

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

CB-TG Land Pad

CB-TG Land 11D-20-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

28 June, 2011



Bill Barrett Corporation

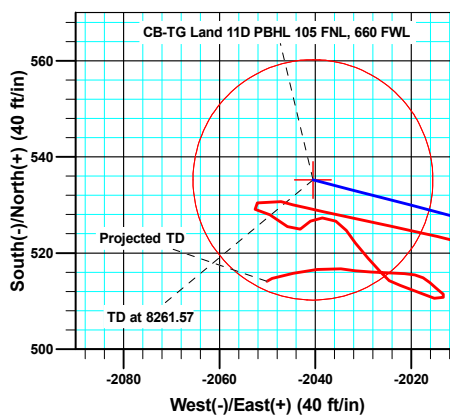
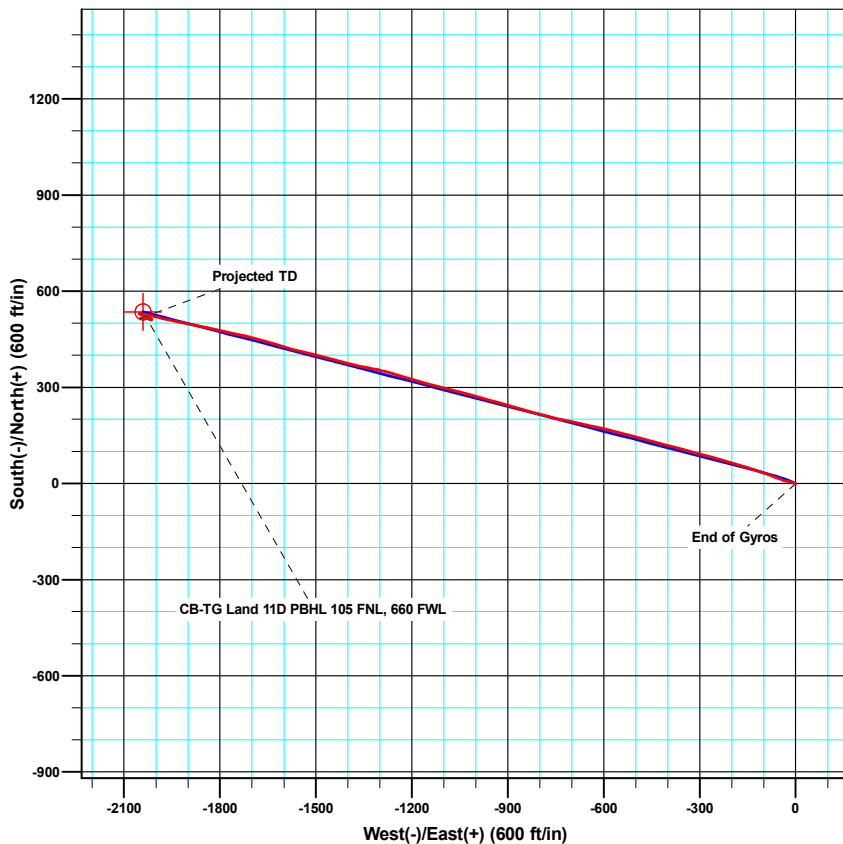
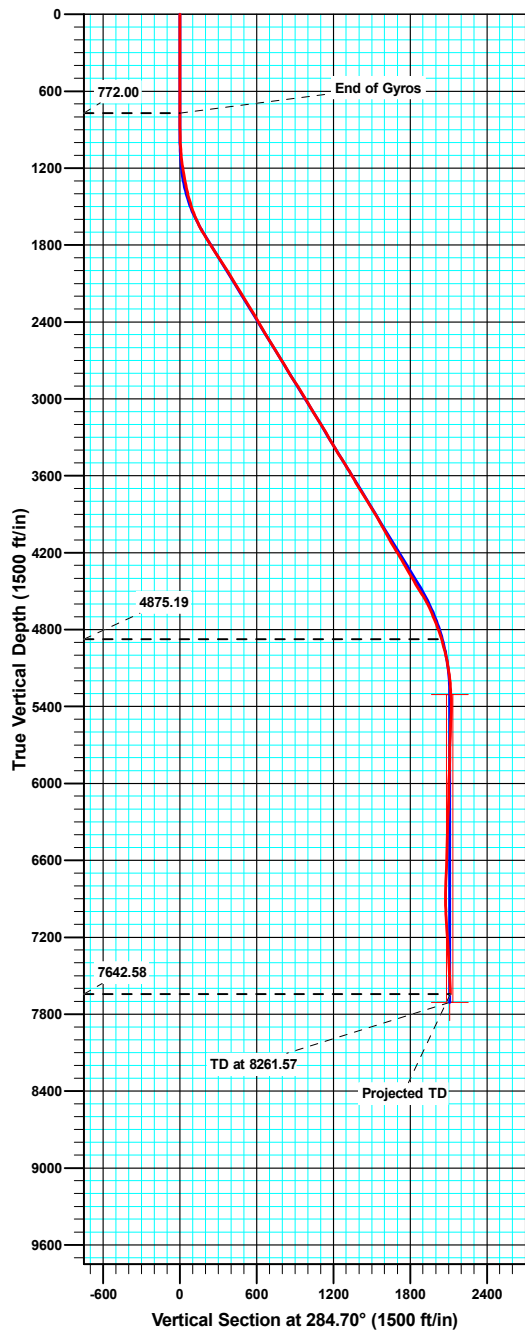
WELL DETAILS: 11D-20-691

