

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Werner Pad

Werner 43B-23-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

07 February, 2012

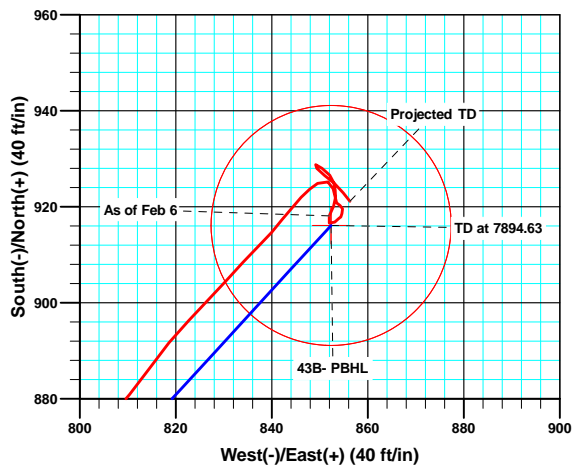
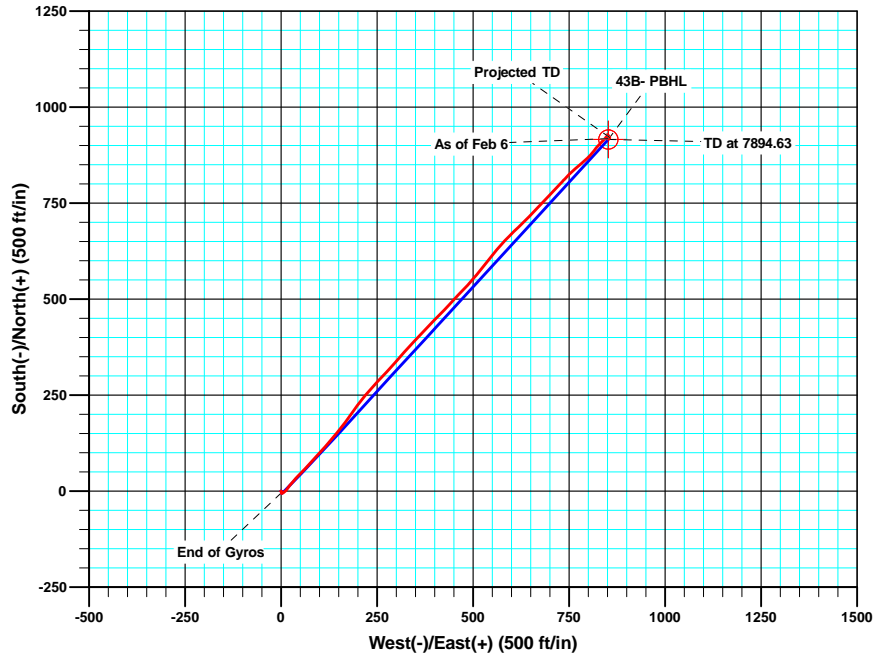
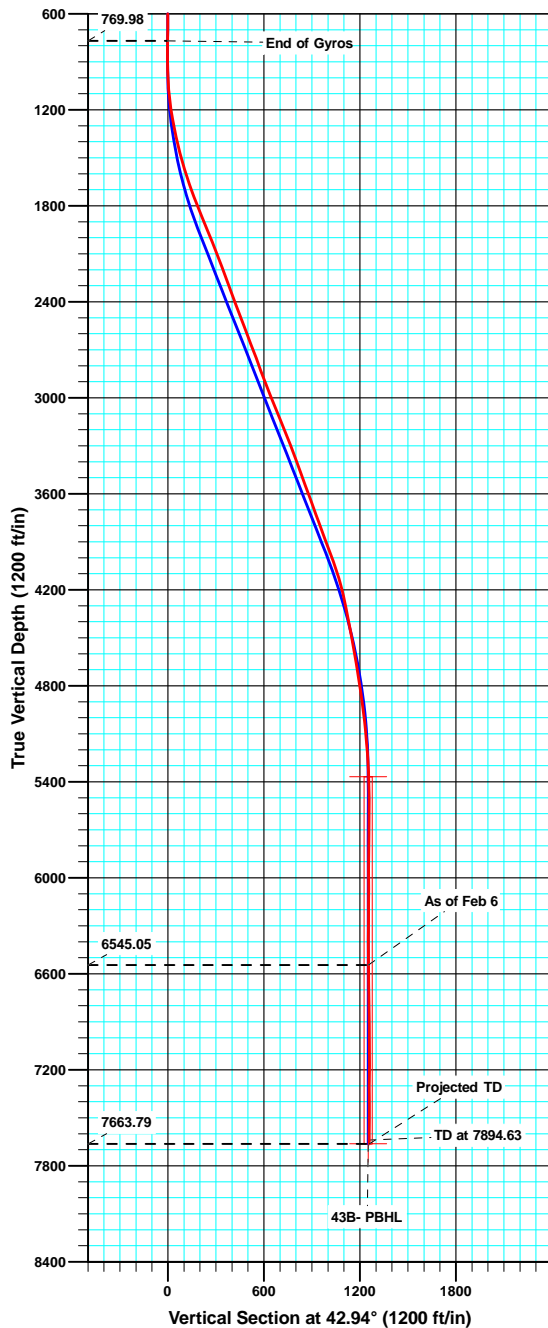


