

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Werner Pad

Werner 44C-23-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

20 January, 2012

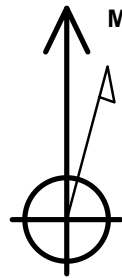
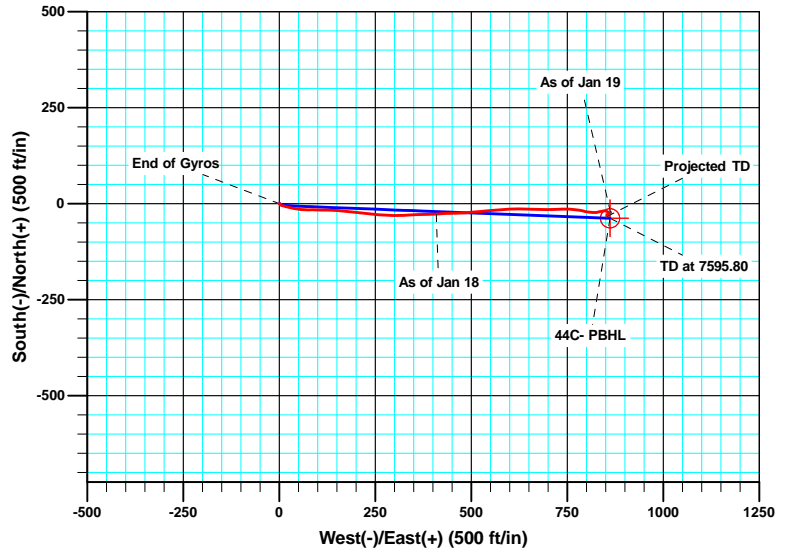
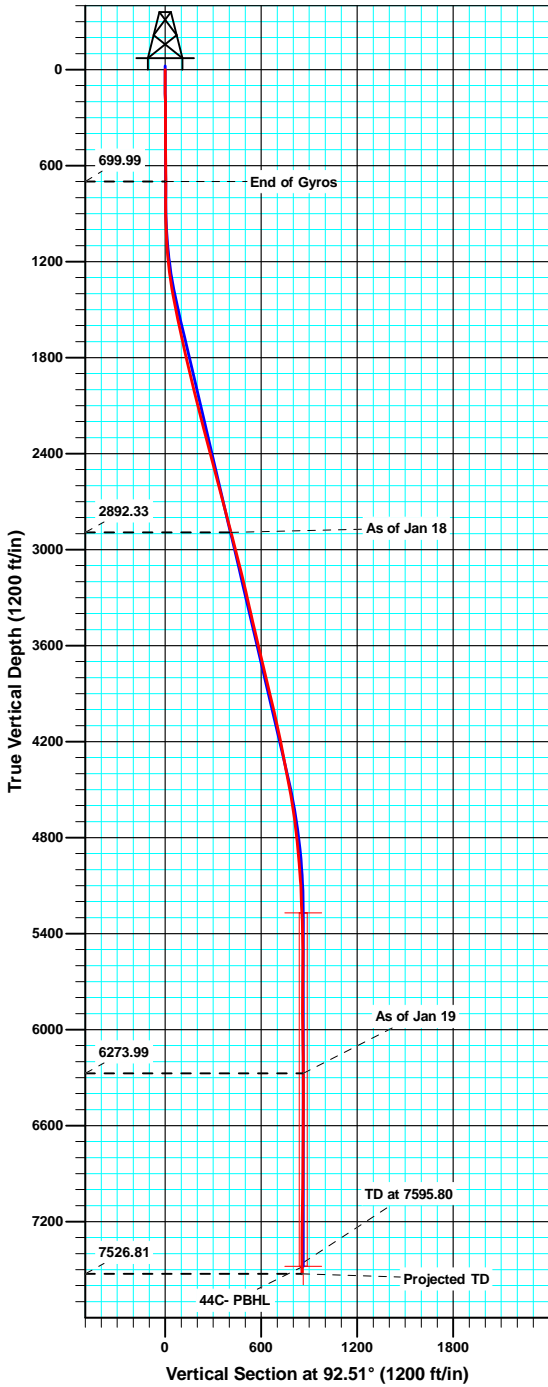


