



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado

Miller 10 Pad

Miller 33C-6-791

Wellbore #1

Survey: Surveys from Surface

Standard Survey Report

21 January, 2011



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Miller 33C-6-791
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6285.00ft
Site:	Miller 10 Pad	MD Reference:	KB @ 6285.00ft
Well:	Miller 33C-6-791	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Project	Garfield County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Miller 10 Pad			
Site Position:		Northing:	1,605,362.13 usft	Latitude:	39° 28' 36.39 N
From:	Lat/Long	Easting:	2,408,695.61 usft	Longitude:	107° 35' 41.81 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.32 °

Well	Miller 33C-6-791					
Well Position	+N/-S	0.00 ft	Northing:	1,605,356.60 usft	Latitude:	39° 28' 36.34 N
	+E/-W	0.00 ft	Easting:	2,408,713.84 usft	Longitude:	107° 35' 41.58 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,263.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/28/10	10.26	65.83	52,408

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	144.80	

Survey Program	Date	01/21/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	650.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
778.00	7,135.00	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	0.520	134.63	50.00	-0.16	0.16	0.22	1.04	1.04	0.00	
100.00	0.450	154.98	100.00	-0.50	0.41	0.64	0.37	-0.14	40.70	
150.00	0.380	139.36	150.00	-0.80	0.60	1.00	0.26	-0.14	-31.24	
200.00	0.510	144.25	199.99	-1.11	0.84	1.39	0.27	0.26	9.78	
250.00	0.300	143.15	249.99	-1.39	1.04	1.74	0.42	-0.42	-2.20	
300.00	0.380	156.62	299.99	-1.65	1.19	2.03	0.23	0.16	26.94	
350.00	0.210	236.91	349.99	-1.85	1.18	2.19	0.80	-0.34	160.58	
400.00	0.570	193.31	399.99	-2.14	1.04	2.35	0.88	0.72	-87.20	
450.00	0.530	179.37	449.99	-2.62	0.99	2.71	0.28	-0.08	-27.88	

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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	0.710	170.46	499.99	-3.15	1.04	3.18	0.41	0.36	-17.82
550.00	0.590	167.10	549.98	-3.71	1.15	3.69	0.25	-0.24	-6.72
600.00	0.550	148.28	599.98	-4.16	1.33	4.17	0.38	-0.08	-37.64
650.00	0.470	137.54	649.98	-4.52	1.60	4.62	0.25	-0.16	-21.48
697.00	0.297	137.54	696.98	-4.75	1.81	4.93	0.37	-0.37	0.00
9 5/8"									
778.00	0.000	220.80	777.98	-4.91	1.95	5.14	0.37	-0.37	0.00
869.00	2.700	138.80	868.94	-6.52	3.37	7.27	2.97	2.97	0.00
961.00	4.800	144.20	960.74	-11.27	7.04	13.27	2.31	2.28	5.87
1,056.00	6.600	135.00	1,055.27	-18.36	13.23	22.63	2.12	1.89	-9.68
1,150.00	8.100	131.90	1,148.49	-26.60	21.98	34.41	1.65	1.60	-3.30
1,246.00	10.200	138.20	1,243.27	-37.46	32.68	49.45	2.42	2.19	6.56
1,341.00	11.300	139.90	1,336.60	-50.85	44.28	67.08	1.20	1.16	1.79
1,436.00	11.200	142.60	1,429.78	-65.30	55.88	85.57	0.56	-0.11	2.84
1,531.00	9.900	138.80	1,523.17	-78.77	66.87	102.91	1.55	-1.37	-4.00
1,626.00	8.400	139.10	1,616.96	-90.16	76.79	117.94	1.58	-1.58	0.32
1,721.00	8.600	141.70	1,710.92	-100.98	85.73	131.94	0.46	0.21	2.74
1,816.00	9.000	146.90	1,804.80	-112.78	94.19	146.45	0.94	0.42	5.47
1,912.00	9.200	149.40	1,899.59	-125.67	102.20	161.61	0.46	0.21	2.60
2,007.00	9.200	143.40	1,993.37	-138.31	110.60	176.77	1.01	0.00	-6.32
2,102.00	9.700	146.70	2,087.08	-151.10	119.52	192.36	0.78	0.53	3.47
2,197.00	10.900	147.70	2,180.55	-165.38	128.71	209.33	1.28	1.26	1.05
2,292.00	10.000	144.00	2,273.97	-179.64	138.36	226.55	1.18	-0.95	-3.89
2,387.00	9.000	132.70	2,367.68	-191.36	148.67	242.06	2.22	-1.05	-11.89
2,482.00	9.000	132.50	2,461.51	-201.42	159.61	256.59	0.03	0.00	-0.21
2,577.00	9.500	138.10	2,555.27	-212.27	170.32	271.64	1.08	0.53	5.89
2,672.00	10.200	138.90	2,648.87	-224.44	181.09	287.79	0.75	0.74	0.84
2,768.00	8.400	137.70	2,743.61	-236.04	191.40	303.20	1.89	-1.88	-1.25
2,863.00	8.700	144.00	2,837.55	-246.98	200.29	317.27	1.03	0.32	6.63
2,958.00	9.300	141.70	2,931.38	-258.82	209.27	332.12	0.74	0.63	-2.42
3,053.00	9.800	146.60	3,025.07	-271.59	218.48	347.87	1.00	0.53	5.16
3,148.00	9.700	151.50	3,118.70	-285.38	226.75	363.90	0.88	-0.11	5.16
3,243.00	10.300	151.20	3,212.26	-299.85	234.66	380.29	0.63	0.63	-0.32
3,338.00	10.500	156.00	3,305.70	-315.20	242.27	397.22	0.94	0.21	5.05
3,433.00	9.100	149.10	3,399.31	-329.56	249.65	413.20	1.92	-1.47	-7.26
3,528.00	9.100	144.40	3,493.12	-342.11	257.88	428.21	0.78	0.00	-4.95
3,624.00	9.800	144.70	3,587.81	-354.95	267.02	443.97	0.73	0.73	0.31
3,719.00	8.600	160.40	3,681.60	-368.25	274.08	458.90	2.92	-1.26	16.53
3,814.00	9.000	154.30	3,775.49	-381.63	279.68	473.07	1.07	0.42	-6.42
3,909.00	9.700	154.90	3,869.23	-395.58	286.30	488.28	0.74	0.74	0.63
4,004.00	10.000	155.80	3,962.82	-410.35	293.08	504.25	0.35	0.32	0.95
4,099.00	10.000	161.00	4,056.38	-425.67	299.14	520.27	0.95	0.00	5.47
4,194.00	8.300	152.10	4,150.18	-439.53	305.04	535.00	2.32	-1.79	-9.37

