



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

GGU 14-19 Pad

GGU Daley 34C-19-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

27 May, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Daley 34C-19-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5846.00ft
Site:	GGU 14-19 Pad	MD Reference:	KB @ 5846.00ft
Well:	GGU Daley 34C-19-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Project	Garfield County, Colorado [NAD83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		GGU 14-19 Pad			
Site Position:		Northing:	1,616,207.75 usft	Latitude:	39° 30' 23.35 N
From:	Lat/Long	Easting:	2,407,793.69 usft	Longitude:	107° 35' 56.51 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.32 °

Well	GGU Daley 34C-19-691					
Well Position	+N/-S	0.00 ft	Northing:	1,616,239.93 usft	Latitude:	39° 30' 23.67 N
	+E/-W	0.00 ft	Easting:	2,407,803.74 usft	Longitude:	107° 35' 56.39 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,823.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/23/11	10.20	65.83	52,332

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	66.24	

Survey Program	Date	05/27/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	735.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
880.00	7,538.00	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)	
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50.00	0.490	209.20	50.00	-0.19	-0.10	-0.17	0.98	0.98	0.00	
100.00	0.610	230.36	100.00	-0.54	-0.41	-0.60	0.47	0.24	42.32	
150.00	0.520	227.12	149.99	-0.87	-0.78	-1.07	0.19	-0.18	-6.48	
200.00	0.400	215.64	199.99	-1.16	-1.05	-1.43	0.30	-0.24	-22.96	
250.00	0.230	270.63	249.99	-1.30	-1.25	-1.67	0.66	-0.34	109.98	
300.00	0.100	313.49	299.99	-1.27	-1.39	-1.78	0.34	-0.26	85.72	
350.00	0.050	256.59	349.99	-1.25	-1.44	-1.82	0.17	-0.10	-113.80	
400.00	0.200	246.49	399.99	-1.29	-1.54	-1.93	0.30	0.30	-20.20	
450.00	0.170	231.06	449.99	-1.37	-1.68	-2.09	0.12	-0.06	-30.86	

