

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Circle B Tract 5 Pad

CBS 31D-21-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

30 January, 2012



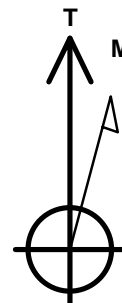
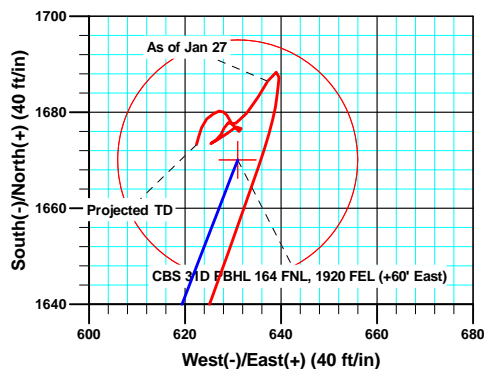
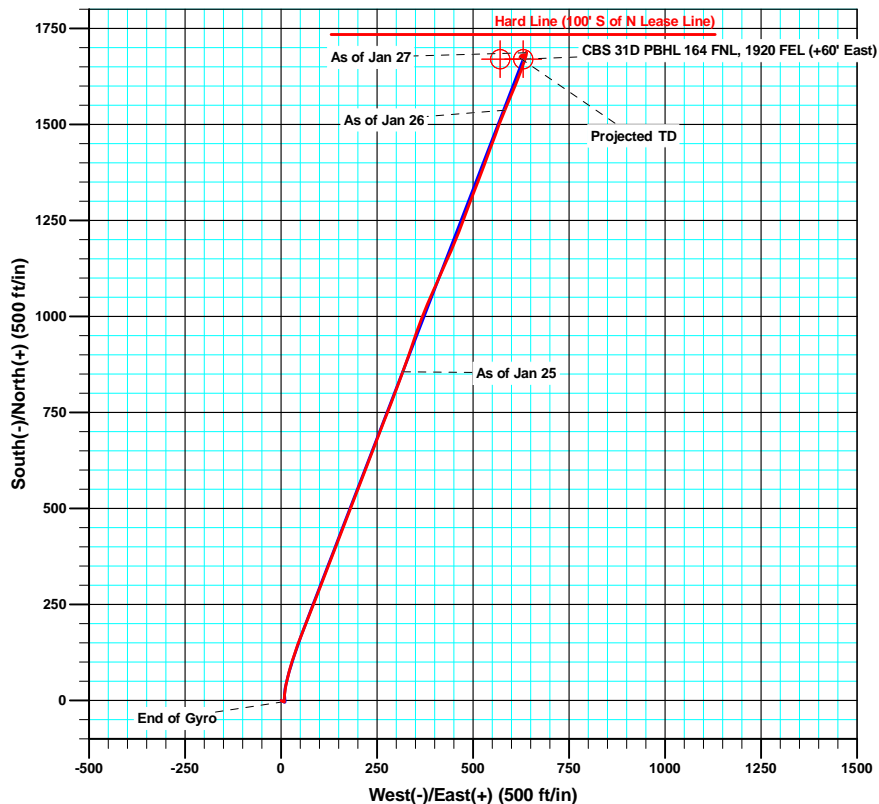
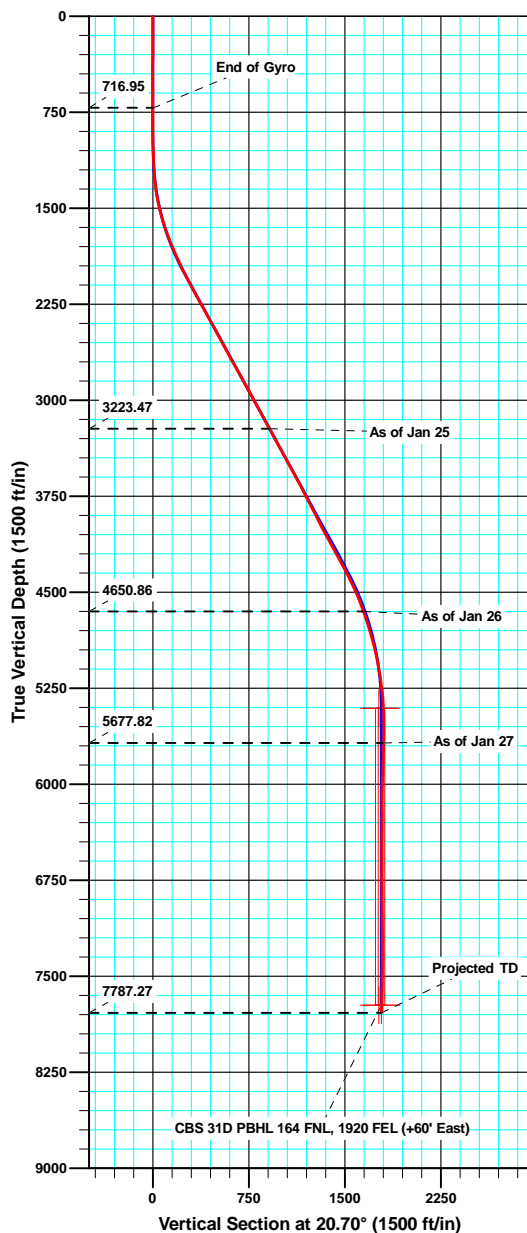
Bill Barrett Corporation

