



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

GGU 14-19 Pad

GGU Daley 14A-19-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

16 May, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Daley 14A-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 14A-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 14A-19-691					
Well Position	+N/-S	0.00 ft	Northing:	1,616,223.78 usft	Latitude:	39° 30' 23.50 N
	+E/-W	0.00 ft	Easting:	2,407,793.49 usft	Longitude:	107° 35' 56.52 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	263.89	

Survey Program	Date	05/16/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	730.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
880.00	7,638.00	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	0.00
50.00	0.190	359.17	50.00	0.08	0.00	-0.01	0.38	0.38	0.00	
100.00	0.220	76.96	100.00	0.19	0.09	-0.11	0.52	0.06	155.58	
150.00	0.100	141.83	150.00	0.17	0.21	-0.23	0.40	-0.24	129.74	
200.00	0.190	158.63	200.00	0.06	0.27	-0.27	0.20	0.18	33.60	
250.00	0.130	152.33	250.00	-0.06	0.33	-0.32	0.12	-0.12	-12.60	
300.00	0.220	166.16	300.00	-0.21	0.37	-0.35	0.20	0.18	27.66	
350.00	0.240	18.00	350.00	-0.20	0.43	-0.41	0.88	0.04	-296.32	
400.00	0.280	82.37	400.00	-0.09	0.58	-0.57	0.56	0.08	128.74	
450.00	0.110	341.52	450.00	-0.02	0.69	-0.68	0.64	-0.34	-201.70	

