



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

GGU 14-19 Pad

GGU Daley 34A-19-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

11 May, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Daley 34A-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 34A-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 34A-19-691					
Well Position	+N/-S	0.00 ft	Northing:	1,616,223.89 usft	Latitude:	39° 30' 23.51 N
	+E/-W	0.00 ft	Easting:	2,407,803.94 usft	Longitude:	107° 35' 56.38 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	92.94	

Survey Program	Date	05/11/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	750.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
882.00	7,520.00	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	0.460	229.01	50.00	-0.13	-0.15	-0.14	0.92	0.92	0.00	
100.00	0.480	194.98	100.00	-0.47	-0.36	-0.33	0.55	0.04	-68.06	
150.00	0.340	163.74	150.00	-0.81	-0.37	-0.33	0.52	-0.28	-62.48	
200.00	0.240	320.09	200.00	-0.87	-0.40	-0.35	1.14	-0.20	312.70	
250.00	0.180	300.95	250.00	-0.75	-0.53	-0.49	0.18	-0.12	-38.28	
300.00	0.220	290.38	300.00	-0.68	-0.69	-0.65	0.11	0.08	-21.14	
350.00	0.300	332.21	350.00	-0.53	-0.84	-0.81	0.40	0.16	83.66	
400.00	0.220	267.50	399.99	-0.42	-1.00	-0.97	0.57	-0.16	-129.42	
450.00	0.310	262.29	449.99	-0.44	-1.23	-1.20	0.19	0.18	-10.42	

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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)
500.00	0.260	47.76	499.99	-0.38	-1.28	-1.25	1.09	-0.10	290.94
550.00	0.160	66.09	549.99	-0.28	-1.13	-1.11	0.24	-0.20	36.66
600.00	0.180	109.20	599.99	-0.27	-0.99	-0.97	0.25	0.04	86.22
650.00	0.260	126.61	649.99	-0.37	-0.82	-0.80	0.21	0.16	34.82
700.00	0.260	115.44	699.99	-0.48	-0.63	-0.60	0.10	0.00	-22.34
750.00	0.300	122.40	749.99	-0.60	-0.42	-0.39	0.10	0.08	13.92
795.00	0.163	177.83	794.99	-0.73	-0.32	-0.28	0.55	-0.31	123.17
9 5/8"									
882.00	0.500	250.60	881.99	-0.98	-0.67	-0.62	0.55	0.39	83.65
974.00	0.800	257.90	973.98	-1.25	-1.68	-1.61	0.34	0.33	7.93
1,066.00	1.500	73.70	1,065.98	-1.04	-1.15	-1.09	2.50	0.76	191.09
1,158.00	3.600	107.70	1,157.88	-1.58	2.76	2.84	2.72	2.28	36.96
1,251.00	6.400	96.30	1,250.52	-3.04	10.70	10.84	3.18	3.01	-12.26
1,343.00	8.700	99.30	1,341.72	-4.73	22.66	22.87	2.54	2.50	3.26
1,435.00	12.100	94.90	1,432.20	-6.68	39.14	39.43	3.79	3.70	-4.78
1,530.00	14.600	95.50	1,524.62	-8.68	60.98	61.35	2.64	2.63	0.63
1,626.00	17.200	91.00	1,616.95	-10.08	87.22	87.62	3.00	2.71	-4.69
1,721.00	20.000	91.80	1,706.97	-10.84	117.51	117.91	2.96	2.95	0.84
1,816.00	23.300	94.90	1,795.26	-12.95	152.48	152.94	3.68	3.47	3.26
1,912.00	25.900	95.30	1,882.54	-16.51	192.28	192.87	2.71	2.71	0.42
2,007.00	28.800	95.30	1,966.91	-20.54	235.73	236.48	3.05	3.05	0.00
2,102.00	29.400	93.50	2,049.92	-24.08	281.79	282.66	1.12	0.63	-1.89
2,198.00	30.000	90.50	2,133.32	-25.73	329.32	330.20	1.67	0.63	-3.13
2,293.00	30.000	90.50	2,215.59	-26.14	376.81	377.66	0.00	0.00	0.00
2,388.00	29.700	90.30	2,297.99	-26.48	424.10	424.90	0.33	-0.32	-0.21
2,484.00	29.400	89.70	2,381.50	-26.48	471.44	472.18	0.44	-0.31	-0.63
2,579.00	28.800	94.40	2,464.52	-28.11	517.58	518.34	2.49	-0.63	4.95
2,675.00	30.000	94.50	2,548.15	-31.77	564.57	565.45	1.25	1.25	0.10
2,770.00	30.900	92.70	2,630.05	-34.78	612.61	613.59	1.35	0.95	-1.89
2,866.00	30.800	92.60	2,712.47	-37.06	661.79	662.82	0.12	-0.10	-0.10
2,961.00	30.800	93.00	2,794.07	-39.43	710.37	711.46	0.22	0.00	0.42
3,056.00	30.500	91.90	2,875.80	-41.50	758.76	759.89	0.67	-0.32	-1.16
3,152.00	29.600	91.50	2,958.89	-42.93	806.81	807.95	0.96	-0.94	-0.42
3,247.00	28.600	90.70	3,041.90	-43.82	853.00	854.12	1.13	-1.05	-0.84
3,342.00	28.400	90.10	3,125.39	-44.14	898.33	899.41	0.37	-0.21	-0.63
3,438.00	26.500	93.30	3,210.58	-45.42	942.55	943.63	2.51	-1.98	3.33
3,533.00	23.600	92.90	3,296.64	-47.60	982.71	983.85	3.06	-3.05	-0.42
3,629.00	21.500	91.20	3,385.29	-48.94	1,019.49	1,020.66	2.29	-2.19	-1.77
3,724.00	20.200	89.90	3,474.07	-49.27	1,053.30	1,054.44	1.45	-1.37	-1.37
3,819.00	18.300	90.90	3,563.75	-49.48	1,084.62	1,085.73	2.03	-2.00	1.05
3,915.00	17.600	96.80	3,655.09	-51.44	1,114.10	1,115.27	2.03	-0.73	6.15
4,010.00	15.700	97.80	3,746.10	-54.88	1,141.10	1,142.41	2.02	-2.00	1.05
4,106.00	14.900	96.70	3,838.70	-58.08	1,166.23	1,167.67	0.89	-0.83	-1.15

