



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

GGU 14-19 Pad

GGU Daley 14B-19-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

23 May, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Daley 14B-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 14B-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 14B-19-691					
Well Position	+N/-S	0.00 ft	Northing:	1,616,239.44 usft	Latitude:	39° 30' 23.66 N
	+E/-W	0.00 ft	Easting:	2,407,793.57 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	277.31	

Survey Program	Date	05/23/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	725.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
880.00	7,644.00	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	0.230	342.77	50.00	0.10	-0.03	0.04	0.46	0.46	0.00	
100.00	0.070	0.64	100.00	0.22	-0.06	0.09	0.33	-0.32	35.74	
150.00	0.270	344.40	150.00	0.37	-0.09	0.14	0.41	0.40	-32.48	
200.00	0.170	51.87	200.00	0.53	-0.06	0.13	0.52	-0.20	134.94	
250.00	0.180	13.51	250.00	0.65	0.01	0.07	0.23	0.02	-76.72	
300.00	0.140	356.31	300.00	0.79	0.03	0.07	0.12	-0.08	-34.40	
350.00	0.030	354.03	350.00	0.86	0.02	0.09	0.22	-0.22	-4.56	
400.00	0.170	332.00	400.00	0.94	-0.01	0.13	0.29	0.28	-44.06	
450.00	0.330	222.17	450.00	0.90	-0.15	0.26	0.84	0.32	-219.66	

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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)
500.00	0.070	248.07	500.00	0.78	-0.27	0.37	0.54	-0.52	51.80
550.00	0.330	136.09	550.00	0.66	-0.20	0.28	0.72	0.52	-223.96
600.00	0.120	132.71	600.00	0.52	-0.06	0.13	0.42	-0.42	-6.76
650.00	0.200	72.68	650.00	0.51	0.06	0.00	0.35	0.16	-120.06
700.00	0.140	47.89	700.00	0.58	0.19	-0.11	0.19	-0.12	-49.58
725.00	0.080	47.18	725.00	0.61	0.23	-0.15	0.24	-0.24	-2.84
795.00	0.052	102.44	795.00	0.64	0.29	-0.21	0.09	-0.04	78.94
9 5/8"									
880.00	0.100	155.40	880.00	0.56	0.36	-0.29	0.09	0.06	62.31
972.00	0.400	14.00	972.00	0.80	0.47	-0.37	0.52	0.33	-153.70
1,065.00	2.200	296.70	1,064.97	1.92	-1.04	1.28	2.31	1.94	-83.12
1,157.00	3.900	271.80	1,156.84	2.81	-5.75	6.06	2.30	1.85	-27.07
1,249.00	5.900	284.00	1,248.50	4.05	-13.47	13.87	2.44	2.17	13.26
1,341.00	8.500	284.00	1,339.77	6.84	-24.65	25.32	2.83	2.83	0.00
1,436.00	10.400	275.70	1,433.48	9.39	-40.00	40.87	2.46	2.00	-8.74
1,532.00	12.700	274.70	1,527.53	11.12	-59.14	60.08	2.40	2.40	-1.04
1,627.00	15.300	273.90	1,619.70	12.83	-82.06	83.02	2.74	2.74	-0.84
1,722.00	17.100	276.90	1,710.93	15.36	-108.43	109.50	2.09	1.89	3.16
1,818.00	20.300	273.80	1,801.85	18.16	-139.07	140.25	3.49	3.33	-3.23
1,913.00	22.800	274.70	1,890.20	20.76	-173.86	175.09	2.65	2.63	0.95
2,008.00	25.800	276.50	1,976.78	24.61	-212.76	214.16	3.25	3.16	1.89
2,104.00	27.900	278.20	2,062.42	30.18	-255.75	257.51	2.33	2.19	1.77
2,199.00	29.700	279.20	2,145.67	37.11	-300.99	303.26	1.96	1.89	1.05
2,294.00	30.200	278.00	2,227.98	44.20	-347.88	350.67	0.82	0.53	-1.26
2,390.00	29.600	276.80	2,311.21	50.37	-395.33	398.53	0.88	-0.63	-1.25
2,485.00	29.700	278.60	2,393.77	56.66	-441.90	445.52	0.94	0.11	1.89
2,581.00	29.100	278.00	2,477.41	63.47	-488.53	492.64	0.70	-0.63	-0.63
2,676.00	28.700	276.00	2,560.58	69.07	-534.09	538.54	1.10	-0.42	-2.11
2,771.00	29.200	278.20	2,643.71	74.76	-579.72	584.52	1.24	0.53	2.32
2,867.00	28.800	278.10	2,727.67	81.36	-625.79	631.06	0.42	-0.42	-0.10
2,962.00	28.900	277.70	2,810.88	87.66	-671.19	676.89	0.23	0.11	-0.42
3,057.00	28.800	278.20	2,894.09	94.00	-716.59	722.73	0.27	-0.11	0.53
3,153.00	27.200	277.50	2,978.85	100.16	-761.24	767.79	1.70	-1.67	-0.73
3,248.00	28.300	277.70	3,062.92	106.01	-805.08	812.03	1.16	1.16	0.21
3,343.00	28.800	275.80	3,230.70	116.73	-895.72	903.29	0.54	0.26	-0.99
3,534.00	29.600	272.40	3,313.63	120.02	-941.93	949.55	1.94	0.84	-3.58
3,630.00	28.300	275.80	3,397.64	123.31	-988.27	995.92	2.18	-1.35	3.54
3,725.00	27.600	276.30	3,481.56	128.01	-1,032.54	1,040.44	0.78	-0.74	0.53
3,820.00	25.500	277.90	3,566.54	133.23	-1,074.68	1,082.90	2.34	-2.21	1.68
3,916.00	22.400	276.10	3,654.26	138.02	-1,113.35	1,121.86	3.32	-3.23	-1.88
4,011.00	21.400	276.10	3,742.41	141.78	-1,148.58	1,157.28	1.05	-1.05	0.00
4,106.00	18.900	278.10	3,831.58	145.79	-1,181.05	1,190.00	2.73	-2.63	2.11
4,201.00	16.300	278.00	3,922.13	149.82	-1,209.49	1,218.72	2.74	-2.74	-0.11