Ground Level: 5529.00

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

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1620920.63	2382156.00	39.517759	-107.690269

CB-TG Land Pad



Azimuths to True North
Magnetic North: 10.24°

Magnetic Field
Strength: 52322.7nT
Dip Angle: 65.82°
Date: 04/14/2011
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
772.00	772.00	0.05	250.28	-1.39	-0.51	0.14	2.25	End of Gyros
4875.19	5416.00	17.10	283.10	514.75	-1978.82	2044.67	2048.30	As of June 24
7642.58	8193.00	2.20	243.00	514.16	-2050.08	2113.45	2216.79	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well CB-TG Land 11D-20-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5546.00ft
Site:	CB-TG Land Pad	MD Reference:	KB @ 5546.00ft
Well:	CB-TG Land 11D-20-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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		CB-TG Land Pad			
Site Position:		Northing:	1,620,936.11 usft	Latitude:	39.517801
From:	Lat/Long	Easting:	2,382,151.86 usft	Longitude:	-107.690285
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.38 °

Well	CB-TG Land 11D-20-692					
Well Position	+N/-S	0.00 ft	Northing:	1,620,920.63 usft	Latitude:	39.517759
	+E/-W	0.00 ft	Easting:	2,382,156.00 usft	Longitude:	-107.690269
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,529.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/14/11	10.24	65.82	52,323

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	284.70	

Survey Program	Date	06/28/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	772.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
960.00	8,193.00	MWD Surveys (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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50.00	0.28	265.70	50.00	-0.01	-0.12	0.12	0.56	0.56	0.00	
100.00	0.25	252.93	100.00	-0.05	-0.35	0.32	0.13	-0.06	-25.54	
150.00	0.18	199.96	150.00	-0.16	-0.48	0.42	0.40	-0.14	-105.94	
200.00	0.15	189.00	200.00	-0.29	-0.52	0.42	0.09	-0.06	-21.92	
250.00	0.22	136.71	250.00	-0.43	-0.46	0.34	0.35	0.14	-104.58	
300.00	0.20	143.64	300.00	-0.57	-0.34	0.19	0.06	-0.04	13.86	
350.00	0.23	134.87	350.00	-0.71	-0.22	0.03	0.09	0.06	-17.54	
400.00	0.30	164.44	400.00	-0.91	-0.11	-0.12	0.30	0.14	59.14	
450.00	0.11	170.62	450.00	-1.08	-0.07	-0.21	0.38	-0.38	12.36	

