



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

GGU 14-19 Pad

GGU Daley 31D-30-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

05 May, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Daley 31D-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 31D-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 31D-30-691					
Well Position	+N/-S	0.00 ft	Northing:	1,616,207.87 usft	Latitude:	39° 30' 23.35 N
	+E/-W	0.00 ft	Easting:	2,407,803.85 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	108.44	

Survey Program	Date	05/05/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	740.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
885.00	7,560.00	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	0.290	144.29	50.00	-0.10	0.07	0.10	0.58	0.58	0.00	
100.00	0.260	290.40	100.00	-0.17	0.04	0.09	1.05	-0.06	292.22	
150.00	0.120	321.76	150.00	-0.09	-0.10	-0.07	0.34	-0.28	62.72	
200.00	0.160	339.26	200.00	0.02	-0.15	-0.15	0.12	0.08	35.00	
250.00	0.200	1.32	250.00	0.17	-0.18	-0.22	0.16	0.08	44.12	
300.00	0.160	331.24	300.00	0.32	-0.21	-0.30	0.20	-0.08	-60.16	
350.00	0.300	108.69	350.00	0.34	-0.12	-0.22	0.86	0.28	274.90	
400.00	0.330	10.35	400.00	0.44	0.03	-0.11	0.95	0.06	-196.68	
450.00	0.240	281.04	450.00	0.60	-0.05	-0.23	0.81	-0.18	-178.62	

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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	0.190	196.73	500.00	0.54	-0.17	-0.34	0.58	-0.10	-168.62
550.00	0.070	119.90	550.00	0.45	-0.17	-0.30	0.37	-0.24	-153.66
600.00	0.200	142.56	600.00	0.36	-0.09	-0.20	0.28	0.26	45.32
650.00	0.110	80.26	650.00	0.30	0.01	-0.09	0.36	-0.18	-124.60
700.00	0.360	138.16	700.00	0.19	0.16	0.09	0.63	0.50	115.80
740.00	0.380	133.34	740.00	0.01	0.34	0.32	0.09	0.05	-12.05
793.00	0.241	133.34	792.99	-0.19	0.55	0.58	0.26	-0.26	0.00
9 5/8"									
885.00	0.000	5.60	884.99	-0.32	0.69	0.76	0.26	-0.26	0.00
974.00	3.200	113.00	973.95	-1.29	2.98	3.24	3.60	3.60	0.00
1,066.00	6.500	117.60	1,065.61	-4.71	9.96	10.94	3.61	3.59	5.00
1,158.00	9.400	110.90	1,156.71	-9.80	21.60	23.59	3.30	3.15	-7.28
1,251.00	12.600	109.20	1,247.99	-15.85	38.28	41.32	3.46	3.44	-1.83
1,343.00	16.300	109.30	1,337.07	-23.42	59.94	64.27	4.02	4.02	0.11
1,435.00	19.600	107.20	1,424.58	-32.25	86.88	92.62	3.65	3.59	-2.28
1,530.00	22.500	107.80	1,513.23	-42.52	119.41	126.73	3.06	3.05	0.63
1,626.00	25.500	106.20	1,600.92	-53.91	156.76	165.76	3.20	3.13	-1.67
1,721.00	25.900	108.40	1,686.53	-66.16	196.08	206.94	1.09	0.42	2.32
1,816.00	27.200	106.20	1,771.51	-78.77	236.62	249.39	1.72	1.37	-2.32
1,912.00	27.000	106.20	1,856.97	-90.97	278.62	293.09	0.21	-0.21	0.00
2,007.00	28.900	106.90	1,940.88	-103.66	321.29	337.59	2.03	2.00	0.74
2,102.00	28.700	107.50	2,024.13	-117.19	365.01	383.34	0.37	-0.21	0.63
2,198.00	29.000	107.20	2,108.22	-131.00	409.23	429.65	0.35	0.31	-0.31
2,293.00	29.200	106.90	2,191.23	-144.55	453.40	475.84	0.26	0.21	-0.32
2,388.00	29.700	106.60	2,273.95	-158.01	498.13	522.53	0.55	0.53	-0.32
2,484.00	28.700	108.40	2,357.75	-172.08	542.79	569.35	1.39	-1.04	1.88
2,579.00	28.500	108.50	2,441.16	-186.47	585.93	614.83	0.22	-0.21	0.11
2,675.00	28.700	108.60	2,525.45	-201.09	629.50	660.78	0.21	0.21	0.10
2,770.00	29.300	108.40	2,608.53	-215.71	673.17	706.84	0.64	0.63	-0.21
2,866.00	29.500	108.60	2,692.17	-230.66	717.86	753.97	0.23	0.21	0.21
2,961.00	29.900	108.30	2,774.69	-245.56	762.51	801.03	0.45	0.42	-0.32
3,056.00	28.900	110.30	2,857.46	-260.96	806.53	847.66	1.48	-1.05	2.11
3,152.00	27.500	109.50	2,942.06	-276.40	849.18	893.01	1.51	-1.46	-0.83
3,247.00	27.200	110.40	3,026.44	-291.29	890.20	936.64	0.54	-0.32	0.95
3,342.00	26.900	108.50	3,111.05	-305.68	930.93	979.83	0.96	-0.32	-2.00
3,438.00	25.400	109.80	3,197.22	-319.55	970.90	1,022.13	1.67	-1.56	1.35
3,533.00	23.400	111.30	3,283.73	-333.30	1,007.65	1,061.34	2.20	-2.11	1.58
3,629.00	21.400	109.40	3,372.49	-346.05	1,041.94	1,097.90	2.22	-2.08	-1.98
3,724.00	21.300	108.00	3,460.97	-357.13	1,074.70	1,132.48	0.55	-0.11	-1.47
3,819.00	19.100	108.70	3,550.12	-367.45	1,105.83	1,165.28	2.33	-2.32	0.74
3,915.00	17.400	108.70	3,641.29	-377.09	1,134.31	1,195.34	1.77	-1.77	0.00
4,010.00	15.300	108.00	3,732.44	-385.52	1,159.69	1,222.09	2.22	-2.21	-0.74
4,107.00	14.200	107.10	3,826.24	-392.97	1,183.23	1,246.78	1.16	-1.13	-0.93

