

Bill Barrett Corp. (II)

Garfield County, Colorado [NAD83]

Circle B Tract 5 Pad

CBS 31C-21-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

23 January, 2012



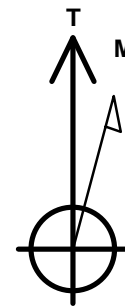
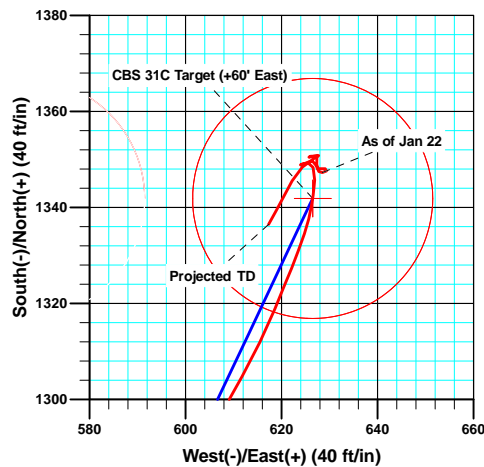
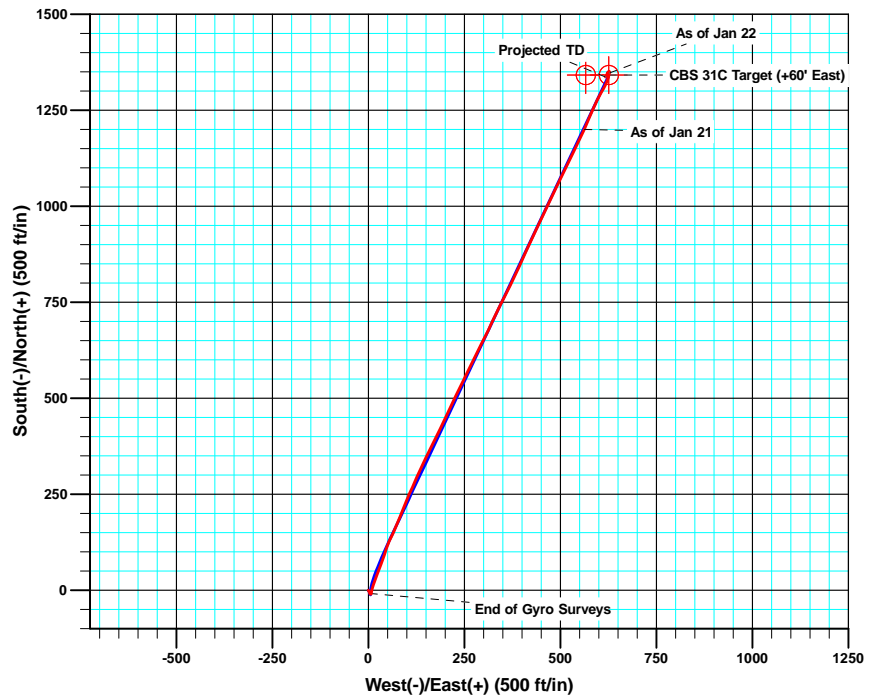
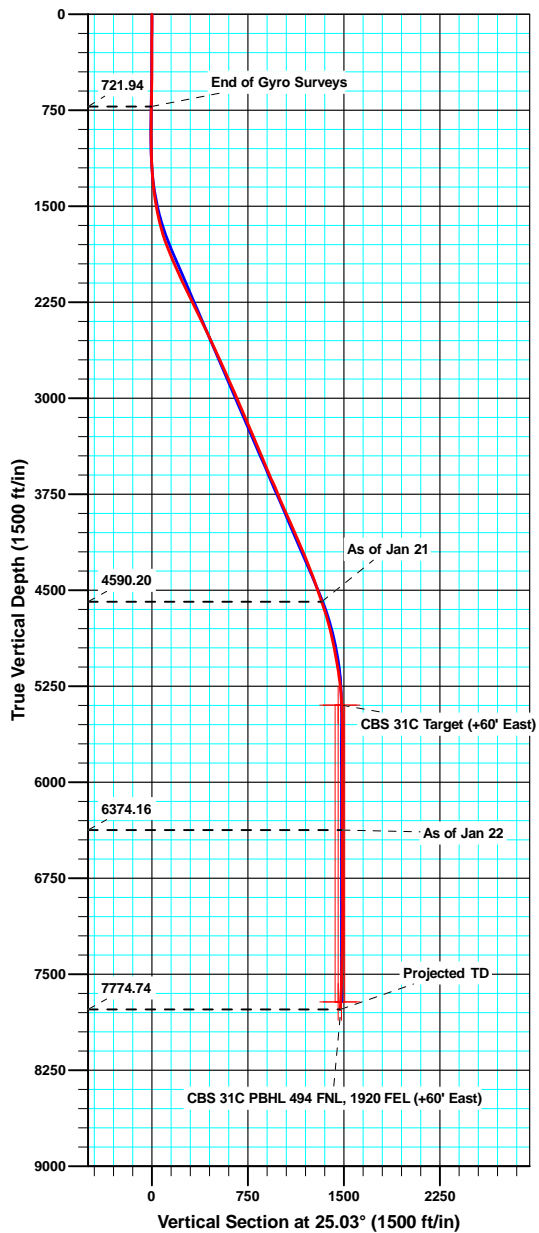
Bill Barrett Corporation