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Site:	CB-TG Land Pad	MD Reference:	KB @ 5546.00ft
Well:	CB-TG Land 11D-20-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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	0.10	196.76	500.00	-1.17	-0.08	-0.22	0.10	-0.02	52.28
550.00	0.03	196.40	550.00	-1.22	-0.09	-0.22	0.14	-0.14	-0.72
600.00	0.09	222.97	600.00	-1.27	-0.12	-0.20	0.13	0.12	53.14
650.00	0.18	247.51	650.00	-1.32	-0.22	-0.12	0.21	0.18	49.08
700.00	0.14	252.50	700.00	-1.37	-0.35	-0.01	0.08	-0.08	9.98
750.00	0.15	271.94	750.00	-1.39	-0.48	0.11	0.10	0.02	38.88
772.00	0.05	250.28	772.00	-1.39	-0.51	0.14	0.48	-0.45	-98.45
960.00	1.60	296.70	959.97	-0.24	-2.94	2.78	0.83	0.82	24.69
1,055.00	3.10	294.00	1,054.89	1.40	-6.47	6.61	1.58	1.58	-2.84
1,150.00	7.20	284.20	1,149.49	3.91	-14.59	15.10	4.40	4.32	-10.32
1,244.00	10.20	282.20	1,242.39	7.11	-28.44	29.31	3.21	3.19	-2.13
1,339.00	11.40	291.40	1,335.72	12.32	-45.40	47.04	2.21	1.26	9.68
1,434.00	15.40	290.70	1,428.11	20.20	-65.95	68.92	4.21	4.21	-0.74
1,528.00	18.70	289.30	1,517.97	29.60	-91.86	96.36	3.54	3.51	-1.49
1,623.00	24.00	288.80	1,606.42	40.87	-124.54	130.84	5.58	5.58	-0.53
1,718.00	29.90	286.40	1,691.07	53.79	-165.58	173.81	6.31	6.21	-2.53
1,813.00	32.30	286.30	1,772.41	67.60	-212.67	222.86	2.53	2.53	-0.11
1,908.00	32.90	285.50	1,852.44	81.62	-261.89	274.03	0.78	0.63	-0.84
2,003.00	33.10	284.70	1,932.11	95.10	-311.85	325.77	0.50	0.21	-0.84
2,098.00	32.30	284.90	2,012.06	108.21	-361.47	377.09	0.85	-0.84	0.21
2,192.00	31.30	284.70	2,091.94	120.86	-409.36	426.63	1.07	-1.06	-0.21
2,287.00	31.90	284.50	2,172.86	133.41	-457.53	476.40	0.64	0.63	-0.21
2,382.00	31.50	284.50	2,253.69	145.91	-505.86	526.32	0.42	-0.42	0.00
2,477.00	30.10	284.60	2,335.28	158.13	-552.94	574.97	1.47	-1.47	0.11
2,572.00	30.10	284.20	2,417.47	169.97	-599.09	622.61	0.21	0.00	-0.42
2,667.00	31.30	282.70	2,499.16	181.24	-646.26	671.09	1.50	1.26	-1.58
2,761.00	32.10	282.10	2,579.14	191.85	-694.50	720.45	0.91	0.85	-0.64
2,857.00	31.00	281.80	2,660.94	202.25	-743.64	770.62	1.16	-1.15	-0.31
2,951.00	31.40	284.60	2,741.35	213.37	-791.03	819.29	1.60	0.43	2.98
3,046.00	32.40	285.60	2,822.00	226.46	-839.50	869.48	1.19	1.05	1.05
3,141.00	32.20	285.70	2,902.30	240.15	-888.38	920.24	0.22	-0.21	0.11
3,236.00	32.00	286.50	2,982.78	254.15	-936.88	970.71	0.49	-0.21	0.84
3,330.00	30.40	285.30	3,063.18	267.50	-983.71	1,019.39	1.83	-1.70	-1.28
3,425.00	31.60	284.80	3,144.61	280.20	-1,030.96	1,068.31	1.29	1.26	-0.53
3,520.00	31.50	284.00	3,225.57	292.56	-1,079.10	1,118.02	0.45	-0.11	-0.84
3,615.00	30.40	283.80	3,307.04	304.30	-1,126.53	1,166.87	1.16	-1.16	-0.21
3,710.00	31.30	286.60	3,388.60	317.08	-1,173.52	1,215.57	1.78	0.95	2.95
3,805.00	32.40	286.50	3,469.30	331.36	-1,221.58	1,265.68	1.16	1.16	-0.11
3,899.00	31.30	286.70	3,549.15	345.53	-1,269.11	1,315.25	1.18	-1.17	0.21
3,994.00	28.90	279.60	3,631.36	356.46	-1,315.40	1,362.80	4.52	-2.53	-7.47
4,088.00	32.10	283.50	3,712.35	366.08	-1,362.10	1,410.41	4.00	3.40	4.15
4,183.00	32.00	283.60	3,792.87	377.89	-1,411.11	1,460.82	0.12	-0.11	0.11
4,278.00	31.60	284.80	3,873.61	390.17	-1,459.64	1,510.87	0.79	-0.42	1.26

