



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

GGU 14-19 Pad

GGU Daley 31A-30-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

14 April, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Daley 31A-30-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5846.00ft
Site:	GGU 14-19 Pad	MD Reference:	KB @ 5846.00ft
Well:	GGU Daley 31A-30-691	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 31A-30-691					
Well Position	+N/-S	0.00 ft	Northing:	1,616,175.44 usft	Latitude:	39° 30' 23.03 N
	+E/-W	0.00 ft	Easting:	2,407,803.95 usft	Longitude:	107° 35' 56.37 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	137.30	

Survey Program	Date	04/14/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	780.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
879.00	7,775.00	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	0.180	358.65	50.00	0.08	0.00	-0.06	0.36	0.36	0.00	
100.00	0.400	8.14	100.00	0.33	0.02	-0.23	0.45	0.44	18.98	
150.00	0.260	289.48	150.00	0.54	-0.06	-0.44	0.86	-0.28	-157.32	
200.00	0.160	268.52	200.00	0.58	-0.24	-0.59	0.25	-0.20	-41.92	
250.00	0.320	319.19	250.00	0.68	-0.40	-0.77	0.50	0.32	101.34	
300.00	0.220	194.92	300.00	0.69	-0.51	-0.86	0.96	-0.20	-248.54	
350.00	0.340	192.93	350.00	0.46	-0.57	-0.72	0.24	0.24	-3.98	
400.00	0.030	27.08	400.00	0.32	-0.60	-0.64	0.74	-0.62	-331.70	
450.00	0.290	63.42	450.00	0.39	-0.48	-0.61	0.53	0.52	72.68	

