



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Miller 5 Pad

GGU Linkenhoker 23A-31-691

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

11 May, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Linkenhoker 23A-31-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6052.00ft
Site:	Miller 5 Pad	MD Reference:	KB @ 6052.00ft
Well:	GGU Linkenhoker 23A-31-691	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	Miller 5 Pad				
Site Position:		Northing:	1,607,036.99 usft	Latitude:	39° 28' 52.56 N
From:	Lat/Long	Easting:	2,407,039.11 usft	Longitude:	107° 36' 3.43 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.33 °

Well	GGU Linkenhoker 23A-31-691					
Well Position	+N/-S	0.00 ft	Northing:	1,607,036.96 usft	Latitude:	39° 28' 52.56 N
	+E/-W	0.00 ft	Easting:	2,407,039.11 usft	Longitude:	107° 36' 3.43 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,029.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/28/11	10.20	65.81	52,315

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	102.13	

Survey Program	Date	05/11/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	680.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
700.00	7,075.00	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	
50.00	0.300	265.55	50.00	-0.01	-0.13	-0.13	0.60	0.60	0.00	
100.00	0.070	275.18	100.00	-0.02	-0.29	-0.28	0.46	-0.46	19.26	
150.00	0.020	302.96	150.00	-0.01	-0.33	-0.32	0.11	-0.10	55.56	
200.00	0.100	347.71	200.00	0.04	-0.35	-0.35	0.17	0.16	89.50	
250.00	0.180	22.65	250.00	0.15	-0.32	-0.35	0.23	0.16	69.88	
300.00	0.110	46.35	300.00	0.26	-0.26	-0.31	0.18	-0.14	47.40	
350.00	0.110	61.81	350.00	0.31	-0.18	-0.24	0.06	0.00	30.92	
400.00	0.080	110.48	400.00	0.32	-0.11	-0.17	0.17	-0.06	97.34	
450.00	0.040	136.53	450.00	0.30	-0.06	-0.12	0.09	-0.08	52.10	

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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	0.080	172.53	500.00	0.25	-0.05	-0.10	0.11	0.08	72.00
550.00	0.090	195.63	550.00	0.18	-0.05	-0.09	0.07	0.02	46.20
600.00	0.050	222.09	600.00	0.13	-0.08	-0.10	0.10	-0.08	52.92
650.00	0.120	260.39	650.00	0.10	-0.14	-0.16	0.17	0.14	76.60
680.00	0.060	271.83	680.00	0.10	-0.19	-0.21	0.21	-0.20	38.13
700.00	0.060	271.83	700.00	0.10	-0.21	-0.23	0.00	0.00	0.00
732.50	0.167	114.21	732.50	0.08	-0.19	-0.20	0.69	0.33	-484.99
9 5/8"									
781.00	0.500	110.30	781.00	-0.02	0.08	0.08	0.69	0.69	-8.06
873.00	2.100	135.90	872.97	-1.37	1.63	1.88	1.81	1.74	27.83
964.00	3.300	118.00	963.87	-3.80	5.10	5.79	1.60	1.32	-19.67
1,056.00	5.500	117.70	1,055.59	-7.09	11.34	12.58	2.39	2.39	-0.33
1,151.00	6.400	98.90	1,150.09	-10.03	20.61	22.25	2.25	0.95	-19.79
1,247.00	8.500	101.70	1,245.27	-12.30	32.84	34.69	2.22	2.19	2.92
1,342.00	9.800	100.50	1,339.06	-15.19	47.67	49.79	1.38	1.37	-1.26
1,437.00	12.400	99.50	1,432.28	-18.35	65.68	68.07	2.74	2.74	-1.05
1,533.00	12.300	100.60	1,526.06	-21.93	85.90	88.59	0.27	-0.10	1.15
1,628.00	14.700	105.90	1,618.43	-27.10	107.44	110.73	2.84	2.53	5.58
1,724.00	14.700	100.50	1,711.29	-32.66	131.13	135.06	1.43	0.00	-5.63
1,819.00	15.500	98.20	1,803.01	-36.66	155.55	159.78	1.05	0.84	-2.42
1,915.00	13.400	96.60	1,895.97	-39.77	179.30	183.65	2.23	-2.19	-1.67
2,010.00	13.100	101.10	1,988.44	-43.11	200.80	205.37	1.13	-0.32	4.74
2,105.00	13.100	101.60	2,080.97	-47.35	221.91	226.90	0.12	0.00	0.53
2,201.00	11.800	100.70	2,174.71	-51.36	242.21	247.59	1.37	-1.35	-0.94
2,296.00	11.800	102.10	2,267.70	-55.20	261.25	267.02	0.30	0.00	1.47
2,391.00	12.000	103.60	2,360.66	-59.55	280.35	286.60	0.39	0.21	1.58
2,487.00	13.400	104.40	2,454.31	-64.67	300.82	307.70	1.47	1.46	0.83
2,581.00	12.900	102.10	2,545.85	-69.58	321.63	329.07	0.77	-0.53	-2.45
2,677.00	13.000	104.80	2,639.41	-74.58	342.55	350.58	0.64	0.10	2.81
2,772.00	12.000	98.40	2,732.16	-78.75	362.65	371.11	1.80	-1.05	-6.74
2,867.00	11.900	100.40	2,825.10	-81.96	382.06	390.75	0.45	-0.11	2.11
2,962.00	12.100	102.00	2,918.02	-85.80	401.43	410.50	0.41	0.21	1.68
3,057.00	13.000	104.70	3,010.75	-90.58	421.51	431.13	1.13	0.95	2.84
3,153.00	12.600	100.60	3,104.37	-95.25	442.24	452.38	1.03	-0.42	-4.27
3,248.00	13.000	99.40	3,197.01	-98.90	462.97	473.42	0.51	0.42	-1.26
3,343.00	12.700	101.90	3,289.63	-102.80	483.73	494.53	0.66	-0.32	2.63
3,439.00	12.200	98.40	3,383.37	-106.46	504.09	515.21	0.94	-0.52	-3.65
3,534.00	11.300	101.50	3,476.38	-109.78	523.14	534.53	1.16	-0.95	3.26
3,629.00	10.300	100.20	3,569.70	-113.14	540.62	552.33	1.08	-1.05	-1.37
3,724.00	8.800	102.80	3,663.38	-116.25	556.07	568.08	1.64	-1.58	2.74
3,820.00	7.600	98.50	3,758.40	-118.82	569.51	581.76	1.40	-1.25	-4.48
3,915.00	6.300	99.00	3,852.70	-120.56	580.87	593.24	1.37	-1.37	0.53
4,010.00	5.800	93.90	3,947.17	-121.71	590.81	603.19	0.77	-0.53	-5.37