WELL DETAILS: CBS 31D-21-692

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1619646.27 2387433.60 39° 30' 52.59 N 107° 40' 17.25 W

Ground Level: 5743.50



Azimuths to True North
Magnetic North: 10.23°

Magnetic Field
Strength: 52318.3snT
Dip Angle: 65.82°
Date: 4/26/2011
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
716.95	717.00	0.770	110.30	-3.33	7.04	-0.63	7.85	End of Gyro
3223.47	3436.00	28.700	19.80	856.38	317.41	913.29	926.23	As of Jan 25
4650.86	5041.00	19.500	22.60	1537.34	583.06	1644.19	1657.48	As of Jan 26
5677.82	6087.00	2.100	218.80	1686.52	637.23	1802.89	1822.96	As of Jan 27
7787.27	8197.00	1.800	196.40	1673.27	622.40	1785.25	1868.19	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well CBS 31D-21-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5767.00ft
Site:	Circle B Tract 5 Pad	MD Reference:	KB @ 5767.00ft
Well:	CBS 31D-21-692	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	Circle B Tract 5 Pad				
Site Position:		Northing:	1,619,626.42 usft	Latitude:	39° 30' 52.41 N
From:	Lat/Long	Easting:	2,387,502.83 usft	Longitude:	107° 40' 16.36 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.37 °

Well	CBS 31D-21-692					
Well Position	+N/-S	0.00 ft	Northing:	1,619,646.27 usft	Latitude:	39° 30' 52.59 N
	+E/-W	0.00 ft	Easting:	2,387,433.60 usft	Longitude:	107° 40' 17.25 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,743.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/26/2011	10.23	65.82	52,318

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	20.70	

Survey Program	Date	1/30/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	717.00	Survey #1 (Wellbore #1)	Gyro	Gyro	
877.00	8,197.00	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	
100.00	0.620	108.63	100.00	-0.17	0.51	0.02	0.62	0.62	0.00	
200.00	0.720	130.09	199.99	-0.75	1.51	-0.17	0.27	0.10	21.46	
300.00	0.800	117.07	299.98	-1.47	2.61	-0.46	0.19	0.08	-13.02	
400.00	0.760	110.76	399.97	-2.03	3.85	-0.53	0.09	-0.04	-6.31	
500.00	0.660	117.54	499.97	-2.53	4.98	-0.60	0.13	-0.10	6.78	
600.00	0.400	109.80	599.96	-2.91	5.82	-0.67	0.27	-0.26	-7.74	
700.00	0.810	108.74	699.96	-3.26	6.82	-0.64	0.41	0.41	-1.06	
717.00	0.770	110.30	716.96	-3.33	7.04	-0.63	0.27	-0.24	9.18	
877.00	0.600	91.10	876.94	-3.72	8.88	-0.34	0.18	-0.11	-12.00	