WELL DETAILS: Werner 43B-23-692

US State Plane 1983 North American Datum 1983 Colorado Central Zone

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1616880.84 2399006.53 39° 30' 27.98 N 107° 37' 48.79 W

Ground Level: 5943.00 KB: 23'



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 M
 Azimuths to True North
 Magnetic North: 10.28°
 Magnetic Field
 Strength: 52372.8nT
 Dip Angle: 65.84°
 Date: 10/12/2010
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
769.98	770.00	0.530	168.09	-4.01	1.07	-2.20	5.16	End of Gyros
6545.05	6749.00	1.400	25.50	918.09	851.98	1252.50	1285.31	As of Feb 6
7663.79	7868.00	1.800	141.70	921.15	856.26	1257.65	1309.15	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 43B-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 43B-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 43B-23-692				
Well Position	+N/-S	0.00 ft	Northing:	1,616,880.84 usft	Latitude:	39° 30' 27.98 N
	+E/-W	0.00 ft	Easting:	2,399,006.53 usft	Longitude:	107° 37' 48.79 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	42.94	

Survey Program	Date	2/7/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	770.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
855.00	7,868.00	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	0.160	352.30	50.00	0.07	-0.01	0.04	0.32	0.32	0.00	
100.00	0.280	107.83	100.00	0.10	0.10	0.14	0.76	0.24	231.06	
150.00	0.490	155.99	150.00	-0.13	0.30	0.11	0.74	0.42	96.32	
200.00	0.260	206.18	200.00	-0.43	0.34	-0.08	0.76	-0.46	100.38	
250.00	0.450	147.91	250.00	-0.70	0.39	-0.24	0.77	0.38	-116.54	
300.00	0.310	185.15	300.00	-1.00	0.48	-0.40	0.55	-0.28	74.48	
350.00	0.360	112.07	350.00	-1.19	0.62	-0.45	0.80	0.10	-146.16	
400.00	0.510	174.56	399.99	-1.47	0.78	-0.54	0.94	0.30	124.98	
450.00	0.260	84.00	449.99	-1.68	0.92	-0.61	1.15	-0.50	-181.12	

