



Bill Barrett Corp.

Garfield County, Colorado

Miller 10 Pad

Miller 33A-6-791

Wellbore #1

Survey: Surveys

Standard Survey Report

25 January, 2011



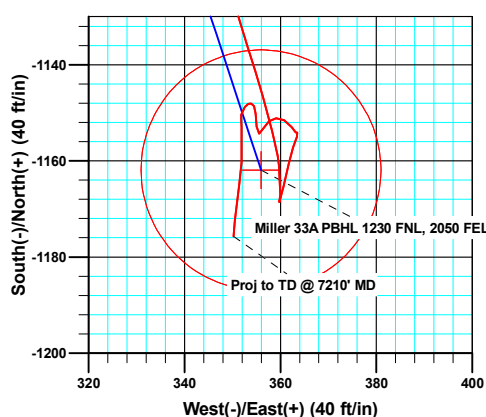
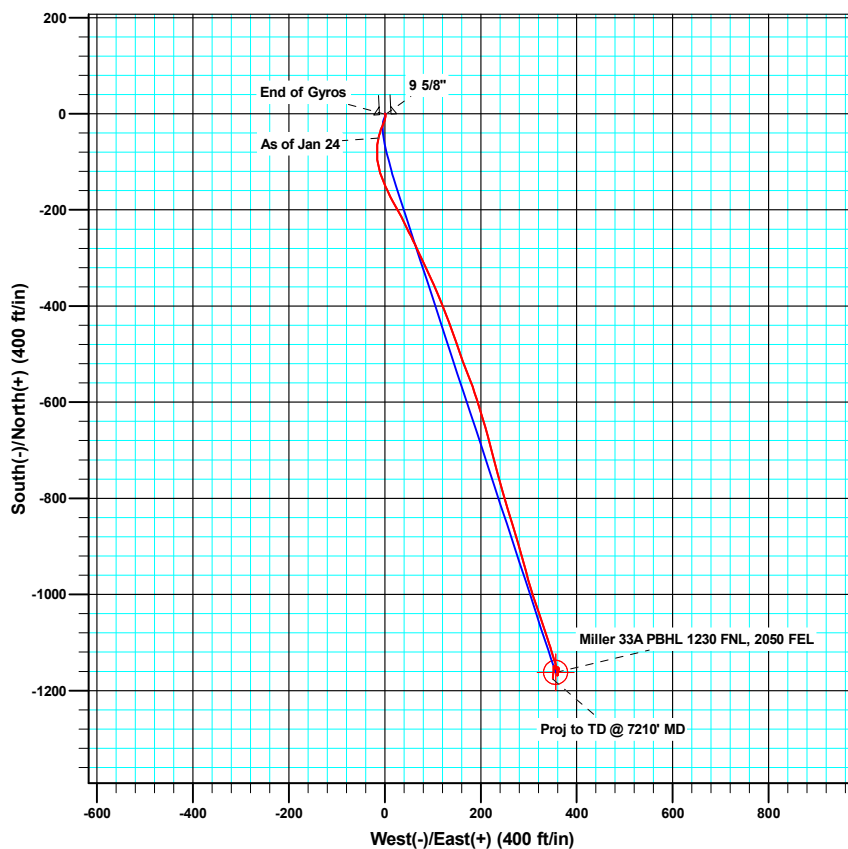
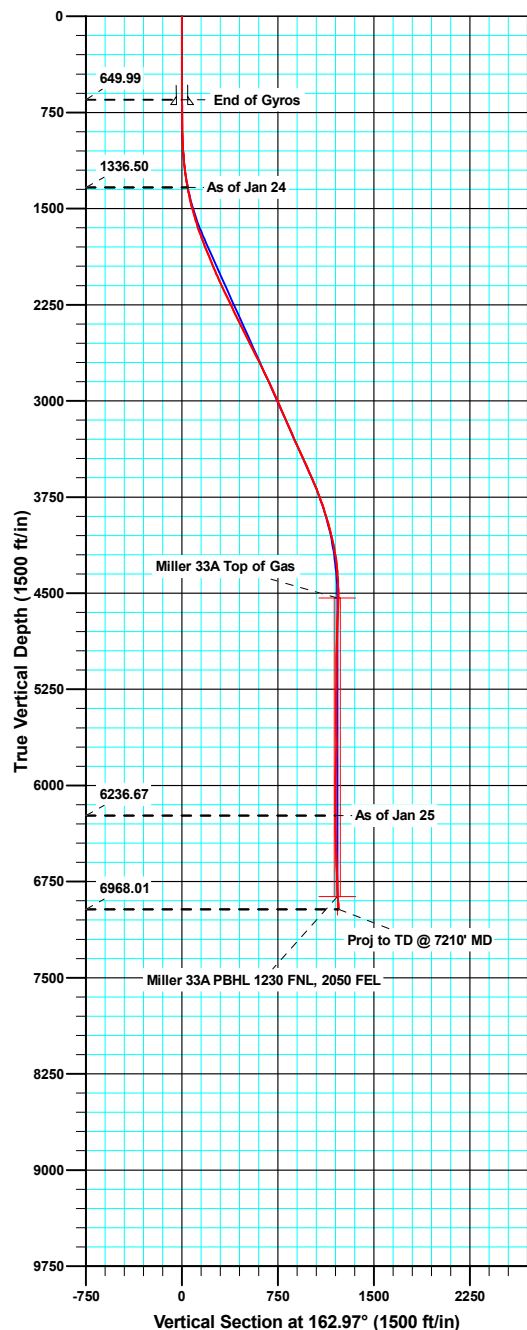