WELL DETAILS: Werner 44C-23-692

US State Plane 1983 North American Datum 1983 Colorado Central Zone

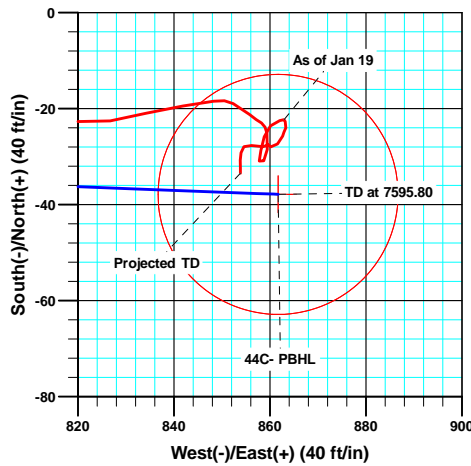
+N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1616848.79 2399006.06 39° 30' 27.66 N 107° 37' 48.79 W

Ground Level: 5943.00 KB: 23'



Azimuths to True North
 Magnetic North: 10.28°

Magnetic Field
 Strength: 52372.8snT
 Dip Angle: 65.84°
 Date: 10/12/2010
 Model: IGRF2010



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
699.99	700.00	0.460	161.40	-0.95	2.80	2.84	3.80	End of Gyros
2892.33	2939.00	14.100	88.10	-26.53	409.12	409.89	414.76	As of Jan 18
6273.99	6368.00	0.100	50.30	-22.26	862.94	863.09	888.74	As of Jan 19
7526.81	7621.00	1.400	182.00	-33.41	853.84	854.48	909.63	Projected TD



Sharewell Survey Report

Company: Bill Barrett Corp. (II)	Local Co-ordinate Reference: Well Werner 44C-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 44C-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 44C-23-692			
Well Position +N/-S 0.00 ft	Northing: 1,616,848.78 usft	Latitude:	39° 30' 27.66 N
+E/-W 0.00 ft	Easting: 2,399,006.06 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	92.51

Survey Program		Date 1/20/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
50.00	700.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard
855.00	7,621.00	MWD (Wellbore #1)	MWD	MWD - Standard

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	0.280	7.14	50.00	0.12	0.02	0.01	0.56	0.56	0.00
100.00	0.290	22.75	100.00	0.36	0.08	0.06	0.16	0.02	31.22
150.00	0.240	80.03	150.00	0.49	0.23	0.21	0.52	-0.10	114.56
200.00	0.220	110.79	200.00	0.48	0.42	0.40	0.25	-0.04	61.52
250.00	0.160	143.23	250.00	0.39	0.56	0.54	0.24	-0.12	64.88
300.00	0.250	163.31	300.00	0.23	0.63	0.62	0.23	0.18	40.16
350.00	0.370	98.82	350.00	0.10	0.82	0.81	0.69	0.24	-128.98
400.00	0.400	120.77	400.00	-0.02	1.13	1.13	0.30	0.06	43.90
450.00	0.460	98.18	449.99	-0.13	1.48	1.48	0.36	0.12	-45.18