WELL DETAILS: CBS 31C-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 1619644.27 2387441.17 39° 30' 52.57 N 107° 40' 17.16 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
721.94	722.00	0.890	157.03	-8.29	3.91	-5.86	9.26	End of Gyro Surveys
4590.20	4857.00	19.000	23.90	1200.35	562.30	1325.53	1347.32	As of Jan 21
6374.16	6659.00	0.600	54.50	1347.30	628.49	1486.68	1520.64	As of Jan 22
7774.74	8060.00	2.500	207.60	1336.51	617.30	1472.17	1553.21	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well CBS 31C-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 31C-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 31C-21-692				
Well Position	+N/-S	0.00 ft	Northing:	1,619,644.26 usft	Latitude:	39° 30' 52.57 N
	+E/-W	0.00 ft	Easting:	2,387,441.17 usft	Longitude:	107° 40' 17.16 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 (°)	
	5,397.00	0.00	0.00	25.03	

Survey Program	Date	1/23/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	722.00	Survey #1 (Wellbore #1)	Gyro	Gyro	
870.00	8,060.00	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	0.670	148.95	100.00	-0.50	0.30	-0.33	0.67	0.67	0.00	
200.00	0.600	148.21	199.99	-1.45	0.88	-0.94	0.07	-0.07	-0.74	
300.00	0.720	143.31	299.99	-2.40	1.53	-1.52	0.13	0.12	-4.90	
400.00	0.750	159.50	399.98	-3.51	2.13	-2.28	0.21	0.03	16.19	
500.00	0.960	156.39	499.97	-4.89	2.70	-3.29	0.21	0.21	-3.11	
600.00	0.950	155.48	599.95	-6.42	3.38	-4.38	0.02	-0.01	-0.91	
700.00	0.910	173.08	699.94	-7.96	3.82	-5.60	0.29	-0.04	17.60	
722.00	0.890	157.03	721.94	-8.29	3.91	-5.86	1.15	-0.09	-72.95	
870.00	1.300	122.30	869.91	-10.24	5.77	-6.84	0.51	0.28	-23.47	