Sharewell

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4,373.00	29.30	283.60	3,955.50	401.99	-1,506.31	1,559.01	2.50	-2.42	-1.26
4,468.00	29.30	283.90	4,038.35	413.04	-1,551.47	1,605.50	0.15	0.00	0.32
4,563.00	29.30	286.10	4,121.19	425.08	-1,596.37	1,651.98	1.13	0.00	2.32
4,658.00	32.30	286.50	4,202.79	438.73	-1,643.05	1,700.60	3.17	3.16	0.42
4,753.00	30.10	285.50	4,284.04	452.31	-1,690.34	1,749.79	2.38	-2.32	-1.05
4,847.00	29.40	281.50	4,365.66	463.21	-1,735.67	1,796.40	2.24	-0.74	-4.26
4,942.00	31.60	282.30	4,447.51	473.16	-1,782.85	1,844.56	2.35	2.32	0.84
5,037.00	31.70	282.80	4,528.38	483.99	-1,831.50	1,894.37	0.30	0.11	0.53
5,131.00	26.50	281.70	4,610.49	493.73	-1,876.15	1,940.03	5.56	-5.53	-1.17
5,226.00	22.90	280.90	4,696.78	501.52	-1,915.07	1,979.65	3.81	-3.79	-0.84
5,321.00	20.10	281.60	4,785.16	508.30	-1,949.22	2,014.40	2.96	-2.95	0.74
5,416.00	17.10	283.10	4,875.19	514.75	-1,978.82	2,044.67	3.20	-3.16	1.58
5,511.00	14.30	284.20	4,966.64	520.79	-2,003.80	2,070.37	2.96	-2.95	1.16
5,606.00	10.80	281.80	5,059.35	525.49	-2,023.89	2,091.00	3.72	-3.68	-2.53
5,701.00	6.90	282.70	5,153.21	528.57	-2,038.18	2,105.59	4.11	-4.11	0.95
5,796.00	4.30	284.40	5,247.74	530.71	-2,047.20	2,114.86	2.74	-2.74	1.79
5,890.00	2.30	232.20	5,341.60	530.43	-2,052.10	2,119.53	3.63	-2.13	-55.53
5,985.00	1.30	96.50	5,436.58	529.14	-2,052.54	2,119.63	3.53	-1.05	-142.84
6,080.00	2.70	117.50	5,531.52	527.99	-2,049.48	2,116.38	1.64	1.47	22.11
6,175.00	2.70	130.60	5,626.41	525.50	-2,045.80	2,112.18	0.65	0.00	13.79
6,270.00	1.60	45.90	5,721.37	524.96	-2,043.15	2,109.48	3.17	-1.16	-89.16
6,365.00	1.70	56.40	5,816.33	526.67	-2,041.02	2,107.86	0.33	0.11	11.05
6,460.00	1.60	94.70	5,911.29	527.34	-2,038.53	2,105.62	1.14	-0.11	40.32
6,555.00	1.90	110.90	6,006.25	526.67	-2,035.73	2,102.74	0.61	0.32	17.05
6,650.00	1.90	153.10	6,101.20	524.70	-2,033.55	2,100.13	1.44	0.00	44.42
6,744.00	2.00	134.80	6,195.14	522.15	-2,031.68	2,097.68	0.67	0.11	-19.47
6,839.00	3.10	143.70	6,290.05	518.92	-2,028.98	2,094.25	1.23	1.16	9.37
6,934.00	1.80	126.70	6,384.96	515.95	-2,026.26	2,090.87	1.55	-1.37	-17.89
7,029.00	1.10	149.90	6,479.93	514.27	-2,024.61	2,088.84	0.95	-0.74	24.42
7,123.00	2.30	96.70	6,573.89	513.27	-2,022.29	2,086.34	1.98	1.28	-56.60
7,218.00	2.90	122.40	6,668.80	511.76	-2,018.36	2,082.16	1.36	0.63	27.05
7,312.00	1.40	83.80	6,762.73	510.61	-2,015.21	2,078.82	2.13	-1.60	-41.06
7,407.00	0.90	84.60	6,857.71	510.81	-2,013.32	2,077.04	0.53	-0.53	0.84
7,502.00	1.20	308.60	6,952.71	511.50	-2,013.35	2,077.25	2.05	0.32	-143.16
7,597.00	3.20	311.60	7,047.63	513.88	-2,016.11	2,080.52	2.11	2.11	3.16
7,690.00	4.10	271.70	7,140.46	515.70	-2,021.38	2,086.08	2.83	0.97	-42.90
7,784.00	4.40	273.90	7,234.20	516.05	-2,028.33	2,092.89	0.36	0.32	2.34
7,879.00	3.30	278.50	7,328.98	516.70	-2,034.67	2,099.19	1.20	-1.16	4.84
7,974.00	2.80	256.90	7,423.85	516.58	-2,039.64	2,103.96	1.31	-0.53	-22.74
8,067.00	3.40	264.50	7,516.71	515.80	-2,044.60	2,108.56	0.78	0.65	8.17
8,162.00	2.20	243.00	7,611.60	514.70	-2,049.02	2,112.57	1.66	-1.26	-22.63
8,193.00	2.20	243.00	7,642.58	514.16	-2,050.08	2,113.45	0.00	0.00	0.00

Sharewell
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Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5546.00ft
Site:	CB-TG Land Pad	MD Reference:	KB @ 5546.00ft
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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)	
772.00	772.00	-1.39	-0.51	End of Gyros
5,416.00	4,875.19	514.75	-1,978.82	As of June 24
8,193.00	7,642.58	514.16	-2,050.08	Projected TD

Checked By: _____	Approved By: _____	Date: _____
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