

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Werner Pad

Werner 33C-23-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

16 February, 2012

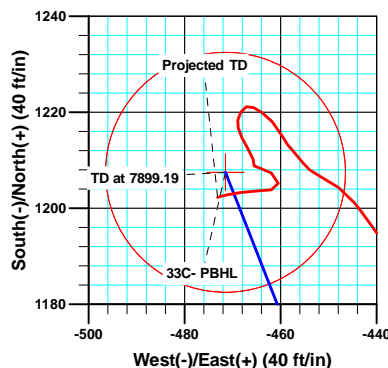
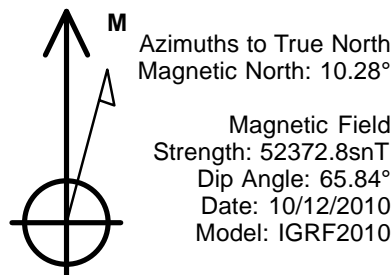
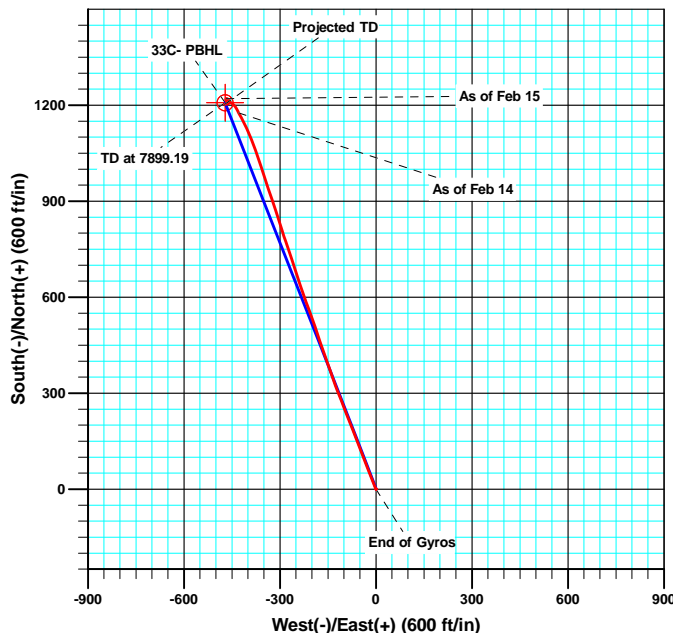
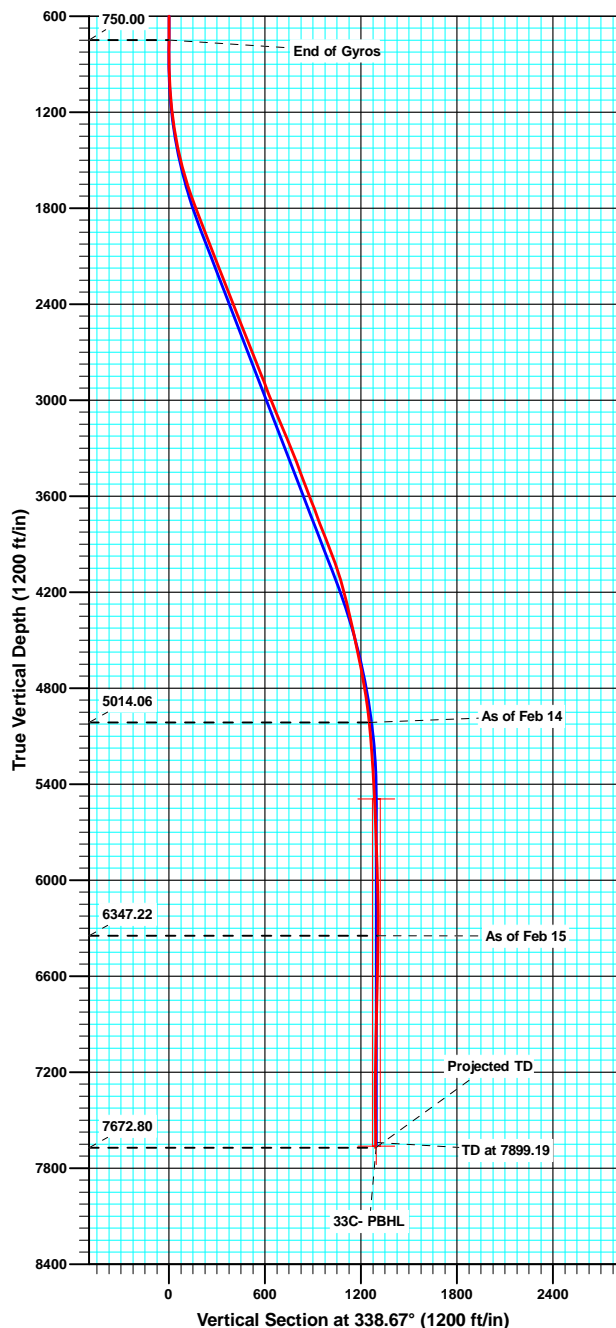