Bill Barrett Corporation

WELL DETAILS: Miller 33A-6-791

Ground Level: 6264.00

North American Datum 1983		US State Plane 1983		Colorado Central Zone	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1605350.22	2408706.35	39° 28' 36.27 N	107° 35' 41.67 W



Azimuths to True North
Magnetic North: 10.26°

Magnetic Field
Strength: 52408.2snT
Dip Angle: 65.83°
Date: 07/28/2010
Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V/Sect	Departure	Annotation
1336.50	1340.00	12.000	192.80	-50.83	-13.04	44.78	52.46	As of Jan 24
6236.67	6478.00	0.900	218.50	-1148.83	352.57	1201.71	1274.09	As of Jan 25
6968.01	7210.00	4.200	184.30	-1175.69	350.28	1226.73	1301.50	Proj to TD @ 7210' MD

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Miller 33A-6-791
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6286.00ft
Site:	Miller 10 Pad	MD Reference:	KB @ 6286.00ft
Well:	Miller 33A-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 33A-6-791					
Well Position	+N/-S	0.00 ft	Northing:	1,605,350.21 usft	Latitude:	39° 28' 36.27 N
	+E/-W	0.00 ft	Easting:	2,408,706.35 usft	Longitude:	107° 35' 41.67 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,264.00 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	162.97	

Survey Program	Date	01/25/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	650.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
868.00	7,210.00	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)	
650.00	0.390	185.75	649.99	-1.03	1.19	1.34	0.00	0.00	0.00	
689.00	0.431	176.76	688.99	-1.31	1.19	1.60	0.20	0.11	-23.06	
9 5/8"										
868.00	0.700	153.20	867.98	-2.96	1.72	3.33	0.20	0.15	-13.16	
960.00	2.700	193.90	959.94	-5.57	1.45	5.75	2.41	2.17	44.24	
1,055.00	4.800	193.10	1,054.73	-11.61	0.01	11.10	2.21	2.21	-0.84	
1,150.00	6.900	202.70	1,149.23	-20.75	-3.09	18.93	2.43	2.21	10.11	
1,245.00	9.800	200.10	1,243.21	-33.61	-8.07	29.77	3.08	3.05	-2.74	
1,340.00	12.000	192.80	1,336.50	-50.83	-13.04	44.78	2.73	2.32	-7.68	
1,435.00	13.900	183.10	1,429.09	-71.86	-15.85	64.07	3.03	2.00	-10.21	