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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	0.140	317.42	500.00	0.49	-0.41	-0.64	0.71	-0.30	-212.00
550.00	0.280	323.87	550.00	0.64	-0.52	-0.82	0.28	0.28	12.90
600.00	0.220	233.74	600.00	0.68	-0.67	-0.95	0.71	-0.12	-180.26
650.00	0.180	196.37	650.00	0.55	-0.77	-0.92	0.27	-0.08	-74.74
700.00	0.340	197.66	699.99	0.33	-0.84	-0.81	0.32	0.32	2.58
750.00	0.330	176.97	749.99	0.04	-0.88	-0.63	0.24	-0.02	-41.38
780.00	0.200	96.96	779.99	-0.05	-0.82	-0.52	1.18	-0.43	-266.70
828.00	0.108	183.88	827.99	-0.10	-0.74	-0.43	0.46	-0.19	181.09
9 5/8"									
879.00	0.300	228.90	878.99	-0.24	-0.84	-0.40	0.46	0.38	88.27
972.00	2.800	125.10	971.96	-1.71	0.83	1.82	3.10	2.69	-111.61
1,064.00	6.900	131.40	1,063.61	-6.65	6.82	9.51	4.49	4.46	6.85
1,156.00	11.100	138.70	1,154.46	-16.97	16.81	23.87	4.72	4.57	7.93
1,248.00	15.600	140.80	1,243.95	-33.22	30.48	45.08	4.92	4.89	2.28
1,344.00	20.600	141.00	1,335.17	-56.36	49.28	74.84	5.21	5.21	0.21
1,439.00	25.300	138.90	1,422.63	-84.66	73.16	111.83	5.02	4.95	-2.21
1,534.00	30.000	138.10	1,506.76	-117.65	102.38	155.89	4.96	4.95	-0.84
1,630.00	34.600	135.70	1,587.88	-155.04	137.46	207.17	4.97	4.79	-2.50
1,725.00	38.100	134.90	1,664.38	-195.05	177.08	263.43	3.72	3.68	-0.84
1,820.00	38.700	135.50	1,738.84	-236.92	218.65	322.40	0.74	0.63	0.63
1,916.00	38.500	135.90	1,813.86	-279.79	260.48	382.27	0.33	-0.21	0.42
2,011.00	38.200	136.70	1,888.36	-322.40	301.21	441.20	0.61	-0.32	0.84
2,106.00	37.400	136.90	1,963.43	-364.84	341.07	499.43	0.85	-0.84	0.21
2,202.00	39.000	136.70	2,038.87	-408.12	381.71	558.79	1.67	1.67	-0.21
2,297.00	38.100	137.10	2,113.16	-451.34	422.16	617.99	0.98	-0.95	0.42
2,392.00	39.600	136.70	2,187.15	-494.85	462.88	677.58	1.60	1.58	-0.42
2,488.00	38.400	137.20	2,261.75	-539.00	504.12	737.99	1.29	-1.25	0.52
2,583.00	38.800	136.70	2,336.00	-582.31	544.58	797.26	0.53	0.42	-0.53
2,679.00	39.500	138.90	2,410.45	-627.21	585.28	857.86	1.62	0.73	2.29
2,774.00	39.600	137.00	2,483.70	-672.12	625.79	918.34	1.28	0.11	-2.00
2,870.00	39.600	137.50	2,557.67	-717.05	667.33	979.53	0.33	0.00	0.52
2,965.00	38.500	136.00	2,631.45	-760.65	708.33	1,039.37	1.53	-1.16	-1.58
3,061.00	38.400	135.80	2,706.63	-803.52	749.87	1,099.05	0.17	-0.10	-0.21
3,156.00	39.400	135.70	2,780.56	-846.25	791.50	1,158.68	1.05	1.05	-0.11
3,251.00	39.100	136.10	2,854.13	-889.41	833.33	1,218.77	0.41	-0.32	0.42
3,347.00	37.600	135.00	2,929.42	-931.94	875.03	1,278.31	1.72	-1.56	-1.15
3,442.00	36.500	135.80	3,005.23	-972.69	915.22	1,335.51	1.26	-1.16	0.84
3,538.00	35.300	136.10	3,083.00	-1,013.15	954.36	1,391.79	1.26	-1.25	0.31
3,633.00	33.500	134.00	3,161.38	-1,051.14	992.26	1,445.41	2.27	-1.89	-2.21
3,729.00	31.300	135.40	3,242.43	-1,087.30	1,028.83	1,496.79	2.42	-2.29	1.46
3,824.00	29.900	136.50	3,324.20	-1,122.05	1,062.46	1,545.13	1.59	-1.47	1.16
3,919.00	28.800	136.30	3,407.01	-1,155.77	1,094.57	1,591.69	1.16	-1.16	-0.21
4,015.00	27.400	136.20	3,491.69	-1,188.44	1,125.84	1,636.90	1.46	-1.46	-0.10