WELL DETAILS: Werner 33C-23-692

US State Plane 1983 North American Datum 1983 Colorado Central Zone

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1616896.73	2398996.74	39° 30' 28.13 N	107° 37' 48.92 W

Ground Level: 5943.00 KB: 23'



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
750.00	750.00	0.220	111.26	0.62	0.00	0.58	1.83	End of Gyros
5014.06	5224.00	5.900	338.40	1175.77	-429.28	1251.37	1254.90	As of Feb 14
6347.22	6559.00	1.300	205.90	1220.03	-468.25	1306.78	1317.62	As of Feb 15
7672.80	7885.00	1.300	253.70	1202.28	-473.11	1292.01	1351.43	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 33C-23-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	GL @ 5943.00ft (Original Well Elev)
Site:	Werner Pad	MD Reference:	GL @ 5943.00ft (Original Well Elev)
Well:	Werner 33C-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

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		Werner Pad			
Site Position:		Northing:	1,616,752.90 usft	Latitude:	39° 30' 26.71 N
From:	Lat/Long	Easting:	2,398,994.50 usft	Longitude:	107° 37' 48.91 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.34 °

Well	Werner 33C-23-692					
Well Position	+N/-S	0.00 ft	Northing:	1,616,896.72 usft	Latitude:	39° 30' 28.13 N
	+E/-W	0.00 ft	Easting:	2,398,996.74 usft	Longitude:	107° 37' 48.92 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,943.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/12/2010	10.28	65.84	52,373

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	338.67	

Survey Program	Date	2/16/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	750.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
855.00	7,885.00	MWD (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	0.350	321.23	50.00	0.12	-0.10	0.15	0.70	0.70	0.00	
100.00	0.290	317.23	100.00	0.33	-0.28	0.41	0.13	-0.12	-8.00	
150.00	0.180	58.00	150.00	0.47	-0.30	0.54	0.74	-0.22	201.54	
200.00	0.050	145.36	200.00	0.49	-0.22	0.53	0.37	-0.26	174.72	
250.00	0.110	211.32	250.00	0.43	-0.23	0.48	0.20	0.12	131.92	
300.00	0.130	301.82	300.00	0.42	-0.30	0.50	0.34	0.04	181.00	
350.00	0.080	34.80	350.00	0.48	-0.33	0.57	0.31	-0.10	185.96	
400.00	0.140	48.54	400.00	0.55	-0.27	0.61	0.13	0.12	27.48	
450.00	0.050	87.97	450.00	0.59	-0.20	0.62	0.21	-0.18	78.86	

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 33C-23-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	GL @ 5943.00ft (Original Well Elev)
Site:	Werner Pad	MD Reference:	GL @ 5943.00ft (Original Well Elev)
Well:	Werner 33C-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