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Site:	Werner Pad	MD Reference:	GL @ 5943.00ft (Original Well Elev)
Well:	Werner 43B-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	0.610	167.93	499.99	-1.93	1.09	-0.67	1.27	0.70	167.86
550.00	0.360	207.96	549.99	-2.33	1.07	-0.98	0.81	-0.50	80.06
600.00	0.450	162.68	599.99	-2.66	1.05	-1.23	0.65	0.18	-90.56
650.00	0.350	203.36	649.99	-2.98	1.05	-1.47	0.59	-0.20	81.36
700.00	0.640	163.27	699.99	-3.39	1.07	-1.75	0.87	0.58	-80.18
750.00	0.450	200.55	749.98	-3.84	1.08	-2.08	0.78	-0.38	74.56
770.00	0.530	168.09	769.98	-4.01	1.07	-2.20	1.42	0.40	-162.30
855.00	0.900	172.80	854.98	-5.05	1.24	-2.86	0.44	0.44	5.54
947.00	1.400	96.50	946.96	-5.90	2.45	-2.65	1.60	0.54	-82.93
1,039.00	4.400	54.60	1,038.84	-3.98	6.44	1.47	3.79	3.26	-45.54
1,132.00	6.900	40.80	1,131.39	2.32	13.00	10.55	3.04	2.69	-14.84
1,227.00	9.000	35.00	1,225.47	12.72	20.99	23.62	2.36	2.21	-6.11
1,322.00	11.500	41.70	1,318.95	25.88	31.56	40.45	2.91	2.63	7.05
1,417.00	13.100	44.50	1,411.77	40.64	45.40	60.68	1.80	1.68	2.95
1,513.00	15.500	42.60	1,504.79	57.84	61.71	84.38	2.55	2.50	-1.98
1,608.00	17.400	42.50	1,595.89	77.66	79.90	111.28	2.00	2.00	-0.11
1,703.00	19.500	42.80	1,686.00	99.77	100.28	141.35	2.21	2.21	0.32
1,798.00	21.600	40.80	1,774.96	124.64	122.48	174.68	2.33	2.21	-2.11
1,893.00	21.900	39.00	1,863.19	151.65	145.05	209.83	0.77	0.32	-1.89
1,989.00	22.100	37.20	1,952.20	179.95	167.24	245.66	0.73	0.21	-1.88
2,084.00	22.600	35.00	2,040.07	209.13	188.51	281.52	1.03	0.53	-2.32
2,179.00	21.500	37.60	2,128.12	237.88	209.61	316.94	1.55	-1.16	2.74
2,274.00	20.000	43.30	2,216.97	263.50	231.37	350.52	2.65	-1.58	6.00
2,369.00	19.700	42.80	2,306.32	287.07	253.39	382.78	0.36	-0.32	-0.53
2,464.00	21.100	42.70	2,395.36	311.39	275.87	415.89	1.47	1.47	-0.11
2,559.00	21.100	41.50	2,483.99	336.76	298.80	450.09	0.45	0.00	-1.26
2,654.00	20.400	40.70	2,572.83	362.12	320.93	483.72	0.79	-0.74	-0.84
2,749.00	21.300	43.50	2,661.61	387.19	343.60	517.52	1.41	0.95	2.95
2,845.00	20.700	43.70	2,751.23	412.11	367.33	551.93	0.63	-0.63	0.21
2,940.00	19.700	43.30	2,840.39	435.90	389.91	584.73	1.06	-1.05	-0.42
3,035.00	20.900	44.70	2,929.49	459.60	412.81	617.68	1.36	1.26	1.47
3,130.00	22.000	43.00	3,017.91	484.66	436.86	652.41	1.33	1.16	-1.79
3,225.00	22.100	44.10	3,105.96	510.50	461.44	688.07	0.45	0.11	1.16
3,320.00	22.700	41.90	3,193.79	536.98	486.12	724.27	1.09	0.63	-2.32
3,415.00	21.700	39.90	3,281.75	564.10	509.62	760.13	1.32	-1.05	-2.11
3,510.00	19.900	37.80	3,370.56	590.35	530.80	793.78	2.05	-1.89	-2.21
3,605.00	20.000	39.50	3,459.86	615.66	551.04	826.10	0.62	0.11	1.79
3,700.00	20.400	41.00	3,549.01	640.70	572.24	858.86	0.69	0.42	1.58
3,795.00	20.400	44.90	3,638.06	664.92	594.79	891.96	1.43	0.00	4.11
3,890.00	19.200	46.40	3,727.44	687.42	617.79	924.10	1.37	-1.26	1.58
3,986.00	20.400	45.10	3,817.76	710.12	641.08	956.58	1.33	1.25	-1.35
4,081.00	21.400	43.00	3,906.51	734.48	664.63	990.46	1.32	1.05	-2.21
4,176.00	19.500	43.90	3,995.52	758.59	687.44	1,023.64	2.03	-2.00	0.95

Sharewell

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Design:	Wellbore #1	Database:	CompassVM