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Well:	Miller 33A-6-791	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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)	
1,530.00	15.600	175.30	1,520.97	-95.99	-15.42	87.27	2.75	1.79	-8.21	
1,626.00	17.800	162.20	1,612.94	-122.84	-9.87	114.56	4.53	2.29	-13.65	
1,721.00	19.800	155.30	1,702.88	-151.29	1.29	145.03	3.14	2.11	-7.26	
1,816.00	22.400	151.30	1,791.51	-181.79	16.71	178.71	3.13	2.74	-4.21	
1,911.00	22.800	152.20	1,879.21	-213.95	33.99	214.52	0.56	0.42	0.95	
2,006.00	22.700	153.70	1,966.82	-246.67	50.70	250.70	0.62	-0.11	1.58	
2,101.00	25.700	155.10	2,053.47	-281.79	67.49	289.20	3.21	3.16	1.47	
2,196.00	25.500	154.00	2,139.14	-318.86	85.13	329.81	0.54	-0.21	-1.16	
2,291.00	25.300	155.90	2,224.96	-355.77	102.39	370.15	0.88	-0.21	2.00	
2,386.00	26.300	158.00	2,310.49	-393.81	118.56	411.27	1.43	1.05	2.21	
2,481.00	26.600	159.60	2,395.55	-433.26	133.86	453.47	0.81	0.32	1.68	
2,577.00	26.700	161.40	2,481.35	-473.85	148.23	496.48	0.85	0.10	1.88	
2,672.00	26.700	159.30	2,566.22	-514.04	162.58	539.11	0.99	0.00	-2.21	
2,767.00	26.800	158.60	2,651.05	-553.94	177.94	581.77	0.35	0.11	-0.74	
2,862.00	25.500	163.10	2,736.34	-593.46	191.70	623.58	2.50	-1.37	4.74	
2,957.00	25.800	162.40	2,821.98	-632.73	203.90	664.70	0.45	0.32	-0.74	
3,052.00	24.700	164.70	2,907.90	-671.58	215.38	705.21	1.55	-1.16	2.42	
3,147.00	24.500	165.90	2,994.28	-709.83	225.42	744.73	0.57	-0.21	1.26	
3,243.00	23.600	165.30	3,081.94	-747.73	235.15	783.81	0.97	-0.94	-0.63	
3,338.00	23.600	164.00	3,169.00	-784.40	245.21	821.82	0.55	0.00	-1.37	
3,433.00	23.200	163.30	3,256.19	-820.60	255.83	859.55	0.51	-0.42	-0.74	
3,528.00	24.800	162.70	3,342.97	-857.55	267.14	898.19	1.70	1.68	-0.63	
3,623.00	24.400	164.50	3,429.35	-895.48	278.30	937.73	0.89	-0.42	1.89	
3,718.00	24.500	164.00	3,515.83	-933.33	288.98	977.04	0.24	0.11	-0.53	
3,813.00	22.900	165.20	3,602.81	-970.13	299.13	1,015.20	1.76	-1.68	1.26	
3,908.00	22.500	161.40	3,690.46	-1,005.24	309.65	1,051.85	1.60	-0.42	-4.00	
4,003.00	20.210	161.00	3,778.93	-1,037.98	320.79	1,086.42	2.42	-2.41	-0.42	
4,098.00	17.900	160.90	3,868.72	-1,067.30	330.91	1,117.41	2.43	-2.43	-0.11	
4,194.00	16.200	161.90	3,960.50	-1,093.97	339.90	1,145.55	1.80	-1.77	1.04	
4,289.00	13.400	162.90	4,052.34	-1,117.09	347.26	1,169.81	2.96	-2.95	1.05	
4,384.00	10.800	162.60	4,145.22	-1,136.11	353.16	1,189.72	2.74	-2.74	-0.32	
4,479.00	7.900	164.80	4,238.95	-1,150.91	357.53	1,205.15	3.08	-3.05	2.32	
4,574.00	4.700	172.40	4,333.36	-1,161.07	359.76	1,215.52	3.47	-3.37	8.00	
4,669.00	2.500	188.40	4,428.17	-1,166.98	359.97	1,221.23	2.52	-2.32	16.84	
4,764.00	0.600	15.20	4,523.15	-1,168.55	359.80	1,222.68	3.26	-2.00	-182.32	
4,861.00	3.300	15.50	4,620.08	-1,165.37	360.68	1,219.90	2.78	2.78	0.31	
4,956.00	2.500	9.60	4,714.96	-1,160.69	361.75	1,215.74	0.90	-0.84	-6.21	
5,051.00	1.900	20.70	4,809.89	-1,157.17	362.66	1,212.64	0.77	-0.63	11.68	
5,146.00	0.900	18.00	4,904.86	-1,154.99	363.44	1,210.79	1.05	-1.05	-2.84	
5,241.00	0.300	313.30	4,999.85	-1,154.11	363.49	1,209.96	0.86	-0.63	-68.11	
5,336.00	0.200	228.60	5,094.85	-1,154.05	363.19	1,209.81	0.36	-0.11	-89.16	
5,432.00	1.600	330.20	5,190.84	-1,153.00	362.39	1,208.57	1.72	1.46	105.83	
5,527.00	1.200	287.80	5,285.82	-1,151.54	360.79	1,206.71	1.14	-0.42	-44.63	