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4,201.00	12.900	107.40	3,917.62	-399.50	1,204.26	1,268.80	1.38	-1.38	0.32	
4,297.00	10.800	108.70	4,011.57	-405.59	1,223.01	1,288.51	2.20	-2.19	1.35	
4,392.00	8.600	110.40	4,105.21	-410.92	1,238.10	1,304.51	2.34	-2.32	1.79	
4,487.00	6.000	109.10	4,199.43	-415.02	1,249.45	1,316.57	2.74	-2.74	-1.37	
4,582.00	4.100	101.20	4,294.06	-417.30	1,257.48	1,324.91	2.13	-2.00	-8.32	
4,677.00	2.700	85.80	4,388.89	-417.80	1,263.04	1,330.34	1.75	-1.47	-16.21	
4,773.00	2.500	91.70	4,484.79	-417.70	1,267.39	1,334.44	0.35	-0.21	6.15	
4,868.00	1.600	99.10	4,579.73	-417.97	1,270.77	1,337.73	0.99	-0.95	7.79	
4,964.00	1.800	104.40	4,675.69	-418.55	1,273.55	1,340.55	0.26	0.21	5.52	
5,059.00	1.400	174.40	4,770.66	-420.08	1,275.11	1,342.52	1.96	-0.42	73.68	
5,154.00	1.600	178.20	4,865.63	-422.56	1,275.26	1,343.45	0.24	0.21	4.00	
5,250.00	1.800	165.00	4,961.59	-425.36	1,275.70	1,344.74	0.46	0.21	-13.75	
5,345.00	0.700	192.20	5,056.56	-427.37	1,275.96	1,345.63	1.28	-1.16	28.63	
5,440.00	0.700	195.40	5,151.56	-428.49	1,275.68	1,345.72	0.04	0.00	3.37	
5,536.00	1.100	163.50	5,247.54	-429.94	1,275.79	1,346.28	0.65	0.42	-33.23	
5,631.00	0.400	152.20	5,342.54	-431.11	1,276.20	1,347.04	0.75	-0.74	-11.89	
5,726.00	0.700	105.20	5,437.53	-431.55	1,276.92	1,347.86	0.55	0.32	-49.47	
5,822.00	0.700	40.20	5,533.53	-431.26	1,277.86	1,348.66	0.78	0.00	-67.71	
5,917.00	2.200	355.70	5,628.49	-429.00	1,278.10	1,348.17	1.86	1.58	-46.84	
6,012.00	1.600	27.90	5,723.44	-426.01	1,278.58	1,347.69	1.26	-0.63	33.89	
6,108.00	2.000	331.90	5,819.40	-423.35	1,278.42	1,346.69	1.80	0.42	-58.33	
6,203.00	1.300	322.90	5,914.36	-421.02	1,276.99	1,344.60	0.78	-0.74	-9.47	
6,299.00	1.100	286.20	6,010.34	-419.90	1,275.45	1,342.78	0.81	-0.21	-38.23	
6,394.00	0.400	342.60	6,105.34	-419.33	1,274.47	1,341.68	0.99	-0.74	59.37	
6,489.00	1.100	1.80	6,200.33	-418.10	1,274.40	1,341.22	0.77	0.74	20.21	
6,585.00	1.700	319.10	6,296.30	-416.10	1,273.50	1,339.73	1.21	0.63	-44.48	
6,680.00	1.100	321.60	6,391.27	-414.32	1,272.01	1,337.76	0.63	-0.63	2.63	
6,775.00	1.000	341.00	6,486.26	-412.82	1,271.18	1,336.49	0.39	-0.11	20.42	
6,871.00	0.400	1.10	6,582.25	-411.70	1,270.91	1,335.88	0.67	-0.63	20.94	
6,966.00	0.400	7.50	6,677.25	-411.04	1,270.96	1,335.72	0.05	0.00	6.74	
7,062.00	1.000	23.50	6,773.24	-409.94	1,271.34	1,335.73	0.65	0.63	16.67	
7,157.00	0.400	32.20	6,868.23	-408.90	1,271.84	1,335.88	0.64	-0.63	9.16	
7,253.00	0.100	186.20	6,964.23	-408.69	1,272.01	1,335.98	0.51	-0.31	160.42	
7,348.00	0.500	152.00	7,059.23	-409.14	1,272.20	1,336.29	0.44	0.42	-36.00	
7,443.00	1.100	125.10	7,154.22	-410.03	1,273.14	1,337.47	0.73	0.63	-28.32	
7,513.00	1.200	141.70	7,224.21	-411.00	1,274.14	1,338.73	0.49	0.14	23.71	
7,560.00	1.200	141.70	7,271.20	-411.77	1,274.75	1,339.55	0.00	0.00	0.00	

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Well:	GGU Daley 31D-30-691	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)
793.00	792.99	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
740.00	740.00	0.01	0.34	End of Gyros	

Checked By: _____ Approved By: _____ Date: _____