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4,297.00	14.200	275.10	4,014.75	152.74	-1,234.56	1,243.96	2.33	-2.19	-3.02	
4,392.00	13.400	279.10	4,107.00	155.52	-1,257.04	1,266.61	1.31	-0.84	4.21	
4,487.00	12.300	280.90	4,199.62	159.17	-1,277.84	1,287.71	1.23	-1.16	1.89	
4,583.00	9.400	277.20	4,293.90	162.09	-1,295.67	1,305.76	3.11	-3.02	-3.85	
4,678.00	8.200	282.40	4,387.78	164.51	-1,309.98	1,320.27	1.51	-1.26	5.47	
4,774.00	7.000	286.50	4,482.94	167.65	-1,322.28	1,332.86	1.37	-1.25	4.27	
4,869.00	4.400	286.50	4,577.46	170.33	-1,331.32	1,342.17	2.74	-2.74	0.00	
4,965.00	3.300	302.90	4,673.24	172.87	-1,337.17	1,348.30	1.61	-1.15	17.08	
5,060.00	2.700	298.50	4,768.11	175.43	-1,341.44	1,352.85	0.68	-0.63	-4.63	
5,155.00	1.600	282.80	4,863.05	176.79	-1,344.70	1,356.26	1.30	-1.16	-16.53	
5,251.00	2.700	299.60	4,958.98	178.20	-1,347.97	1,359.69	1.31	1.15	17.50	
5,346.00	2.000	299.20	5,053.90	180.11	-1,351.36	1,363.30	0.74	-0.74	-0.42	
5,441.00	1.500	287.90	5,148.85	181.31	-1,353.99	1,366.06	0.64	-0.53	-11.89	
5,537.00	0.600	276.60	5,244.84	181.75	-1,355.69	1,367.79	0.96	-0.94	-11.77	
5,632.00	0.900	290.60	5,339.83	182.07	-1,356.88	1,369.02	0.37	0.32	14.74	
5,728.00	0.500	277.40	5,435.82	182.39	-1,358.00	1,370.17	0.45	-0.42	-13.75	
5,822.00	0.200	323.80	5,529.82	182.57	-1,358.50	1,370.69	0.41	-0.32	49.36	
5,918.00	0.200	298.50	5,625.82	182.79	-1,358.75	1,370.97	0.09	0.00	-26.35	
6,013.00	0.100	97.50	5,720.82	182.86	-1,358.81	1,371.04	0.31	-0.11	167.37	
6,109.00	0.200	133.50	5,816.82	182.73	-1,358.61	1,370.82	0.14	0.10	37.50	
6,204.00	0.200	159.90	5,911.82	182.46	-1,358.43	1,370.61	0.10	0.00	27.79	
6,299.00	1.000	159.90	6,006.81	181.53	-1,358.09	1,370.15	0.84	0.84	0.00	
6,395.00	2.000	135.20	6,102.78	179.55	-1,356.62	1,368.44	1.22	1.04	-25.73	
6,490.00	1.000	112.00	6,197.74	178.06	-1,354.69	1,366.33	1.21	-1.05	-24.42	
6,585.00	1.200	109.40	6,292.73	177.42	-1,352.98	1,364.56	0.22	0.21	-2.74	
6,681.00	1.000	116.20	6,388.71	176.72	-1,351.28	1,362.78	0.25	-0.21	7.08	
6,776.00	0.600	147.30	6,483.70	175.94	-1,350.27	1,361.68	0.61	-0.42	32.74	
6,871.00	0.700	136.00	6,578.69	175.10	-1,349.59	1,360.90	0.17	0.11	-11.89	
6,967.00	1.000	133.80	6,674.68	174.10	-1,348.58	1,359.77	0.31	0.31	-2.29	
7,062.00	1.800	122.30	6,769.65	172.73	-1,346.72	1,357.75	0.89	0.84	-12.11	
7,158.00	0.300	11.10	6,865.64	172.17	-1,345.40	1,356.37	2.01	-1.56	-115.83	
7,253.00	0.300	226.50	6,960.64	172.24	-1,345.53	1,356.51	0.60	0.00	-152.21	
7,349.00	0.200	176.90	7,056.64	171.90	-1,345.71	1,356.64	0.24	-0.10	-51.67	
7,444.00	0.600	149.00	7,151.64	171.31	-1,345.44	1,356.30	0.46	0.42	-29.37	
7,539.00	1.000	136.90	7,246.63	170.28	-1,344.62	1,355.36	0.45	0.42	-12.74	
7,597.00	1.400	126.90	7,304.61	169.48	-1,343.71	1,354.35	0.78	0.69	-17.24	
7,644.00	1.400	126.90	7,351.60	168.79	-1,342.79	1,353.35	0.00	0.00	0.00	

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Well:	GGU Daley 14B-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)
795.00	795.00	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
725.00	725.00	0.61	0.23	End of Gyros	

Checked By: _____ Approved By: _____ Date: _____