Survey									
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4,271.00	18.100	43.40	4,085.45	780.73	708.58	1,054.26	1.48	-1.47	-0.53
4,367.00	15.300	42.50	4,177.39	800.91	727.38	1,081.84	2.93	-2.92	-0.94
4,462.00	11.800	44.80	4,269.74	817.05	742.70	1,104.09	3.73	-3.68	2.42
4,557.00	10.800	46.10	4,362.89	830.11	755.96	1,122.68	1.09	-1.05	1.37
4,653.00	10.400	48.10	4,457.26	842.14	768.89	1,140.30	0.57	-0.42	2.08
4,748.00	11.000	49.70	4,550.60	853.73	782.18	1,157.84	0.70	0.63	1.68
4,843.00	9.200	48.90	4,644.13	864.58	794.82	1,174.39	1.90	-1.89	-0.84
4,939.00	9.100	41.60	4,738.91	875.30	805.64	1,189.61	1.21	-0.10	-7.60
5,034.00	8.200	35.50	4,832.83	886.44	814.57	1,203.84	1.35	-0.95	-6.42
5,129.00	7.300	44.10	4,926.96	896.29	822.70	1,216.60	1.54	-0.95	9.05
5,224.00	6.500	41.90	5,021.28	904.63	830.49	1,228.01	0.89	-0.84	-2.32
5,320.00	5.200	45.00	5,116.77	911.75	837.20	1,237.79	1.39	-1.35	3.23
5,415.00	3.900	36.50	5,211.47	917.39	842.16	1,245.30	1.54	-1.37	-8.95
5,510.00	3.400	45.10	5,306.28	921.97	846.08	1,251.33	0.78	-0.53	9.05
5,606.00	2.000	58.80	5,402.17	924.85	849.53	1,255.78	1.60	-1.46	14.27
5,701.00	1.100	126.80	5,497.14	925.16	851.68	1,257.47	1.99	-0.95	71.58
5,796.00	1.100	154.80	5,592.13	923.79	852.80	1,257.23	0.56	0.00	29.47
5,892.00	1.100	179.30	5,688.11	922.04	853.20	1,256.22	0.49	0.00	25.52
5,987.00	0.500	136.10	5,783.10	920.83	853.50	1,255.54	0.85	-0.63	-45.47
6,083.00	0.600	124.00	5,879.10	920.24	854.21	1,255.59	0.16	0.10	-12.60
6,178.00	0.500	161.50	5,974.09	919.57	854.75	1,255.47	0.39	-0.11	39.47
6,273.00	0.800	203.80	6,069.09	918.57	854.62	1,254.65	0.57	0.32	44.53
6,369.00	0.100	160.30	6,165.08	917.88	854.37	1,253.98	0.76	-0.73	-45.31
6,464.00	0.500	241.90	6,260.08	917.61	854.04	1,253.55	0.52	0.42	85.89
6,559.00	1.000	224.10	6,355.07	916.82	853.09	1,252.33	0.57	0.53	-18.74
6,654.00	0.800	308.40	6,450.07	916.63	852.00	1,251.44	1.28	-0.21	88.74
6,749.00	1.400	25.50	6,545.05	918.09	851.98	1,252.50	1.53	0.63	81.16
6,844.00	1.300	20.30	6,640.03	920.15	852.85	1,254.60	0.17	-0.11	-5.47
6,939.00	1.000	2.60	6,735.01	921.99	853.26	1,256.23	0.49	-0.32	-18.63
7,034.00	0.800	353.70	6,829.99	923.48	853.23	1,257.29	0.26	-0.21	-9.37
7,130.00	1.100	345.40	6,925.98	925.03	852.92	1,258.22	0.34	0.31	-8.65
7,225.00	1.100	315.70	7,020.96	926.57	852.05	1,258.76	0.59	0.00	-31.26
7,320.00	1.500	309.40	7,115.94	928.01	850.46	1,258.73	0.45	0.42	-6.63
7,416.00	0.400	264.00	7,211.93	928.77	849.15	1,258.40	1.30	-1.15	-47.29
7,511.00	1.100	143.10	7,306.92	928.01	849.37	1,257.98	1.42	0.74	-127.26
7,606.00	1.600	125.10	7,401.89	926.52	851.00	1,258.00	0.68	0.53	-18.95
7,702.00	1.500	132.20	7,497.86	924.90	853.03	1,258.20	0.23	-0.10	7.40
7,797.00	1.800	141.70	7,592.82	922.90	854.87	1,257.99	0.43	0.32	10.00
7,868.00	1.800	141.70	7,663.79	921.15	856.26	1,257.65	0.00	0.00	0.00

Sharewell
Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 43B-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 43B-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
770.00	769.98	-4.01	1.07	End of Gyros
6,749.00	6,545.05	918.09	851.98	As of Feb 6
7,868.00	7,663.79	921.15	856.26	Projected TD

Checked By: _____	Approved By: _____	Date: _____
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