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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	0.200	257.78	500.00	0.00	0.59	-0.59	0.43	0.18	-167.48
550.00	0.250	133.49	550.00	-0.09	0.58	-0.57	0.80	0.10	-248.58
600.00	0.130	106.00	600.00	-0.18	0.72	-0.69	0.29	-0.24	-54.98
650.00	0.100	78.37	650.00	-0.19	0.81	-0.79	0.12	-0.06	-55.26
700.00	0.190	46.93	700.00	-0.12	0.92	-0.90	0.23	0.18	-62.88
730.00	0.170	348.39	730.00	-0.04	0.94	-0.93	0.59	-0.07	-195.13
789.00	0.086	326.76	789.00	0.08	0.90	-0.91	0.16	-0.14	-36.66
9 5/8"									
880.00	0.100	221.90	880.00	0.08	0.81	-0.82	0.16	0.02	-115.23
972.00	0.100	326.90	972.00	0.08	0.71	-0.72	0.17	0.00	114.13
1,064.00	2.500	291.90	1,063.97	0.90	-1.19	1.09	2.63	2.61	-38.04
1,157.00	4.200	280.60	1,156.81	2.28	-6.42	6.14	1.95	1.83	-12.15
1,249.00	5.700	275.30	1,248.46	3.32	-14.28	13.85	1.70	1.63	-5.76
1,341.00	7.100	268.30	1,339.89	3.58	-24.52	24.00	1.74	1.52	-7.61
1,436.00	8.700	264.70	1,433.98	2.74	-37.54	37.03	1.76	1.68	-3.79
1,532.00	10.800	264.70	1,528.59	1.24	-53.73	53.29	2.19	2.19	0.00
1,627.00	13.300	263.70	1,621.49	-0.78	-73.45	73.12	2.64	2.63	-1.05
1,722.00	15.700	261.60	1,713.46	-3.86	-97.03	96.89	2.59	2.53	-2.21
1,818.00	18.100	261.40	1,805.30	-7.99	-124.63	124.77	2.50	2.50	-0.21
1,913.00	20.500	262.10	1,894.96	-12.48	-155.70	156.15	2.54	2.53	0.74
2,008.00	23.600	261.90	1,983.00	-17.45	-191.02	191.79	3.26	3.26	-0.21
2,104.00	25.400	262.70	2,070.35	-22.77	-230.47	231.58	1.91	1.88	0.83
2,199.00	28.000	263.70	2,155.22	-27.81	-272.85	274.26	2.78	2.74	1.05
2,294.00	30.100	263.70	2,238.26	-32.87	-318.70	320.39	2.21	2.21	0.00
2,390.00	30.000	262.20	2,321.36	-38.77	-366.40	368.45	0.79	-0.10	-1.56
2,485.00	29.500	264.00	2,403.84	-44.44	-413.20	415.58	1.08	-0.53	1.89
2,581.00	28.500	264.20	2,487.80	-49.23	-459.49	462.12	1.05	-1.04	0.21
2,676.00	29.100	264.90	2,571.05	-53.57	-505.05	507.88	0.72	0.63	0.74
2,772.00	31.100	263.30	2,654.10	-58.54	-552.93	556.02	2.24	2.08	-1.67
2,867.00	30.300	262.40	2,735.79	-64.57	-601.06	604.51	0.97	-0.84	-0.95
2,962.00	29.500	261.50	2,818.14	-71.20	-647.94	651.84	0.97	-0.84	-0.95
3,058.00	29.400	266.40	2,901.75	-76.17	-694.84	699.01	2.51	-0.10	5.10
3,153.00	29.600	267.30	2,984.43	-78.74	-741.55	745.72	0.51	0.21	0.95
3,248.00	29.800	264.30	3,066.96	-82.19	-788.48	792.75	1.58	0.21	-3.16
3,345.00	29.200	263.10	3,151.38	-87.43	-835.96	840.51	0.87	-0.62	-1.24
3,440.00	29.400	264.00	3,234.23	-92.65	-882.15	887.00	0.51	0.21	0.95
3,535.00	30.300	264.00	3,316.63	-97.59	-929.18	934.29	0.95	0.95	0.00
3,631.00	28.500	263.00	3,400.26	-102.91	-976.00	981.41	1.94	-1.88	-1.04
3,726.00	26.500	261.70	3,484.52	-108.74	-1,019.47	1,025.25	2.20	-2.11	-1.37
3,821.00	24.600	266.40	3,570.24	-113.04	-1,060.19	1,066.20	2.92	-2.00	4.95
3,916.00	22.100	265.70	3,657.45	-115.62	-1,097.75	1,103.82	2.65	-2.63	-0.74
4,012.00	22.000	263.80	3,746.43	-118.92	-1,133.63	1,139.85	0.75	-0.10	-1.98
4,107.00	19.800	264.40	3,835.17	-122.41	-1,167.34	1,173.74	2.33	-2.32	0.63

