	-293.36	456.63	493.09	As of Nov 05
7135.13	7162.00	2.50	209.10	-356.77	-298.35	465.04	501.62	Proj to TD @ 7162' MD

Sharewell Energy Services, LP

Company:	Bill Barrett Corp.	**Local Co-ordinate Reference:**	Well GGU Miller 24C-32-691
Project:	Garfield County, Colorado	**TVD Reference:**	KB @ 6142.00ft
Site:	MDP 6 Pad	**MD Reference:**	KB @ 6142.00ft
Well:	GGU Miller 24C-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 24C-32-691

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,606,572.83 usft	**Latitude:**	39° 28' 49.39 N
	+E/-W	0.00 ft	**Easting:**	2,413,261.28 usft	**Longitude:**	107° 34' 43.95 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	219.17

Survey Program **Date** 11/05/10

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
50.00	698.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard
882.00	7,162.00	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)**
698.00	0.31	204.00	697.98	-4.51	-1.02	4.14	0.00	0.00	0.00
769.60	0.27	203.50	769.58	-4.84	-1.17	4.49	0.06	-0.06	-0.69
9 5/8"									
882.00	0.20	202.30	881.98	-5.26	-1.35	4.93	0.06	-0.06	-1.07
973.00	2.40	255.10	972.95	-5.90	-3.25	6.63	2.51	2.42	58.02
1,065.00	4.60	244.60	1,064.78	-7.98	-8.44	11.52	2.48	2.39	-11.41
1,158.00	4.70	250.10	1,157.47	-10.88	-15.39	18.15	0.49	0.11	5.91
1,250.00	5.60	238.80	1,249.10	-14.48	-22.78	25.62	1.47	0.98	-12.28
1,343.00	6.10	234.10	1,341.62	-19.73	-30.66	34.66	0.74	0.54	-5.05
1,438.00	6.50	221.30	1,436.05	-26.73	-38.30	44.92	1.53	0.42	-13.47

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Site:	MDP 6 Pad	**MD Reference:**	KB @ 6142.00ft
Well:	GGU Miller 24C-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)
1,534.00	6.70	222.50	1,531.41	-34.94	-45.67	55.94	0.25	0.21	1.25
1,629.00	6.90	218.20	1,625.74	-43.51	-52.94	67.17	0.58	0.21	-4.53
1,724.00	6.90	217.50	1,720.06	-52.52	-59.95	78.58	0.09	0.00	-0.74
1,820.00	7.30	218.50	1,815.32	-61.87	-67.25	90.45	0.44	0.42	1.04
1,915.00	7.30	219.30	1,909.55	-71.27	-74.83	102.52	0.11	0.00	0.84
2,011.00	7.50	220.60	2,004.75	-80.74	-82.77	114.88	0.27	0.21	1.35
2,106.00	7.40	220.10	2,098.95	-90.13	-90.75	127.20	0.13	-0.11	-0.53
2,201.00	7.90	217.30	2,193.10	-100.00	-98.65	139.84	0.66	0.53	-2.95
2,296.00	8.30	218.50	2,287.15	-110.56	-106.87	153.22	0.46	0.42	1.26
2,392.00	8.30	215.50	2,382.15	-121.63	-115.21	167.06	0.45	0.00	-3.13
2,487.00	8.30	215.20	2,476.15	-132.81	-123.14	180.75	0.05	0.00	-0.32
2,582.00	8.40	214.90	2,570.15	-144.11	-131.06	194.51	0.11	0.11	-0.32
2,677.00	8.70	214.00	2,664.09	-155.75	-139.05	208.58	0.35	0.32	-0.95
2,773.00	7.30	212.90	2,759.16	-166.90	-146.43	221.88	1.47	-1.46	-1.15
2,868.00	7.40	219.30	2,853.38	-176.70	-153.58	233.99	0.87	0.11	6.74
2,963.00	7.60	219.70	2,947.56	-186.26	-161.47	246.39	0.22	0.21	0.42
3,059.00	6.60	212.80	3,042.83	-195.79	-168.51	258.22	1.37	-1.04	-7.19
3,154.00	6.70	224.50	3,137.19	-204.33	-175.35	269.17	1.43	0.11	12.32
3,249.00	6.70	218.70	3,231.55	-212.61	-182.70	280.23	0.71	0.00	-6.11
3,345.00	6.80	215.40	3,326.88	-221.61	-189.50	291.50	0.42	0.10	-3.44
3,440.00	7.00	213.80	3,421.19	-231.01	-195.97	302.88	0.29	0.21	-1.68
3,536.00	7.60	211.70	3,516.41	-241.27	-202.56	314.99	0.68	0.63	-2.19
3,631.00	7.40	210.30	3,610.60	-251.89	-208.95	327.27	0.29	-0.21	-1.47
3,726.00	6.90	214.20	3,704.86	-261.90	-215.25	339.00	0.73	-0.53	4.11
3,822.00	6.20	222.20	3,800.24	-270.51	-221.97	349.92	1.20	-0.73	8.33
3,917.00	6.60	222.40	3,894.65	-278.34	-229.10	360.49	0.42	0.42	0.21
4,013.00	6.20	219.00	3,990.05	-286.44	-236.08	371.18	0.57	-0.42	-3.54
4,108.00	6.20	213.00	4,084.49	-294.73	-242.10	381.42	0.68	0.00	-6.32
4,204.00	6.00	210.30	4,179.95	-303.41	-247.46	391.53	0.36	-0.21	-2.81
4,299.00	6.00	206.30	4,274.43	-312.15	-252.16	401.27	0.44	0.00	-4.21
4,395.00	5.50	222.80	4,369.95	-320.02	-257.51	410.76	1.79	-0.52	17.19
4,489.00	3.90	221.60	4,463.63	-325.72	-262.70	418.45	1.71	-1.70	-1.28
4,585.00	3.90	213.30	4,559.41	-330.89	-266.66	424.96	0.59	0.00	-8.65
4,680.00	3.90	210.10	4,654.19	-336.38	-270.05	431.36	0.23	0.00	-3.37
4,775.00	2.80	223.90	4,749.03	-340.85	-273.28	436.86	1.43	-1.16	14.53
4,871.00	1.20	241.40	4,844.97	-343.02	-275.79	440.13	1.76	-1.67	18.23
4,966.00	1.50	213.10	4,939.94	-344.54	-277.34	442.29	0.76	0.32	-29.79
5,062.00	2.30	210.30	5,035.89	-347.26	-279.00	445.44	0.84	0.83	-2.92
5,157.00	2.60	210.60	5,130.80	-350.76	-281.06	449.45	0.32	0.32	0.32
5,252.00	1.80	156.30	5,225.74	-353.98	-281.55	452.27	2.24	-0.84	-57.16
5,348.00	1.80	60.60	5,321.71	-354.62	-279.63	451.55	2.78	0.00	-99.69
5,443.00	1.20	93.60	5,416.68	-353.95	-277.34	449.58	1.08	-0.63	34.74
5,538.00	1.10	45.60	5,511.66	-353.37	-275.70	448.10	0.99	-0.11	-50.53

