

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

CB-TG Land Pad

CB-TG Land 21B-20-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

28 June, 2011

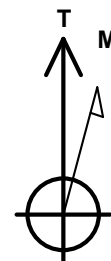
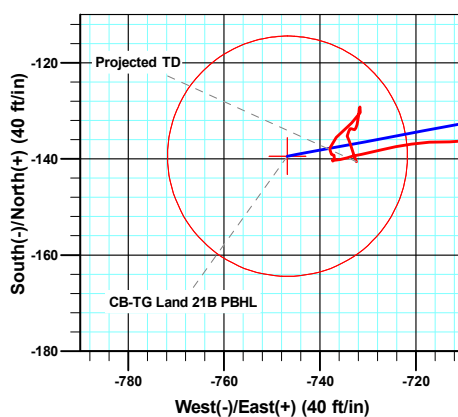
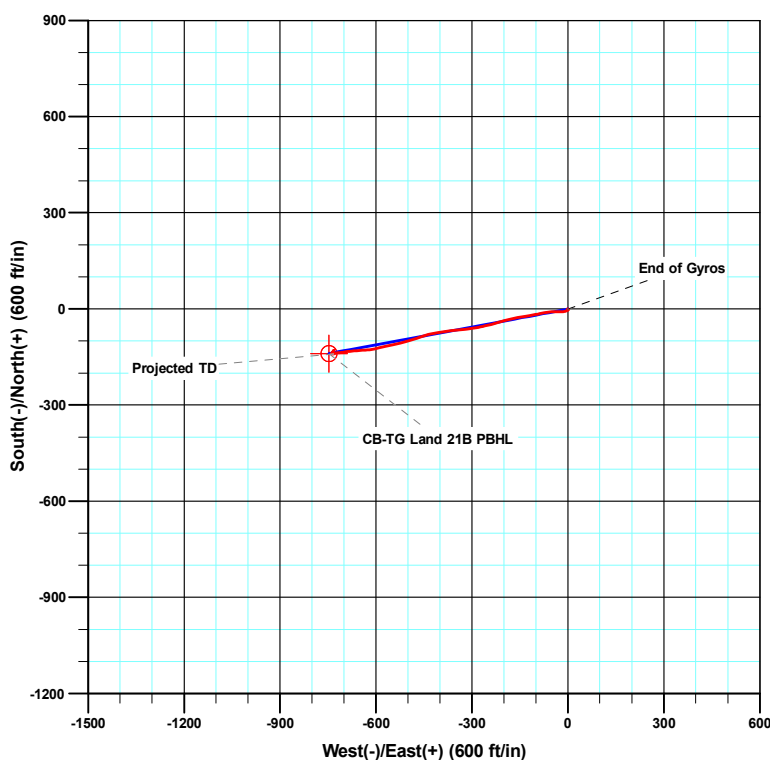
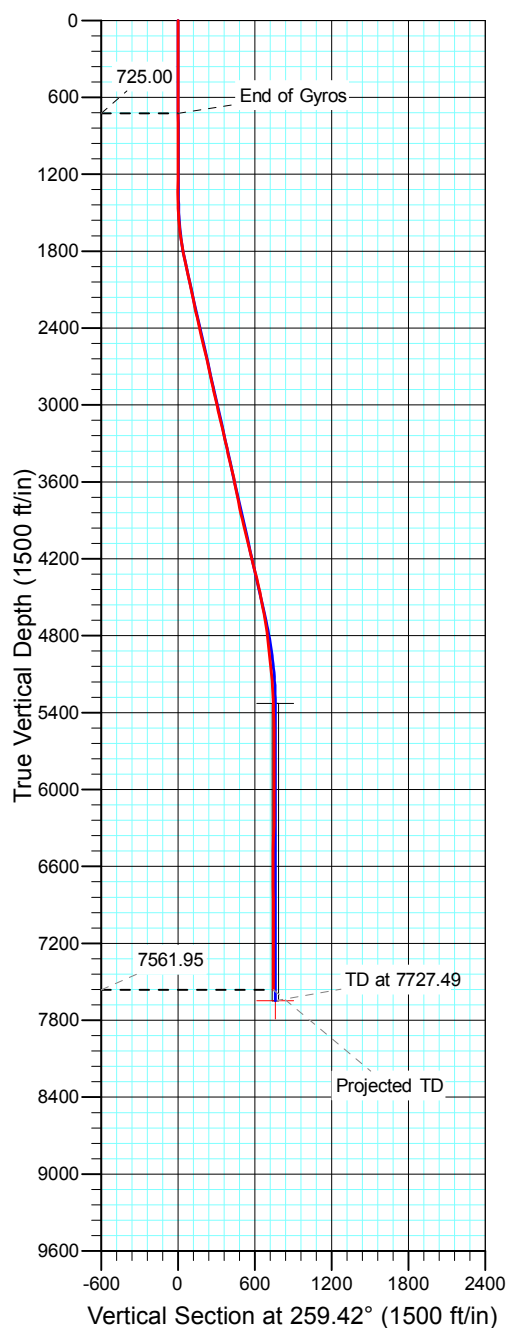