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Site:	Circle B Tract 5 Pad	MD Reference:	KB @ 5767.00ft
Well:	CBS 31C-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)
972.00	1.400	25.90	971.89	-9.74	7.30	-5.74	1.97	0.10	-94.51
1,067.00	1.400	1.60	1,066.86	-7.54	7.84	-3.51	0.62	0.00	-25.58
1,162.00	2.500	9.60	1,161.81	-4.33	8.21	-0.45	1.19	1.16	8.42
1,257.00	3.600	11.30	1,256.67	0.63	9.14	4.44	1.16	1.16	1.79
1,351.00	6.100	15.40	1,350.33	8.34	11.05	12.23	2.68	2.66	4.36
1,446.00	8.300	19.30	1,444.57	19.68	14.66	24.04	2.37	2.32	4.11
1,541.00	10.900	22.90	1,538.24	34.43	20.42	39.84	2.81	2.74	3.79
1,636.00	14.200	20.00	1,630.96	53.66	27.90	60.43	3.54	3.47	-3.05
1,731.00	17.600	20.50	1,722.31	78.07	36.92	86.36	3.58	3.58	0.53
1,826.00	21.000	17.10	1,811.96	107.80	46.96	117.55	3.77	3.58	-3.58
1,921.00	22.800	27.30	1,900.13	140.44	60.41	152.81	4.42	1.89	10.74
2,016.00	24.300	21.00	1,987.23	175.06	75.86	190.71	3.08	1.58	-6.63
2,111.00	25.200	22.60	2,073.50	211.98	90.64	230.42	1.18	0.95	1.68
2,206.00	25.500	22.80	2,159.36	249.50	106.34	271.06	0.33	0.32	0.21
2,301.00	26.500	24.90	2,244.74	287.58	123.18	312.69	1.43	1.05	2.21
2,396.00	25.600	24.70	2,330.09	325.45	140.68	354.41	0.95	-0.95	-0.21
2,491.00	26.400	26.50	2,415.48	363.00	158.69	396.05	1.18	0.84	1.89
2,585.00	25.600	26.10	2,499.96	399.94	176.94	437.24	0.87	-0.85	-0.43
2,680.00	24.500	25.90	2,586.03	436.09	194.58	477.46	1.16	-1.16	-0.21
2,775.00	24.600	25.50	2,672.44	471.66	211.70	516.93	0.20	0.11	-0.42
2,870.00	24.100	24.90	2,758.99	507.10	228.37	556.10	0.59	-0.53	-0.63
2,964.00	24.500	26.20	2,844.66	541.99	245.06	594.78	0.71	0.43	1.38
3,059.00	23.600	26.30	2,931.41	576.72	262.18	633.48	0.95	-0.95	0.11
3,154.00	23.600	26.60	3,018.47	610.77	279.12	671.50	0.13	0.00	0.32
3,249.00	22.900	26.60	3,105.75	644.30	295.91	708.99	0.74	-0.74	0.00
3,344.00	23.600	26.20	3,193.03	677.89	312.59	746.48	0.76	0.74	-0.42
3,438.00	23.400	25.10	3,279.24	711.68	328.81	783.96	0.51	-0.21	-1.17
3,533.00	22.200	26.10	3,366.81	744.88	344.71	820.77	1.33	-1.26	1.05
3,628.00	22.500	26.90	3,454.68	777.21	360.83	856.88	0.45	0.32	0.84
3,723.00	22.800	26.50	3,542.35	809.89	377.27	893.45	0.35	0.32	-0.42
3,816.00	24.700	23.90	3,627.47	843.79	393.18	930.90	2.33	2.04	-2.80
3,911.00	22.400	24.00	3,714.56	878.47	408.59	968.84	2.42	-2.42	0.11
4,006.00	22.500	25.90	3,802.36	911.36	423.89	1,005.12	0.77	0.11	2.00
4,098.00	24.600	25.50	3,886.69	944.48	439.83	1,041.87	2.29	2.28	-0.43
4,193.00	24.600	25.20	3,973.07	980.22	456.76	1,081.42	0.13	0.00	-0.32
4,288.00	23.800	25.70	4,059.72	1,015.39	473.49	1,120.36	0.87	-0.84	0.53
4,382.00	22.500	25.30	4,146.15	1,048.74	489.40	1,157.31	1.39	-1.38	-0.43
4,477.00	22.700	25.40	4,233.85	1,081.73	505.03	1,193.82	0.21	0.21	0.11
4,572.00	21.400	26.20	4,321.90	1,113.84	520.55	1,229.48	1.40	-1.37	0.84
4,667.00	19.600	25.80	4,410.88	1,143.74	535.14	1,262.74	1.90	-1.89	-0.42
4,762.00	19.300	26.40	4,500.46	1,172.15	549.05	1,294.37	0.38	-0.32	0.63
4,857.00	19.000	23.90	4,590.21	1,200.35	562.30	1,325.53	0.92	-0.32	-2.63
4,952.00	18.000	23.70	4,680.29	1,227.93	574.46	1,355.66	1.05	-1.05	-0.21

Sharewell

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Design:	Wellbore #1	Database:	CompassVM