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Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
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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)
5,634.00	1.80	352.80	5,607.64	-351.23	-275.23	446.14	1.49	0.73	-55.00
5,729.00	1.10	308.50	5,702.61	-349.18	-276.13	445.12	1.34	-0.74	-46.63
5,824.00	2.20	340.20	5,797.57	-346.90	-277.46	444.19	1.46	1.16	33.37
5,920.00	1.10	299.70	5,893.53	-344.71	-278.88	443.39	1.60	-1.15	-42.19
6,015.00	1.90	344.40	5,988.50	-342.74	-280.10	442.64	1.43	0.84	47.05
6,110.00	0.80	316.40	6,083.47	-340.74	-280.98	441.64	1.32	-1.16	-29.47
6,205.00	1.10	260.60	6,178.46	-340.41	-282.34	442.24	0.98	0.32	-58.74
6,301.00	1.50	246.10	6,274.44	-341.07	-284.40	444.06	0.54	0.42	-15.10
6,396.00	1.40	237.20	6,369.41	-342.20	-286.51	446.27	0.26	-0.11	-9.37
6,491.00	1.50	225.50	6,464.38	-343.71	-288.37	448.61	0.33	0.11	-12.32
6,587.00	1.50	223.30	6,560.34	-345.50	-290.13	451.11	0.06	0.00	-2.29
6,682.00	2.30	212.10	6,655.29	-348.02	-291.99	454.24	0.92	0.84	-11.79
6,777.00	0.60	225.60	6,750.26	-349.98	-293.36	456.63	1.81	-1.79	14.21
6,873.00	0.40	239.80	6,846.25	-350.50	-294.01	457.44	0.24	-0.21	14.79
6,968.00	0.90	223.20	6,941.25	-351.21	-294.81	458.50	0.56	0.53	-17.47
7,064.00	2.10	213.60	7,037.21	-353.23	-296.30	461.00	1.27	1.25	-10.00
7,115.00	2.50	209.10	7,088.17	-354.98	-297.36	463.02	0.86	0.78	-8.82
7,162.00	2.50	209.10	7,135.13	-356.77	-298.35	465.04	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
769.60	769.58	9 5/8"	0.80	1.02

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,820.00	1,815.32	-61.87	-67.25	As of Nov 03
4,775.00	4,749.03	-340.85	-273.28	As of Nov 04
6,777.00	6,750.26	-349.98	-293.36	As of Nov 05
7,162.00	7,135.13	-356.77	-298.35	Proj to TD @ 7162' MD

Checked By: _____ Approved By: _____ Date: _____