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	0.050	204.51	500.00	0.57	-0.19	0.60	0.17	0.00	233.08
550.00	0.210	40.96	550.00	0.62	-0.13	0.62	0.52	0.32	-327.10
600.00	0.070	137.23	600.00	0.67	-0.05	0.64	0.46	-0.28	192.54
650.00	0.160	243.63	650.00	0.61	-0.10	0.60	0.38	0.18	212.80
700.00	0.120	42.35	700.00	0.62	-0.12	0.62	0.55	-0.08	317.44
750.00	0.220	111.26	750.00	0.62	0.00	0.58	0.42	0.20	137.82
855.00	0.300	262.70	855.00	0.52	-0.08	0.51	0.48	0.08	144.23
947.00	1.700	338.70	946.98	1.76	-0.82	1.93	1.80	1.52	82.61
1,039.00	3.500	333.20	1,038.88	5.53	-2.58	6.09	1.97	1.96	-5.98
1,131.00	4.900	336.70	1,130.64	11.65	-5.40	12.82	1.55	1.52	3.80
1,226.00	7.000	341.90	1,225.12	20.88	-8.80	22.65	2.28	2.21	5.47
1,322.00	9.500	338.50	1,320.12	33.81	-13.53	36.42	2.65	2.60	-3.54
1,417.00	11.400	338.70	1,413.54	49.86	-19.81	53.65	2.00	2.00	0.21
1,512.00	13.900	339.50	1,506.23	69.30	-27.22	74.45	2.64	2.63	0.84
1,608.00	16.300	336.70	1,598.90	92.47	-36.59	99.45	2.61	2.50	-2.92
1,703.00	18.500	339.70	1,689.55	118.86	-47.09	127.84	2.50	2.32	3.16
1,798.00	20.800	338.70	1,779.02	148.71	-58.45	159.79	2.45	2.42	-1.05
1,893.00	21.500	340.00	1,867.62	180.79	-70.53	194.06	0.89	0.74	1.37
1,989.00	20.700	337.40	1,957.18	212.98	-83.07	228.61	1.28	-0.83	-2.71
2,084.00	21.400	337.70	2,045.84	244.52	-96.10	262.72	0.75	0.74	0.32
2,179.00	21.400	340.20	2,134.29	276.86	-108.54	297.38	0.96	0.00	2.63
2,274.00	20.900	338.40	2,222.89	308.93	-120.65	331.65	0.86	-0.53	-1.89
2,369.00	21.400	341.50	2,311.50	341.12	-132.39	365.91	1.29	0.53	3.26
2,464.00	21.300	338.20	2,399.98	373.58	-144.30	400.47	1.27	-0.11	-3.47
2,559.00	21.600	341.80	2,488.41	406.21	-156.17	435.19	1.42	0.32	3.79
2,654.00	22.700	341.00	2,576.39	440.15	-167.60	470.96	1.20	1.16	-0.84
2,749.00	21.800	342.50	2,664.32	474.31	-178.87	506.88	1.12	-0.95	1.58
2,845.00	21.300	340.30	2,753.61	507.73	-190.11	542.10	0.99	-0.52	-2.29
2,940.00	22.200	340.90	2,841.85	540.93	-201.80	577.28	0.98	0.95	0.63
3,035.00	21.200	338.70	2,930.11	573.90	-213.91	612.39	1.36	-1.05	-2.32
3,130.00	21.600	340.10	3,018.56	606.34	-226.10	647.05	0.68	0.42	1.47
3,225.00	21.500	343.00	3,106.93	639.43	-237.14	681.89	1.13	-0.11	3.05
3,320.00	23.000	340.50	3,194.85	673.58	-248.43	717.80	1.87	1.58	-2.63
3,415.00	23.200	342.40	3,282.24	708.91	-260.28	755.03	0.81	0.21	2.00
3,510.00	22.000	341.50	3,369.94	743.62	-271.59	791.47	1.31	-1.26	-0.95
3,605.00	19.100	340.70	3,458.89	775.17	-282.37	824.79	3.07	-3.05	-0.84
3,700.00	21.000	342.00	3,548.12	806.03	-292.77	857.32	2.05	2.00	1.37
3,795.00	21.900	342.50	3,636.54	839.12	-303.36	891.99	0.97	0.95	0.53
3,890.00	20.000	341.90	3,725.26	871.46	-313.74	925.89	2.01	-2.00	-0.63
3,985.00	21.300	342.40	3,814.15	903.35	-324.00	959.33	1.38	1.37	0.53
4,081.00	22.000	341.00	3,903.38	936.98	-335.13	994.69	0.91	0.73	-1.46
4,176.00	20.000	339.90	3,992.07	969.06	-346.50	1,028.72	2.15	-2.11	-1.16
4,271.00	18.300	342.40	4,081.81	998.54	-356.60	1,059.85	1.99	-1.79	2.63

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 33C-23-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	GL @ 5943.00ft (Original Well Elev)
Site:	Werner Pad	MD Reference:	GL @ 5943.00ft (Original Well Elev)
Well:	Werner 33C-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