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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)	
4,104.00	4.000	98.30	4,040.82	-122.50	598.79	611.16	1.95	-1.91	4.68	
4,200.00	3.600	98.50	4,136.61	-123.43	605.08	617.51	0.42	-0.42	0.21	
4,295.00	3.500	81.30	4,231.43	-123.43	610.90	623.20	1.12	-0.11	-18.11	
4,391.00	1.600	79.80	4,327.33	-122.75	615.12	627.18	1.98	-1.98	-1.56	
4,486.00	1.600	94.80	4,422.30	-122.63	617.74	629.72	0.44	0.00	15.79	
4,581.00	1.100	106.80	4,517.27	-123.00	619.94	631.94	0.60	-0.53	12.63	
4,677.00	1.600	167.20	4,613.25	-124.58	621.12	633.43	1.48	0.52	62.92	
4,772.00	0.800	233.50	4,708.23	-126.26	620.88	633.55	1.55	-0.84	69.79	
4,868.00	1.700	209.90	4,804.21	-127.90	619.63	632.67	1.06	0.94	-24.58	
4,936.00	1.900	173.00	4,872.17	-129.89	619.26	632.73	1.70	0.29	-54.26	
5,058.00	0.800	179.20	4,994.14	-132.75	619.52	633.59	0.91	-0.90	5.08	
5,153.00	0.800	297.70	5,089.13	-133.10	618.95	633.10	1.45	0.00	124.74	
5,249.00	0.500	196.90	5,185.13	-133.19	618.23	632.42	1.06	-0.31	-105.00	
5,344.00	2.300	186.30	5,280.10	-135.49	617.90	632.57	1.91	1.89	-11.16	
5,439.00	1.500	221.80	5,375.05	-138.31	616.86	632.15	1.46	-0.84	37.37	
5,534.00	1.100	229.10	5,470.02	-139.83	615.34	630.99	0.45	-0.42	7.68	
5,629.00	1.400	255.30	5,565.00	-140.72	613.53	629.40	0.67	0.32	27.58	
5,725.00	1.800	334.10	5,660.97	-139.66	611.74	627.43	2.14	0.42	82.08	
5,820.00	1.100	320.40	5,755.94	-137.62	610.51	625.79	0.82	-0.74	-14.42	
5,915.00	1.100	263.40	5,850.93	-137.02	609.02	624.21	1.10	0.00	-60.00	
6,011.00	1.400	216.00	5,946.91	-138.08	607.41	622.87	1.09	0.31	-49.38	
6,106.00	0.200	336.40	6,041.90	-138.86	606.67	622.30	1.59	-1.26	126.74	
6,202.00	1.400	35.60	6,137.89	-137.76	607.28	622.67	1.36	1.25	61.67	
6,297.00	0.600	33.00	6,232.87	-136.39	608.23	623.31	0.84	-0.84	-2.74	
6,393.00	0.800	76.80	6,328.87	-135.82	609.15	624.09	0.58	0.21	45.63	
6,488.00	0.300	86.00	6,423.86	-135.65	610.05	624.93	0.53	-0.53	9.68	
6,583.00	0.700	136.90	6,518.86	-136.06	610.69	625.65	0.59	0.42	53.58	
6,678.00	1.000	279.80	6,613.85	-136.34	610.27	625.30	1.70	0.32	150.42	
6,773.00	0.900	213.00	6,708.84	-136.83	609.05	624.20	1.10	-0.11	-70.32	
6,868.00	0.400	318.00	6,803.84	-137.20	608.42	623.67	1.13	-0.53	110.53	
6,964.00	0.800	232.90	6,899.83	-137.36	607.66	622.96	0.90	0.42	-88.65	
7,030.00	1.500	188.80	6,965.82	-138.49	607.16	622.71	1.64	1.06	-66.82	
7,075.00	1.500	188.80	7,010.81	-139.66	606.98	622.78	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (ft)	Hole Diameter (ft)
732.50	732.50	9 5/8"		0.80	1.02

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Linkenhoker 23A-31-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6052.00ft
Site:	Miller 5 Pad	MD Reference:	KB @ 6052.00ft
Well:	GGU Linkenhoker 23A-31-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
680.00	680.00	0.10	-0.19	End of Gyros

Checked By: _____	Approved By: _____	Date: _____
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