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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)	
4,289.00	7.300	140.90	4,244.30	-450.28	312.06	547.82	1.91	-1.05	-11.79	
4,385.00	5.600	135.00	4,339.69	-458.32	319.21	558.52	1.90	-1.77	-6.15	
4,480.00	3.200	139.30	4,434.40	-463.61	324.22	565.73	2.55	-2.53	4.53	
4,575.00	1.100	108.30	4,529.33	-465.91	326.82	569.10	2.45	-2.21	-32.63	
4,670.00	2.800	22.90	4,624.29	-464.06	328.59	568.61	3.08	1.79	-89.89	
4,765.00	2.600	19.70	4,719.18	-459.89	330.22	566.14	0.26	-0.21	-3.37	
4,860.00	2.400	9.70	4,814.09	-455.90	331.28	563.50	0.50	-0.21	-10.53	
4,955.00	0.400	54.80	4,909.06	-453.75	331.88	562.09	2.25	-2.11	47.47	
5,051.00	0.500	199.60	5,005.06	-453.95	332.02	562.33	0.89	0.10	150.83	
5,146.00	1.900	183.20	5,100.04	-455.91	331.79	563.80	1.50	1.47	-17.26	
5,241.00	1.100	280.70	5,195.02	-457.32	330.81	564.38	2.44	-0.84	102.63	
5,336.00	1.700	332.00	5,289.99	-455.90	329.25	562.33	1.40	0.63	54.00	
5,431.00	0.800	291.00	5,384.97	-454.42	327.97	560.38	1.28	-0.95	-43.16	
5,526.00	1.100	268.00	5,479.96	-454.22	326.44	559.33	0.50	0.32	-24.21	
5,621.00	1.600	249.90	5,574.93	-454.70	324.28	558.48	0.69	0.53	-19.05	
5,716.00	0.700	52.90	5,669.92	-454.81	323.50	558.12	2.40	-0.95	171.58	
5,811.00	1.500	358.40	5,764.90	-453.22	323.92	557.06	1.30	0.84	-57.37	
5,906.00	0.400	11.70	5,859.89	-451.65	323.96	555.80	1.17	-1.16	14.00	
6,001.00	0.400	268.20	5,954.89	-451.33	323.69	555.39	0.66	0.00	-108.95	
6,097.00	1.100	87.50	6,050.88	-451.30	324.28	555.71	1.56	0.73	186.77	
6,192.00	1.300	142.10	6,145.87	-452.11	325.85	557.27	1.17	0.21	57.47	
6,287.00	1.300	130.40	6,240.84	-453.66	327.33	559.39	0.28	0.00	-12.32	
6,382.00	1.100	81.90	6,335.82	-454.23	329.06	560.85	1.06	-0.21	-51.05	
6,477.00	2.100	31.80	6,430.79	-452.63	330.88	560.59	1.72	1.05	-52.74	
6,572.00	1.100	59.40	6,525.75	-450.68	332.58	559.98	1.30	-1.05	29.05	
6,667.00	0.400	47.90	6,620.74	-450.00	333.61	560.02	0.75	-0.74	-12.11	
6,762.00	1.200	166.90	6,715.74	-450.74	334.08	560.90	1.51	0.84	125.26	
6,857.00	1.700	178.30	6,810.71	-453.12	334.35	562.99	0.61	0.53	12.00	
7,047.00	3.200	192.90	7,000.53	-461.11	333.25	568.89	0.85	0.79	7.68	
7,090.00	3.200	185.40	7,043.46	-463.47	332.87	570.60	0.97	0.00	-17.44	
7,135.00	3.200	185.40	7,088.39	-465.97	332.63	572.51	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (ft)	Hole Diameter (ft)
697.00	696.98	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
650.00	649.98	-4.52	1.60	End of Gyros	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Miller 33C-6-791
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Checked By: _____ Approved By: _____ Date: _____