Sharewell

Survey Report

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Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5767.00ft
Site:	Circle B Tract 5 Pad	MD Reference:	KB @ 5767.00ft
Well:	CBS 31D-21-692	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)
970.00	0.900	353.50	969.94	-3.01	9.29	0.47	1.23	0.32	-104.95
1,064.00	1.500	345.60	1,063.92	-1.08	8.90	2.13	0.66	0.64	-8.40
1,159.00	3.300	4.80	1,158.83	2.85	8.82	5.78	2.05	1.89	20.21
1,254.00	5.000	3.60	1,253.58	9.70	9.31	12.37	1.79	1.79	-1.26
1,349.00	8.200	3.00	1,347.94	20.60	9.92	22.78	3.37	3.37	-0.63
1,443.00	10.900	11.30	1,440.63	36.02	12.02	37.94	3.22	2.87	8.83
1,538.00	14.400	13.50	1,533.31	56.32	16.53	58.53	3.72	3.68	2.32
1,633.00	18.200	15.20	1,624.47	82.13	23.18	85.02	4.03	4.00	1.79
1,729.00	20.700	18.50	1,714.99	112.69	32.50	116.91	2.84	2.60	3.44
1,823.00	22.900	18.30	1,802.26	145.82	43.52	151.79	2.34	2.34	-0.21
1,918.00	24.600	23.00	1,889.22	181.57	57.05	190.02	2.68	1.79	4.95
2,014.00	25.600	20.90	1,976.16	219.34	72.25	230.72	1.39	1.04	-2.19
2,109.00	27.100	21.80	2,061.29	258.61	87.61	272.88	1.63	1.58	0.95
2,204.00	29.000	21.30	2,145.12	300.16	104.02	317.55	2.02	2.00	-0.53
2,299.00	29.200	21.30	2,228.13	343.21	120.80	363.75	0.21	0.21	0.00
2,393.00	28.500	21.90	2,310.46	385.38	137.49	409.10	0.81	-0.74	0.64
2,488.00	29.300	20.70	2,393.63	428.15	154.16	455.01	1.04	0.84	-1.26
2,583.00	28.900	20.40	2,476.64	471.42	170.38	501.21	0.45	-0.42	-0.32
2,678.00	28.700	20.80	2,559.89	514.26	186.48	546.97	0.29	-0.21	0.42
2,772.00	28.000	20.80	2,642.62	555.98	202.33	591.61	0.74	-0.74	0.00
2,867.00	29.400	21.50	2,725.94	598.53	218.80	637.23	1.52	1.47	0.74
2,962.00	28.400	20.90	2,809.11	641.33	235.41	683.14	1.10	-1.05	-0.63
3,056.00	28.800	21.20	2,891.64	683.32	251.57	728.13	0.45	0.43	0.32
3,151.00	29.700	21.50	2,974.53	726.55	268.47	774.55	0.96	0.95	0.32
3,246.00	29.400	20.80	3,057.17	770.25	285.38	821.40	0.48	-0.32	-0.74
3,341.00	28.800	20.50	3,140.18	813.48	301.67	867.60	0.65	-0.63	-0.32
3,436.00	28.700	19.80	3,223.47	856.38	317.41	913.29	0.37	-0.11	-0.74
3,530.00	27.600	19.30	3,306.35	898.17	332.25	957.63	1.20	-1.17	-0.53
3,625.00	27.600	19.00	3,390.54	939.75	346.69	1,001.63	0.15	0.00	-0.32
3,720.00	28.100	20.00	3,474.54	981.58	361.51	1,046.00	0.72	0.53	1.05
3,813.00	29.500	22.50	3,556.03	1,023.32	377.76	1,090.79	1.99	1.51	2.69
3,908.00	28.600	24.50	3,639.08	1,065.62	396.14	1,136.85	1.39	-0.95	2.11
4,003.00	27.100	23.50	3,723.08	1,106.16	414.20	1,181.16	1.65	-1.58	-1.05
4,095.00	27.500	24.50	3,804.83	1,144.70	431.37	1,223.28	0.66	0.43	1.09
4,190.00	26.600	23.00	3,889.44	1,184.24	448.77	1,266.42	1.19	-0.95	-1.58
4,285.00	26.700	20.70	3,974.35	1,223.78	464.63	1,309.01	1.09	0.11	-2.42
4,380.00	29.400	20.70	4,058.18	1,265.57	480.42	1,353.68	2.84	2.84	0.00
4,475.00	28.700	20.80	4,141.23	1,308.70	496.76	1,399.81	0.74	-0.74	0.11
4,569.00	28.700	20.90	4,223.68	1,350.89	512.83	1,444.95	0.05	0.00	0.11
4,664.00	28.800	20.70	4,306.97	1,393.61	529.05	1,490.65	0.15	0.11	-0.21
4,759.00	26.500	19.90	4,391.12	1,434.95	544.36	1,534.73	2.45	-2.42	-0.84
4,854.00	23.200	20.10	4,477.31	1,472.46	558.01	1,574.64	3.47	-3.47	0.21
4,949.00	22.300	21.00	4,564.92	1,506.86	570.90	1,611.38	1.02	-0.95	0.95