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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)
500.00	0.310	225.26	499.99	-1.51	-1.83	-2.29	0.28	0.28	-11.60
550.00	0.280	210.29	549.99	-1.71	-1.99	-2.51	0.16	-0.06	-29.94
600.00	0.310	159.65	599.99	-1.94	-2.00	-2.62	0.51	0.06	-101.28
650.00	0.280	150.00	649.99	-2.18	-1.90	-2.61	0.12	-0.06	-19.30
700.00	0.320	125.64	699.99	-2.36	-1.72	-2.53	0.26	0.08	-48.72
735.00	0.350	227.02	734.99	-2.49	-1.72	-2.58	1.48	0.09	289.66
792.00	0.324	202.58	791.99	-2.76	-1.91	-2.86	0.25	-0.05	-42.88
9 5/8"									
880.00	0.400	168.60	879.99	-3.29	-1.94	-3.11	0.25	0.09	-38.61
973.00	1.700	66.60	972.97	-3.06	-0.61	-1.80	1.96	1.40	-109.68
1,065.00	4.900	72.60	1,064.81	-1.34	4.39	3.47	3.49	3.48	6.52
1,157.00	7.700	73.80	1,156.24	1.55	14.06	13.49	3.05	3.04	1.30
1,249.00	10.700	71.30	1,247.05	6.01	28.07	28.11	3.29	3.26	-2.72
1,339.00	13.600	64.40	1,335.03	13.26	45.53	47.02	3.60	3.22	-7.67
1,437.00	16.400	62.00	1,429.68	24.74	68.14	72.33	2.93	2.86	-2.45
1,532.00	19.600	63.70	1,520.02	38.10	94.28	101.63	3.41	3.37	1.79
1,627.00	22.100	66.60	1,608.79	52.26	124.97	135.43	2.85	2.63	3.05
1,723.00	25.000	68.50	1,696.79	66.87	160.42	173.77	3.12	3.02	1.98
1,818.00	27.900	67.60	1,781.84	82.70	199.66	216.05	3.08	3.05	-0.95
1,913.00	30.500	65.80	1,864.76	101.05	242.21	262.39	2.89	2.74	-1.89
2,009.00	30.800	66.30	1,947.35	120.92	286.93	311.33	0.41	0.31	0.52
2,104.00	31.800	62.00	2,028.53	142.45	331.31	360.62	2.58	1.05	-4.53
2,199.00	30.200	62.90	2,109.96	165.09	374.68	409.44	1.75	-1.68	0.95
2,295.00	29.900	63.40	2,193.06	186.80	417.57	457.44	0.41	-0.31	0.52
2,390.00	29.500	63.90	2,275.58	207.69	459.75	504.46	0.50	-0.42	0.53
2,486.00	28.600	64.10	2,359.50	228.13	501.65	551.04	0.94	-0.94	0.21
2,581.00	27.900	65.30	2,443.18	247.35	542.29	595.99	0.95	-0.74	1.26
2,676.00	30.000	67.70	2,526.31	265.65	584.47	641.96	2.53	2.21	2.53
2,772.00	29.400	67.30	2,609.70	283.85	628.41	689.51	0.66	-0.63	-0.42
2,867.00	28.600	68.00	2,692.79	301.37	671.01	735.55	0.91	-0.84	0.74
2,963.00	29.200	67.50	2,776.83	318.94	713.94	781.93	0.67	0.63	-0.52
3,058.00	28.900	68.30	2,859.88	336.29	756.68	828.04	0.52	-0.32	0.84
3,153.00	29.200	64.90	2,942.93	354.61	799.00	874.15	1.77	0.32	-3.58
3,249.00	28.800	63.70	3,026.90	374.79	840.94	920.67	0.74	-0.42	-1.25
3,344.00	28.400	63.40	3,110.31	395.05	881.65	966.09	0.45	-0.42	-0.32
3,439.00	28.200	67.10	3,193.96	413.90	922.53	1,011.10	1.86	-0.21	3.89
3,535.00	26.300	66.00	3,279.30	431.38	962.86	1,055.05	2.05	-1.98	-1.15
3,630.00	23.400	64.70	3,365.50	448.00	999.15	1,094.97	3.11	-3.05	-1.37
3,725.00	22.700	62.30	3,452.91	464.59	1,032.44	1,132.11	1.23	-0.74	-2.53
3,821.00	21.400	64.90	3,541.89	480.63	1,064.70	1,168.10	1.69	-1.35	2.71
3,916.00	19.600	66.70	3,630.87	494.28	1,095.03	1,201.37	2.01	-1.89	1.89
4,011.00	17.100	67.20	3,721.04	506.00	1,122.55	1,231.27	2.64	-2.63	0.53
4,107.00	15.100	67.80	3,813.27	516.19	1,147.14	1,257.89	2.09	-2.08	0.63