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Site:	Werner Pad	MD Reference:	GL @ 5943.00ft (Original Well Elev)
Well:	Werner 44C-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	0.340	117.73	499.99	-0.23	1.81	1.82	0.36	-0.24	39.10
550.00	0.140	166.06	549.99	-0.36	1.95	1.97	0.54	-0.40	96.66
600.00	0.580	106.11	599.99	-0.49	2.21	2.23	1.05	0.88	-119.90
650.00	0.400	125.91	649.99	-0.66	2.60	2.62	0.49	-0.36	39.60
700.00	0.460	161.40	699.99	-0.95	2.80	2.84	0.54	0.12	70.98
855.00	0.300	268.80	854.99	-1.55	2.59	2.66	0.40	-0.10	69.29
945.00	2.100	127.30	944.97	-2.56	3.67	3.78	2.60	2.00	-157.22
1,037.00	2.500	113.20	1,036.90	-4.37	6.86	7.04	0.75	0.43	-15.33
1,131.00	4.800	105.00	1,130.70	-6.19	12.54	12.80	2.50	2.45	-8.72
1,226.00	6.500	102.00	1,225.23	-8.34	21.64	21.98	1.82	1.79	-3.16
1,323.00	8.400	103.40	1,321.41	-11.12	33.90	34.36	1.97	1.96	1.44
1,417.00	10.100	98.50	1,414.19	-13.93	48.74	49.30	1.99	1.81	-5.21
1,512.00	11.900	92.50	1,507.44	-15.59	66.76	67.38	2.24	1.89	-6.32
1,608.00	12.300	89.80	1,601.31	-15.99	86.87	87.49	0.72	0.42	-2.81
1,703.00	12.500	92.20	1,694.09	-16.35	107.27	107.88	0.58	0.21	2.53
1,798.00	12.000	88.50	1,786.93	-16.48	127.41	128.01	0.98	-0.53	-3.89
1,893.00	12.900	95.10	1,879.70	-17.17	147.85	148.46	1.77	0.95	6.95
1,988.00	14.500	95.50	1,971.99	-19.25	170.25	170.93	1.69	1.68	0.42
2,084.00	13.700	96.40	2,065.10	-21.67	193.51	194.28	0.86	-0.83	0.94
2,179.00	15.100	95.50	2,157.11	-24.11	217.01	217.86	1.49	1.47	-0.95
2,272.00	14.200	97.30	2,247.09	-26.72	240.38	241.32	1.08	-0.97	1.94
2,367.00	15.000	94.30	2,339.02	-29.12	264.20	265.22	1.16	0.84	-3.16
2,462.00	14.800	90.10	2,430.83	-30.07	288.59	289.64	1.16	-0.21	-4.42
2,559.00	14.800	90.10	2,524.61	-30.11	313.37	314.39	0.00	0.00	0.00
2,652.00	14.900	86.10	2,614.51	-29.32	337.18	338.14	1.11	0.11	-4.30
2,749.00	14.900	89.80	2,708.25	-28.43	362.09	362.99	0.98	0.00	3.81
2,842.00	14.200	86.40	2,798.27	-27.67	385.44	386.28	1.19	-0.75	-3.66
2,939.00	14.100	88.10	2,892.33	-26.53	409.12	409.89	0.44	-0.10	1.75
3,034.00	14.300	86.20	2,984.42	-25.37	432.39	433.09	0.53	0.21	-2.00
3,129.00	14.900	90.10	3,076.36	-24.61	456.31	456.95	1.21	0.63	4.11
3,224.00	14.700	85.30	3,168.21	-23.65	480.54	481.11	1.31	-0.21	-5.05
3,319.00	13.100	85.90	3,260.43	-21.89	503.29	503.77	1.69	-1.68	0.63
3,415.00	12.100	84.20	3,354.11	-20.09	524.15	524.53	1.11	-1.04	-1.77
3,510.00	13.400	85.50	3,446.77	-18.22	545.04	545.31	1.40	1.37	1.37
3,605.00	13.900	85.30	3,539.08	-16.42	567.38	567.56	0.53	0.53	-0.21
3,700.00	12.800	86.70	3,631.52	-14.88	589.26	589.35	1.21	-1.16	1.47
3,795.00	13.200	86.80	3,724.08	-13.67	610.60	610.61	0.42	0.42	0.11
3,890.00	14.000	90.80	3,816.42	-13.23	632.92	632.89	1.30	0.84	4.21
3,985.00	14.000	93.30	3,908.60	-14.05	655.88	655.87	0.64	0.00	2.63
4,080.00	12.500	91.00	4,001.07	-14.89	677.63	677.63	1.67	-1.58	-2.42
4,176.00	11.700	89.70	4,094.93	-15.02	697.76	697.74	0.88	-0.83	-1.35
4,271.00	12.700	88.30	4,187.79	-14.66	717.83	717.78	1.10	1.05	-1.47
4,366.00	10.800	86.80	4,280.79	-13.85	737.15	737.05	2.03	-2.00	-1.58