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Design:	Wellbore #1	Database:	Compass VM

Survey										
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5,622.00	0.900	277.20	5,380.80	-1,151.14	359.10	1,205.84	0.37	-0.32	-11.16	
5,717.00	1.200	227.20	5,475.79	-1,151.73	357.63	1,205.96	0.98	0.32	-52.63	
5,812.00	1.300	207.80	5,570.76	-1,153.35	356.40	1,207.16	0.46	0.11	-20.42	
5,907.00	0.400	267.50	5,665.75	-1,154.32	355.56	1,207.84	1.21	-0.95	62.84	
6,002.00	1.800	354.10	5,760.74	-1,152.85	355.08	1,206.29	1.92	1.47	91.16	
6,098.00	1.400	355.80	5,856.70	-1,150.18	354.84	1,203.67	0.42	-0.42	1.77	
6,193.00	0.600	326.80	5,951.68	-1,148.61	354.48	1,202.06	0.97	-0.84	-30.53	
6,288.00	0.400	294.60	6,046.68	-1,148.05	353.91	1,201.36	0.36	-0.21	-33.89	
6,383.00	0.400	240.10	6,141.68	-1,148.08	353.32	1,201.22	0.39	0.00	-57.37	
6,478.00	0.900	218.50	6,236.67	-1,148.83	352.57	1,201.71	0.58	0.53	-22.74	
6,573.00	1.200	193.80	6,331.66	-1,150.38	351.87	1,202.99	0.56	0.32	-26.00	
6,668.00	0.300	124.60	6,426.65	-1,151.49	351.83	1,204.04	1.19	-0.95	-72.84	
6,763.00	1.600	183.80	6,521.63	-1,152.95	351.95	1,205.47	1.55	1.37	62.32	
6,858.00	2.400	177.40	6,616.58	-1,156.26	351.95	1,208.64	0.87	0.84	-6.74	
6,953.00	2.500	183.30	6,711.49	-1,160.32	351.92	1,212.51	0.29	0.11	6.21	
7,048.00	2.900	188.00	6,806.38	-1,164.77	351.47	1,216.63	0.48	0.42	4.95	
7,143.00	4.400	187.00	6,901.19	-1,170.76	350.69	1,222.14	1.58	1.58	-1.05	
7,165.00	4.200	184.30	6,923.13	-1,172.41	350.53	1,223.66	1.29	-0.91	-12.27	
7,210.00	4.200	184.30	6,968.01	-1,175.69	350.28	1,226.73	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
689.00	688.99	9 5/8"	0.80	1.02	

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,340.00	1,336.50	-50.83	-13.04	As of Jan 24	
6,478.00	6,236.67	-1,148.83	352.57	As of Jan 25	
7,210.00	6,968.01	-1,175.69	350.28	Proj to TD @ 7210' MD	

Checked By: _____ Approved By: _____ Date: _____