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Survey									
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4,202.00	13.900	70.50	3,905.24	524.68	1,169.35	1,281.64	1.45	-1.26	2.84
4,297.00	11.800	67.70	3,997.86	532.17	1,189.10	1,302.73	2.31	-2.21	-2.95
4,393.00	10.000	67.70	4,092.12	539.06	1,205.89	1,320.87	1.88	-1.88	0.00
4,488.00	7.600	64.60	4,186.00	544.89	1,219.20	1,335.40	2.57	-2.53	-3.26
4,583.00	7.100	66.60	4,280.21	549.91	1,230.26	1,347.55	0.59	-0.53	2.11
4,678.00	5.900	66.90	4,374.60	554.16	1,240.14	1,358.31	1.26	-1.26	0.32
4,774.00	3.600	66.80	4,470.27	557.29	1,247.45	1,366.25	2.40	-2.40	-0.10
4,869.00	2.300	60.10	4,565.14	559.41	1,251.85	1,371.13	1.41	-1.37	-7.05
4,965.00	1.900	67.80	4,661.07	560.97	1,254.99	1,374.64	0.51	-0.42	8.02
5,060.00	2.100	67.30	4,756.02	562.24	1,258.05	1,377.95	0.21	0.21	-0.53
5,155.00	1.100	60.30	4,850.98	563.36	1,260.45	1,380.60	1.07	-1.05	-7.37
5,251.00	1.100	105.90	4,946.96	563.57	1,262.14	1,382.23	0.89	0.00	47.50
5,346.00	0.400	182.40	5,041.95	562.99	1,263.00	1,382.78	1.14	-0.74	80.53
5,441.00	1.300	269.90	5,136.95	562.65	1,261.91	1,381.65	1.41	0.95	92.11
5,537.00	1.800	263.70	5,232.91	562.48	1,259.32	1,379.21	0.55	0.52	-6.46
5,632.00	2.500	262.40	5,327.84	562.05	1,255.79	1,375.80	0.74	0.74	-1.37
5,727.00	2.000	244.80	5,422.77	561.07	1,252.23	1,372.15	0.89	-0.53	-18.53
5,823.00	2.100	245.50	5,518.71	559.62	1,249.12	1,368.72	0.11	0.10	0.73
5,918.00	1.300	265.00	5,613.67	558.81	1,246.46	1,365.96	1.03	-0.84	20.53
6,013.00	0.600	356.40	5,708.66	559.21	1,245.35	1,365.11	1.52	-0.74	96.21
6,109.00	0.400	93.60	5,804.66	559.69	1,245.66	1,365.58	0.79	-0.21	101.25
6,204.00	0.500	96.90	5,899.65	559.62	1,246.40	1,366.23	0.11	0.11	3.47
6,299.00	0.800	98.00	5,994.65	559.48	1,247.47	1,367.15	0.32	0.32	1.16
6,395.00	0.800	128.00	6,090.64	558.97	1,248.66	1,368.04	0.43	0.00	31.25
6,490.00	1.100	119.10	6,185.62	558.12	1,249.98	1,368.90	0.35	0.32	-9.37
6,585.00	1.300	128.10	6,280.60	557.01	1,251.62	1,369.96	0.29	0.21	9.47
6,681.00	0.800	142.50	6,376.59	555.81	1,252.89	1,370.63	0.58	-0.52	15.00
6,776.00	0.900	11.90	6,471.58	556.01	1,253.45	1,371.23	1.63	0.11	-137.47
6,871.00	1.000	40.00	6,566.57	557.38	1,254.13	1,372.41	0.50	0.11	29.58
6,966.00	1.100	54.10	6,661.55	558.55	1,255.40	1,374.04	0.29	0.11	14.84
7,062.00	1.200	57.70	6,757.53	559.63	1,257.00	1,375.94	0.13	0.10	3.75
7,157.00	1.300	79.30	6,852.51	560.36	1,258.90	1,377.97	0.50	0.11	22.74
7,253.00	1.200	80.60	6,948.49	560.72	1,260.96	1,380.00	0.11	-0.10	1.35
7,348.00	1.500	92.00	7,043.46	560.84	1,263.19	1,382.09	0.42	0.32	12.00
7,443.00	1.800	94.10	7,138.42	560.69	1,265.92	1,384.53	0.32	0.32	2.21
7,491.00	1.800	97.50	7,186.40	560.54	1,267.42	1,385.84	0.22	0.00	7.08
7,538.00	1.800	97.50	7,233.38	560.35	1,268.88	1,387.10	0.00	0.00	0.00

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Site:	GGU 14-19 Pad	MD Reference:	KB @ 5846.00ft
Well:	GGU Daley 34C-19-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (ft)	Hole Diameter (ft)
792.00	791.99	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
735.00	734.99	-2.49	-1.72	End of Gyros	

Checked By: _____ Approved By: _____ Date: _____