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Werner 44C-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 44C-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)	
4,462.00	10.500	93.90	4,375.14	-13.95	754.86	754.75	1.40	-0.31	7.40	
4,557.00	10.900	96.80	4,468.49	-15.60	772.42	772.36	0.71	0.42	3.05	
4,652.00	9.800	103.00	4,561.95	-18.48	789.21	789.27	1.65	-1.16	6.53	
4,748.00	8.000	98.10	4,656.79	-21.26	803.79	803.95	2.03	-1.88	-5.10	
4,843.00	7.500	94.60	4,750.92	-22.69	816.51	816.72	0.72	-0.53	-3.68	
4,938.00	4.900	80.60	4,845.36	-22.52	826.70	826.89	3.15	-2.74	-14.74	
5,034.00	4.300	75.30	4,941.05	-20.94	834.23	834.34	0.77	-0.63	-5.52	
5,129.00	5.100	81.80	5,035.73	-19.43	841.85	841.89	1.01	0.84	6.84	
5,222.00	2.900	79.50	5,128.50	-18.42	848.26	848.25	2.37	-2.37	-2.47	
5,319.00	2.300	120.50	5,225.41	-18.96	852.35	852.36	1.96	-0.62	42.27	
5,415.00	2.500	126.80	5,321.33	-21.19	855.68	855.79	0.34	0.21	6.56	
5,510.00	1.300	121.50	5,416.27	-22.99	858.26	858.44	1.28	-1.26	-5.58	
5,605.00	1.900	173.20	5,511.24	-25.12	859.37	859.64	1.57	0.63	54.42	
5,701.00	2.100	183.10	5,607.18	-28.46	859.46	859.88	0.42	0.21	10.31	
5,796.00	1.100	226.70	5,702.15	-30.82	858.70	859.23	1.59	-1.05	45.89	
5,891.00	0.700	335.80	5,797.14	-30.92	857.80	858.33	1.56	-0.42	114.84	
5,987.00	2.100	18.00	5,893.11	-28.71	858.10	858.54	1.72	1.46	43.96	
6,082.00	1.500	8.20	5,988.06	-25.82	858.82	859.12	0.71	-0.63	-10.32	
6,177.00	1.800	48.30	6,083.03	-23.60	860.11	860.32	1.23	0.32	42.21	
6,273.00	1.000	80.10	6,179.00	-22.45	862.06	862.22	1.13	-0.83	33.13	
6,368.00	0.100	50.30	6,273.99	-22.26	862.94	863.09	0.96	-0.95	-31.37	
6,463.00	0.600	159.00	6,368.99	-22.67	863.18	863.35	0.67	0.53	114.42	
6,559.00	1.000	184.90	6,464.98	-23.97	863.29	863.51	0.55	0.42	26.98	
6,654.00	0.400	248.50	6,559.97	-24.92	862.91	863.17	0.94	-0.63	66.95	
6,749.00	0.800	176.20	6,654.97	-25.70	862.65	862.94	0.82	0.42	-76.11	
6,844.00	1.800	228.40	6,749.95	-27.36	861.58	861.95	1.53	1.05	54.95	
6,939.00	0.600	324.40	6,844.93	-27.94	860.17	860.57	2.06	-1.26	101.05	
7,034.00	0.200	272.20	6,939.93	-27.53	859.71	860.10	0.53	-0.42	-54.95	
7,130.00	1.300	249.30	7,035.92	-27.91	858.53	858.93	1.17	1.15	-23.85	
7,225.00	1.800	295.00	7,130.89	-27.66	856.17	856.56	1.36	0.53	48.11	
7,320.00	1.100	196.10	7,225.87	-27.91	854.56	854.96	2.37	-0.74	-104.11	
7,415.00	0.600	218.80	7,320.86	-29.17	854.00	854.46	0.62	-0.53	23.89	
7,511.00	1.400	173.50	7,416.84	-30.73	853.82	854.34	1.11	0.83	-47.19	
7,576.00	1.400	182.00	7,481.82	-32.31	853.88	854.47	0.32	0.00	13.08	
7,621.00	1.400	182.00	7,526.81	-33.41	853.84	854.48	0.00	0.00	0.00	

Sharewell Survey Report

Company: Bill Barrett Corp. (II)	Local Co-ordinate Reference: Well Werner 44C-23-692
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Site: Werner Pad	MD Reference: GL @ 5943.00ft (Original Well Elev)
Well: Werner 44C-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)	
700.00	699.99	-0.95	2.80	End of Gyros
2,939.00	2,892.33	-26.53	409.12	As of Jan 18
6,368.00	6,273.99	-22.26	862.94	As of Jan 19
7,621.00	7,526.81	-33.41	853.84	Projected TD

Checked By: _____ Approved By: _____ Date: _____