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)	
4,367.00	15.100	342.30	4,173.75	1,024.82	-364.96	1,087.37	3.33	-3.33	-0.10	
4,462.00	14.100	342.70	4,265.68	1,047.66	-372.16	1,111.27	1.06	-1.05	0.42	
4,557.00	12.100	340.90	4,358.20	1,068.12	-378.86	1,132.76	2.15	-2.11	-1.89	
4,652.00	12.300	338.00	4,451.06	1,086.91	-385.91	1,152.83	0.68	0.21	-3.05	
4,748.00	12.000	335.80	4,544.91	1,105.49	-393.83	1,173.02	0.57	-0.31	-2.29	
4,843.00	11.800	333.50	4,637.87	1,123.19	-402.22	1,192.56	0.54	-0.21	-2.42	
4,939.00	10.500	335.00	4,732.05	1,139.91	-410.29	1,211.06	1.39	-1.35	1.56	
5,034.00	9.100	330.70	4,825.67	1,154.30	-417.63	1,227.14	1.66	-1.47	-4.53	
5,129.00	7.300	329.20	4,919.69	1,166.04	-424.40	1,240.54	1.91	-1.89	-1.58	
5,224.00	5.900	338.40	5,014.06	1,175.77	-429.28	1,251.37	1.84	-1.47	9.68	
5,320.00	5.300	333.00	5,109.60	1,184.30	-433.11	1,260.72	0.83	-0.63	-5.63	
5,415.00	4.600	323.50	5,204.25	1,191.28	-437.37	1,268.76	1.13	-0.74	-10.00	
5,510.00	3.700	324.90	5,299.00	1,196.85	-441.40	1,275.42	0.95	-0.95	1.47	
5,606.00	2.600	321.60	5,394.85	1,201.09	-444.53	1,280.51	1.16	-1.15	-3.44	
5,701.00	3.100	307.00	5,489.74	1,204.32	-447.92	1,284.75	0.92	0.53	-15.37	
5,796.00	2.800	295.20	5,584.61	1,206.85	-452.07	1,288.62	0.71	-0.32	-12.42	
5,892.00	2.400	325.40	5,680.52	1,209.51	-455.34	1,292.28	1.47	-0.42	31.46	
5,987.00	1.700	312.70	5,775.46	1,212.10	-457.50	1,295.49	0.87	-0.74	-13.37	
6,083.00	2.500	331.90	5,871.39	1,214.91	-459.54	1,298.84	1.10	0.83	20.00	
6,178.00	2.100	316.60	5,966.32	1,218.01	-461.71	1,302.51	0.77	-0.42	-16.11	
6,273.00	1.400	305.90	6,061.27	1,219.95	-463.84	1,305.10	0.81	-0.74	-11.26	
6,368.00	1.100	292.00	6,156.25	1,220.97	-465.63	1,306.71	0.45	-0.32	-14.63	
6,464.00	0.800	256.00	6,252.24	1,221.16	-467.13	1,307.42	0.68	-0.31	-37.50	
6,559.00	1.300	205.90	6,347.22	1,220.03	-468.25	1,306.78	1.05	0.53	-52.74	
6,654.00	0.900	192.60	6,442.21	1,218.33	-468.88	1,305.42	0.50	-0.42	-14.00	
6,749.00	1.100	164.70	6,537.19	1,216.72	-468.80	1,303.90	0.55	0.21	-29.37	
6,844.00	1.600	155.40	6,632.16	1,214.64	-468.01	1,301.67	0.57	0.53	-9.79	
6,939.00	1.500	147.90	6,727.13	1,212.38	-466.80	1,299.12	0.24	-0.11	-7.89	
7,034.00	1.300	158.90	6,822.10	1,210.32	-465.75	1,296.82	0.35	-0.21	11.58	
7,129.00	0.600	193.80	6,917.09	1,208.83	-465.48	1,295.34	0.92	-0.74	36.74	
7,225.00	1.500	88.00	7,013.08	1,208.38	-464.34	1,294.51	1.83	0.94	-110.21	
7,320.00	1.900	131.90	7,108.04	1,207.38	-461.93	1,292.69	1.39	0.42	46.21	
7,415.00	1.400	164.50	7,203.00	1,205.21	-460.45	1,290.13	1.10	-0.53	34.32	
7,511.00	2.100	263.50	7,298.97	1,203.88	-461.88	1,289.42	2.81	0.73	103.13	
7,606.00	2.000	266.90	7,393.91	1,203.59	-465.27	1,290.38	0.17	-0.11	3.58	
7,701.00	1.800	261.60	7,488.86	1,203.28	-468.40	1,291.23	0.28	-0.21	-5.58	
7,796.00	1.500	258.70	7,583.82	1,202.82	-471.09	1,291.78	0.33	-0.32	-3.05	
7,838.00	1.300	253.70	7,625.81	1,202.58	-472.09	1,291.92	0.56	-0.48	-11.90	
7,885.00	1.300	253.70	7,672.80	1,202.28	-473.11	1,292.01	0.00	0.00	0.00	

Sharewell
Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 33C-23-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	GL @ 5943.00ft (Original Well Elev)
Site:	Werner Pad	MD Reference:	GL @ 5943.00ft (Original Well Elev)
Well:	Werner 33C-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
750.00	750.00	0.62	0.00	End of Gyros
5,224.00	5,014.06	1,175.77	-429.28	As of Feb 14
6,559.00	6,347.22	1,220.03	-468.25	As of Feb 15
7,885.00	7,672.80	1,202.28	-473.11	Projected TD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------