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4,202.00	17.800	264.10	3,925.10	-125.47	-1,197.80	1,204.35	2.11	-2.11	-0.32	
4,298.00	16.000	262.00	4,016.95	-128.82	-1,225.50	1,232.25	1.98	-1.88	-2.19	
4,393.00	14.200	263.50	4,108.67	-131.96	-1,250.04	1,256.99	1.94	-1.89	1.58	
4,488.00	12.300	262.80	4,201.13	-134.55	-1,271.66	1,278.76	2.01	-2.00	-0.74	
4,584.00	10.600	260.80	4,295.22	-137.24	-1,290.52	1,297.80	1.82	-1.77	-2.08	
4,679.00	8.600	260.10	4,388.89	-139.86	-1,306.15	1,313.62	2.11	-2.11	-0.74	
4,774.00	5.900	261.20	4,483.12	-141.83	-1,317.97	1,325.58	2.85	-2.84	1.16	
4,870.00	3.400	256.40	4,578.79	-143.26	-1,325.62	1,333.33	2.63	-2.60	-5.00	
4,965.00	3.200	282.80	4,673.64	-143.33	-1,330.94	1,338.64	1.60	-0.21	27.79	
5,060.00	2.800	290.60	4,768.51	-141.93	-1,335.70	1,343.22	0.60	-0.42	8.21	
5,155.00	2.500	298.10	4,863.41	-140.13	-1,339.70	1,347.00	0.48	-0.32	7.89	
5,250.00	2.300	296.60	4,958.33	-138.30	-1,343.23	1,350.32	0.22	-0.21	-1.58	
5,346.00	1.800	294.30	5,054.27	-136.82	-1,346.33	1,353.24	0.53	-0.52	-2.40	
5,441.00	1.300	287.90	5,149.23	-135.88	-1,348.71	1,355.51	0.56	-0.53	-6.74	
5,536.00	0.700	261.00	5,244.22	-135.64	-1,350.31	1,357.08	0.79	-0.63	-28.32	
5,632.00	0.700	230.60	5,340.21	-136.10	-1,351.34	1,358.15	0.38	0.00	-31.67	
5,727.00	0.900	222.30	5,435.20	-137.02	-1,352.29	1,359.20	0.24	0.21	-8.74	
5,822.00	1.100	307.60	5,530.19	-137.02	-1,353.52	1,360.41	1.43	0.21	89.79	
5,917.00	0.400	281.80	5,625.18	-136.39	-1,354.57	1,361.39	0.80	-0.74	-27.16	
6,013.00	0.100	215.30	5,721.18	-136.39	-1,354.94	1,361.76	0.39	-0.31	-69.27	
6,108.00	0.400	150.10	5,816.18	-136.75	-1,354.83	1,361.68	0.39	0.32	-68.63	
6,203.00	0.700	136.00	5,911.18	-137.45	-1,354.26	1,361.19	0.34	0.32	-14.84	
6,299.00	0.900	118.20	6,007.17	-138.23	-1,353.18	1,360.21	0.33	0.21	-18.54	
6,394.00	0.800	132.70	6,102.16	-139.03	-1,352.04	1,359.16	0.25	-0.11	15.26	
6,490.00	1.600	134.10	6,198.13	-140.42	-1,350.58	1,357.86	0.83	0.83	1.46	
6,585.00	1.200	152.20	6,293.11	-142.22	-1,349.17	1,356.64	0.62	-0.42	19.05	
6,680.00	0.400	228.40	6,388.10	-143.32	-1,348.95	1,356.54	1.23	-0.84	80.21	
6,776.00	0.400	181.40	6,484.10	-143.88	-1,349.21	1,356.86	0.33	0.00	-48.96	
6,871.00	0.600	130.80	6,579.09	-144.54	-1,348.84	1,356.56	0.49	0.21	-53.26	
6,966.00	0.900	109.10	6,674.08	-145.11	-1,347.76	1,355.55	0.43	0.32	-22.84	
7,062.00	0.900	100.10	6,770.07	-145.48	-1,346.31	1,354.14	0.15	0.00	-9.38	
7,157.00	1.500	66.70	6,865.05	-145.12	-1,344.43	1,352.24	0.94	0.63	-35.16	
7,253.00	2.000	74.50	6,961.01	-144.18	-1,341.66	1,349.39	0.58	0.52	8.13	
7,348.00	1.500	71.70	7,055.96	-143.34	-1,338.88	1,346.54	0.53	-0.53	-2.95	
7,444.00	1.300	71.60	7,151.93	-142.61	-1,336.66	1,344.24	0.21	-0.21	-0.10	
7,539.00	1.400	103.00	7,246.91	-142.53	-1,334.50	1,342.09	0.78	0.11	33.05	
7,591.00	1.100	108.40	7,298.90	-142.83	-1,333.41	1,341.04	0.62	-0.58	10.38	
7,638.00	1.100	108.40	7,345.89	-143.11	-1,332.56	1,340.22	0.00	0.00	0.00	

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Design:	Wellbore #1	Database:	Compass VM

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (ft)	Hole Diameter (ft)
789.00	789.00	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
730.00	730.00	-0.04	0.94	End of Gyros	

Checked By: _____ Approved By: _____ Date: _____