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5,044.00	15.000	22.90	4,768.50	1,251.92	584.81	1,381.78	3.27	-3.26	-0.87	
5,139.00	12.700	26.80	4,860.73	1,272.57	594.31	1,404.50	2.61	-2.42	4.11	
5,234.00	11.000	29.30	4,953.70	1,289.79	603.45	1,423.98	1.87	-1.79	2.63	
5,329.00	9.900	28.70	5,047.13	1,304.86	611.81	1,441.17	1.16	-1.16	-0.63	
5,424.00	9.000	22.80	5,140.84	1,318.88	618.61	1,456.74	1.39	-0.95	-6.21	
5,519.00	7.000	20.80	5,234.91	1,331.14	623.55	1,469.94	2.13	-2.11	-2.11	
5,615.00	4.400	9.40	5,330.43	1,340.24	626.22	1,479.33	2.94	-2.71	-11.88	
5,710.00	2.300	1.90	5,425.26	1,345.74	626.88	1,484.59	2.25	-2.21	-7.89	
5,805.00	1.000	333.70	5,520.22	1,348.39	626.58	1,486.86	1.57	-1.37	-29.68	
5,900.00	0.800	281.30	5,615.21	1,349.27	625.56	1,487.22	0.86	-0.21	-55.16	
5,995.00	1.000	243.20	5,710.20	1,349.02	624.17	1,486.41	0.65	0.21	-40.11	
6,090.00	0.700	63.30	5,805.20	1,348.91	623.95	1,486.22	1.79	-0.32	-189.37	
6,185.00	0.400	88.60	5,900.19	1,349.18	624.80	1,486.82	0.40	-0.32	26.63	
6,280.00	0.600	57.20	5,995.19	1,349.45	625.55	1,487.39	0.35	0.21	-33.05	
6,375.00	0.600	99.00	6,090.18	1,349.65	626.46	1,487.95	0.45	0.00	44.00	
6,469.00	1.000	160.50	6,184.18	1,348.80	627.22	1,487.50	0.94	0.43	65.43	
6,565.00	0.700	149.20	6,280.17	1,347.50	627.80	1,486.57	0.36	-0.31	-11.77	
6,659.00	0.600	54.50	6,374.16	1,347.30	628.49	1,486.68	1.02	-0.11	-100.74	
6,754.00	0.600	87.10	6,469.16	1,347.61	629.40	1,487.34	0.35	0.00	34.32	
6,849.00	1.100	301.70	6,564.15	1,348.11	629.12	1,487.68	1.72	0.53	-153.05	
6,944.00	1.100	237.70	6,659.14	1,348.11	627.57	1,487.02	1.23	0.00	-67.37	
7,038.00	1.800	20.40	6,753.12	1,349.01	627.32	1,487.73	2.93	0.74	151.81	
7,133.00	0.700	305.10	6,848.10	1,350.74	627.37	1,489.32	1.85	-1.16	-79.26	
7,228.00	1.100	247.20	6,943.09	1,350.72	626.05	1,488.75	0.99	0.42	-60.95	
7,323.00	0.600	74.90	7,038.09	1,350.50	625.69	1,488.39	1.79	-0.53	-181.37	
7,418.00	0.700	84.30	7,133.08	1,350.68	626.75	1,489.01	0.15	0.11	9.89	
7,513.00	0.500	79.20	7,228.08	1,350.82	627.73	1,489.55	0.22	-0.21	-5.37	
7,607.00	1.600	247.00	7,322.07	1,350.38	626.93	1,488.81	2.22	1.17	178.51	
7,702.00	2.400	222.90	7,417.01	1,348.41	624.35	1,485.93	1.20	0.84	-25.37	
7,797.00	1.900	209.90	7,511.94	1,345.58	622.21	1,482.47	0.73	-0.53	-13.68	
7,891.00	2.100	206.80	7,605.89	1,342.70	620.66	1,479.20	0.24	0.21	-3.30	
7,986.00	2.500	209.80	7,700.81	1,339.35	618.85	1,475.39	0.44	0.42	3.16	
8,060.00	2.500	207.60	7,774.74	1,336.51	617.30	1,472.17	0.13	0.00	-2.97	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
722.00	721.94	-8.29	3.91	End of Gyro Surveys	
4,857.00	4,590.21	1,200.35	562.30	As of Jan 21	
6,659.00	6,374.16	1,347.30	628.49	As of Jan 22	
8,060.00	7,774.74	1,336.51	617.30	Projected TD	

Sharewell
Survey Report

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well CBS 31C-21-692
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Design:	Wellbore #1	Database:	CompassVM

Checked By: _____	Approved By: _____	Date: _____
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