Sharewell

Survey Report

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Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5767.00ft
Site:	Circle B Tract 5 Pad	MD Reference:	KB @ 5767.00ft
Well:	CBS 31D-21-692	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)	
5,041.00	19.500	22.60	4,650.86	1,537.34	583.06	1,644.19	3.11	-3.04	1.74	
5,136.00	18.300	22.20	4,740.73	1,565.78	594.79	1,674.95	1.27	-1.26	-0.42	
5,231.00	16.300	22.80	4,831.43	1,591.89	605.59	1,703.18	2.11	-2.11	0.63	
5,326.00	14.000	23.30	4,923.12	1,614.73	615.30	1,727.99	2.42	-2.42	0.53	
5,421.00	11.600	20.00	5,015.76	1,634.27	623.11	1,749.02	2.64	-2.53	-3.47	
5,516.00	9.600	19.30	5,109.13	1,650.72	629.00	1,766.49	2.11	-2.11	-0.74	
5,612.00	8.000	19.70	5,204.00	1,664.56	633.90	1,781.17	1.67	-1.67	0.42	
5,707.00	5.900	16.10	5,298.29	1,675.48	637.48	1,792.65	2.26	-2.21	-3.79	
5,803.00	3.400	6.10	5,393.97	1,683.05	639.15	1,800.33	2.73	-2.60	-10.42	
5,897.00	1.800	5.00	5,487.87	1,687.30	639.58	1,804.44	1.70	-1.70	-1.17	
5,992.00	1.000	236.80	5,582.86	1,688.33	639.01	1,805.21	2.68	-0.84	-134.95	
6,087.00	2.100	218.80	5,677.82	1,686.52	637.23	1,802.89	1.25	1.16	-18.95	
6,182.00	2.500	203.40	5,772.74	1,683.26	635.31	1,799.16	0.77	0.42	-16.21	
6,277.00	2.700	226.10	5,867.65	1,679.81	632.88	1,795.07	1.10	0.21	23.89	
6,372.00	1.000	230.20	5,962.60	1,677.72	630.63	1,792.33	1.79	-1.79	4.32	
6,467.00	0.600	331.70	6,057.59	1,677.63	629.76	1,791.93	1.33	-0.42	106.84	
6,562.00	0.600	247.60	6,152.59	1,677.88	629.06	1,791.92	0.85	0.00	-88.53	
6,657.00	1.300	205.30	6,247.57	1,676.72	628.14	1,790.51	1.00	0.74	-44.53	
6,751.00	0.500	203.60	6,341.56	1,675.38	627.52	1,789.03	0.85	-0.85	-1.81	
6,846.00	1.300	229.60	6,436.55	1,674.30	626.53	1,787.68	0.92	0.84	27.37	
6,941.00	0.400	252.00	6,531.54	1,673.50	625.40	1,786.53	0.99	-0.95	23.58	
7,035.00	1.800	63.80	6,625.53	1,674.05	626.41	1,787.40	2.34	1.49	182.77	
7,130.00	1.700	49.70	6,720.48	1,675.62	628.82	1,789.72	0.46	-0.11	-14.84	
7,225.00	1.000	60.20	6,815.46	1,676.94	630.62	1,791.59	0.78	-0.74	11.05	
7,320.00	1.000	153.60	6,910.45	1,676.61	631.71	1,791.67	1.53	0.00	98.32	
7,415.00	1.000	281.30	7,005.44	1,676.03	631.26	1,790.97	1.89	0.00	134.42	
7,510.00	1.800	332.90	7,100.41	1,677.52	629.77	1,791.83	1.49	0.84	54.32	
7,605.00	0.800	326.60	7,195.39	1,679.40	628.73	1,793.23	1.06	-1.05	-6.63	
7,700.00	0.500	291.30	7,290.38	1,680.11	627.97	1,793.62	0.51	-0.32	-37.16	
7,794.00	0.600	270.30	7,384.38	1,680.26	627.10	1,793.45	0.24	0.11	-22.34	
7,888.00	1.100	229.80	7,478.37	1,679.68	625.92	1,792.49	0.80	0.53	-43.09	
7,983.00	1.000	234.90	7,573.35	1,678.61	624.54	1,791.01	0.14	-0.11	5.37	
8,078.00	1.700	197.20	7,668.33	1,676.79	623.45	1,788.92	1.15	0.74	-39.68	
8,147.00	1.800	196.40	7,737.29	1,674.77	622.84	1,786.82	0.15	0.14	-1.16	
8,197.00	1.800	196.40	7,787.27	1,673.27	622.40	1,785.25	0.00	0.00	0.00	

Sharewell
Survey Report

Company: Bill Barrett Corp. (II) Project: Garfield County, Colorado [NAD83] Site: Circle B Tract 5 Pad Well: CBS 31D-21-692 Wellbore: Wellbore #1 Design: Wellbore #1	Local Co-ordinate Reference: TVD Reference: KB @ 5767.00ft MD Reference: KB @ 5767.00ft North Reference: True Survey Calculation Method: Minimum Curvature Database: CompassVM	
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Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
717.00	716.95	-3.33	7.04	End of Gyro
3,436.00	3,223.47	856.38	317.41	As of Jan 25
5,041.00	4,650.86	1,537.34	583.06	As of Jan 26
6,087.00	5,677.82	1,686.52	637.23	As of Jan 27
8,197.00	7,787.27	1,673.27	622.40	Projected TD

Checked By: _____	Approved By: _____	Date: _____
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