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4,201.00	13.100	90.00	3,930.88	-59.51	1,189.13	1,190.61	2.55	-1.89	-7.05	
4,297.00	10.900	89.40	4,024.78	-59.41	1,209.08	1,210.54	2.30	-2.29	-0.63	
4,392.00	9.500	89.40	4,118.27	-59.24	1,225.91	1,227.33	1.47	-1.47	0.00	
4,487.00	7.600	89.00	4,212.21	-59.05	1,240.03	1,241.42	2.00	-2.00	-0.42	
4,582.00	5.700	86.70	4,306.57	-58.66	1,251.02	1,252.38	2.02	-2.00	-2.42	
4,677.00	4.200	80.20	4,401.21	-57.80	1,259.16	1,260.47	1.68	-1.58	-6.84	
4,773.00	3.300	68.90	4,497.01	-56.21	1,265.20	1,266.42	1.21	-0.94	-11.77	
4,868.00	2.100	18.00	4,591.91	-53.57	1,268.29	1,269.37	2.70	-1.26	-53.58	
4,964.00	2.600	356.40	4,687.83	-49.72	1,268.70	1,269.58	1.05	0.52	-22.50	
5,059.00	1.100	309.80	4,782.79	-46.99	1,267.86	1,268.60	2.12	-1.58	-49.05	
5,154.00	0.700	326.20	4,877.77	-45.92	1,266.84	1,267.52	0.50	-0.42	17.26	
5,250.00	0.600	287.70	4,973.77	-45.28	1,266.03	1,266.69	0.46	-0.10	-40.10	
5,345.00	0.700	146.10	5,068.77	-45.61	1,265.88	1,266.55	1.29	0.11	-149.05	
5,440.00	1.200	152.90	5,163.75	-46.98	1,266.66	1,267.40	0.54	0.53	7.16	
5,536.00	0.800	153.80	5,259.74	-48.47	1,267.41	1,268.23	0.42	-0.42	0.94	
5,631.00	1.400	148.00	5,354.72	-50.05	1,268.32	1,269.22	0.64	0.63	-6.11	
5,727.00	1.400	120.50	5,450.69	-51.64	1,269.95	1,270.93	0.69	0.00	-28.65	
5,822.00	2.300	115.20	5,545.64	-53.04	1,272.68	1,273.72	0.96	0.95	-5.58	
5,919.00	2.000	115.60	5,642.57	-54.60	1,275.96	1,277.09	0.31	-0.31	0.41	
6,014.00	1.000	127.50	5,737.54	-55.83	1,278.12	1,279.30	1.10	-1.05	12.53	
6,109.00	0.600	145.00	5,832.53	-56.74	1,279.06	1,280.29	0.49	-0.42	18.42	
6,205.00	1.200	222.10	5,928.52	-57.90	1,278.67	1,279.96	1.27	0.63	80.31	
6,300.00	1.400	290.40	6,023.50	-58.23	1,276.92	1,278.23	1.55	0.21	71.89	
6,395.00	1.600	283.50	6,118.47	-57.51	1,274.54	1,275.81	0.28	0.21	-7.26	
6,491.00	0.600	281.80	6,214.45	-57.10	1,272.75	1,274.00	1.04	-1.04	-1.77	
6,586.00	1.900	288.00	6,309.42	-56.51	1,270.76	1,271.99	1.37	1.37	6.53	
6,682.00	1.000	287.70	6,405.39	-55.76	1,268.45	1,269.64	0.94	-0.94	-0.31	
6,777.00	1.000	269.60	6,500.38	-55.52	1,266.83	1,268.01	0.33	0.00	-19.05	
6,872.00	0.400	246.40	6,595.37	-55.66	1,265.70	1,266.89	0.69	-0.63	-24.42	
6,968.00	0.900	194.70	6,691.37	-56.52	1,265.20	1,266.43	0.75	0.52	-53.85	
7,063.00	1.200	183.00	6,786.35	-58.24	1,264.96	1,266.28	0.39	0.32	-12.32	
7,159.00	1.400	186.50	6,882.33	-60.40	1,264.77	1,266.21	0.22	0.21	3.65	
7,254.00	1.400	167.80	6,977.30	-62.69	1,264.89	1,266.44	0.48	0.00	-19.68	
7,349.00	1.500	151.40	7,072.27	-64.92	1,265.73	1,267.39	0.45	0.11	-17.26	
7,444.00	1.000	153.40	7,167.24	-66.75	1,266.69	1,268.45	0.53	-0.53	2.11	
7,473.00	1.400	130.10	7,196.24	-67.21	1,267.08	1,268.86	2.15	1.38	-80.34	
7,520.00	1.400	130.10	7,243.22	-67.94	1,267.96	1,269.77	0.00	0.00	0.00	

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Well:	GGU Daley 34A-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	794.99	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
750.00	749.99	-0.60	-0.42	End of Gyros	

Checked By: _____ Approved By: _____ Date: _____