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4,110.00	25.300	137.70	3,576.82	-1,219.23	1,154.63	1,679.06	2.32	-2.21	1.58	
4,205.00	24.000	138.40	3,663.16	-1,248.69	1,181.12	1,718.67	1.40	-1.37	0.74	
4,300.00	20.500	138.50	3,751.07	-1,275.61	1,204.98	1,754.63	3.68	-3.68	0.11	
4,395.00	18.200	139.50	3,840.70	-1,299.35	1,225.64	1,786.09	2.45	-2.42	1.05	
4,491.00	14.900	139.10	3,932.71	-1,320.09	1,243.46	1,813.42	3.44	-3.44	-0.42	
4,586.00	12.600	137.70	4,024.98	-1,336.98	1,258.43	1,835.99	2.45	-2.42	-1.47	
4,682.00	10.300	140.50	4,119.06	-1,351.35	1,270.94	1,855.03	2.46	-2.40	2.92	
4,777.00	8.300	143.40	4,212.81	-1,363.41	1,280.43	1,870.33	2.16	-2.11	3.05	
4,872.00	6.600	146.80	4,307.01	-1,373.49	1,287.51	1,882.53	1.85	-1.79	3.58	
4,968.00	3.100	164.10	4,402.65	-1,380.60	1,291.25	1,890.30	3.91	-3.65	18.02	
5,063.00	1.800	154.20	4,497.56	-1,384.42	1,292.60	1,894.02	1.43	-1.37	-10.42	
5,159.00	1.100	147.60	4,593.53	-1,386.55	1,293.75	1,896.37	0.75	-0.73	-6.88	
5,254.00	1.300	128.60	4,688.51	-1,387.99	1,295.08	1,898.33	0.47	0.21	-20.00	
5,350.00	1.000	180.60	4,784.49	-1,389.51	1,295.92	1,900.01	1.09	-0.31	54.17	
5,445.00	1.800	178.90	4,879.46	-1,391.83	1,295.94	1,901.73	0.84	0.84	-1.79	
5,539.00	0.900	297.00	4,973.45	-1,392.97	1,295.31	1,902.15	2.51	-0.96	125.64	
5,634.00	0.000	223.10	5,068.45	-1,392.63	1,294.65	1,901.45	0.95	-0.95	0.00	
5,730.00	0.700	353.50	5,164.44	-1,392.05	1,294.58	1,900.97	0.73	0.73	0.00	
5,825.00	0.700	355.20	5,259.44	-1,390.90	1,294.47	1,900.05	0.02	0.00	1.79	
5,920.00	1.100	346.80	5,354.42	-1,389.43	1,294.21	1,898.79	0.44	0.42	-8.84	
6,016.00	1.000	17.70	5,450.41	-1,387.74	1,294.25	1,897.58	0.59	-0.10	32.19	
6,111.00	0.500	21.60	5,545.40	-1,386.56	1,294.66	1,896.99	0.53	-0.53	4.11	
6,207.00	1.700	298.50	5,641.38	-1,385.49	1,293.56	1,895.46	1.78	1.25	-86.56	
6,302.00	1.200	279.00	5,736.35	-1,384.66	1,291.34	1,893.34	0.73	-0.53	-20.53	
6,397.00	0.400	278.90	5,831.34	-1,384.46	1,290.03	1,892.30	0.84	-0.84	-0.11	
6,492.00	1.000	271.40	5,926.34	-1,384.39	1,288.87	1,891.47	0.64	0.63	-7.89	
6,588.00	0.200	283.50	6,022.33	-1,384.33	1,287.87	1,890.75	0.84	-0.83	12.60	
6,683.00	0.100	210.40	6,117.33	-1,384.36	1,287.67	1,890.63	0.21	-0.11	-76.95	
6,778.00	0.400	44.30	6,212.33	-1,384.19	1,287.86	1,890.64	0.52	0.32	-174.84	
6,874.00	0.400	137.90	6,308.33	-1,384.20	1,288.32	1,890.96	0.61	0.00	97.50	
6,969.00	0.000	312.90	6,403.33	-1,384.45	1,288.54	1,891.29	0.42	-0.42	0.00	
7,065.00	0.400	104.80	6,499.33	-1,384.53	1,288.87	1,891.57	0.42	0.42	0.00	
7,161.00	0.600	131.20	6,595.32	-1,384.95	1,289.57	1,892.35	0.31	0.21	27.50	
7,256.00	0.600	143.30	6,690.32	-1,385.68	1,290.24	1,893.34	0.13	0.00	12.74	
7,351.00	0.900	149.80	6,785.31	-1,386.72	1,290.91	1,894.56	0.33	0.32	6.84	
7,446.00	1.200	152.70	6,880.29	-1,388.25	1,291.74	1,896.25	0.32	0.32	3.05	
7,540.00	1.400	152.70	6,974.27	-1,390.14	1,292.72	1,898.31	0.21	0.21	0.00	
7,636.00	1.700	153.50	7,070.23	-1,392.46	1,293.89	1,900.81	0.31	0.31	0.83	
7,728.00	1.800	145.60	7,162.19	-1,394.87	1,295.32	1,903.55	0.28	0.11	-8.59	
7,775.00	1.800	145.60	7,209.17	-1,396.09	1,296.15	1,905.01	0.00	0.00	0.00	

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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)
828.00	827.99	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
780.00	779.99	-0.05	-0.82	End of Gyros	

Checked By: _____ Approved By: _____ Date: _____