WELL DETAILS: CB-TG LAND 21B-20-691

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1620858.68 2382171.72 39.517590 -107.690208

CB-TG Land Pad

Ground Level: 5529.00 KB @ 5546.00 ft



Azimuths to True North
Magnetic North: 10.24°

Magnetic Field
 Strength: 52322.6snT
 Dip Angle: 65.82°
 Date: 04/14/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
725.00	725.00	0.13	257.98	-1.09	-1.18	1.36	2.38	End of Gyros
7561.95	7640.00	1.70	161.20	-140.57	-732.44	745.80	795.04	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well CB-TG Land 21B-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 21B-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 21B-20-692					
Well Position	+N/-S	0.00 ft	Northing:	1,620,858.68 usft	Latitude:	39.517590
	+E/-W	0.00 ft	Easting:	2,382,171.72 usft	Longitude:	-107.690208
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	259.42	

Survey Program	Date	06/28/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	725.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
869.00	7,640.00	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	0.25	356.48	50.00	0.11	-0.01	-0.01	0.50	0.50	0.00	
100.00	0.16	333.03	100.00	0.28	-0.05	-0.01	0.24	-0.18	-46.90	
150.00	0.15	287.78	150.00	0.36	-0.14	0.07	0.24	-0.02	-90.50	
200.00	0.10	237.97	200.00	0.36	-0.24	0.17	0.23	-0.10	-99.62	
250.00	0.10	202.76	250.00	0.30	-0.29	0.23	0.12	0.00	-70.42	
300.00	0.28	196.19	300.00	0.14	-0.34	0.31	0.36	0.36	-13.14	
350.00	0.17	184.00	350.00	-0.05	-0.38	0.39	0.24	-0.22	-24.38	
400.00	0.20	189.11	400.00	-0.21	-0.40	0.43	0.07	0.06	10.22	
450.00	0.26	204.10	450.00	-0.40	-0.46	0.53	0.17	0.12	29.98	

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Site:	CB-TG Land Pad	MD Reference:	KB @ 5546.00ft
Well:	CB-TG Land 21B-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	0.25	224.67	500.00	-0.58	-0.58	0.68	0.18	-0.02	41.14
550.00	0.26	212.03	550.00	-0.76	-0.72	0.85	0.11	0.02	-25.28
600.00	0.22	221.30	600.00	-0.93	-0.84	1.00	0.11	-0.08	18.54
650.00	0.13	242.73	650.00	-1.02	-0.96	1.13	0.22	-0.18	42.86
700.00	0.22	254.55	700.00	-1.08	-1.10	1.28	0.19	0.18	23.64
725.00	0.13	257.98	725.00	-1.09	-1.18	1.36	0.36	-0.36	13.72
869.00	0.20	115.20	869.00	-1.24	-1.11	1.32	0.22	0.05	-99.15
961.00	0.40	112.60	960.99	-1.43	-0.67	0.92	0.22	0.22	-2.83
1,055.00	0.30	85.30	1,054.99	-1.53	-0.12	0.40	0.20	-0.11	-29.04
1,150.00	0.60	62.90	1,149.99	-1.29	0.57	-0.33	0.36	0.32	-23.58
1,245.00	0.30	53.40	1,244.99	-0.91	1.22	-1.03	0.32	-0.32	-10.00
1,340.00	0.90	133.60	1,339.98	-1.28	1.96	-1.69	0.95	0.63	84.42
1,434.00	1.90	224.50	1,433.96	-2.90	1.40	-0.84	2.25	1.06	96.70
1,529.00	3.90	244.50	1,528.84	-5.41	-2.62	3.57	2.33	2.11	21.05
1,624.00	6.70	258.80	1,623.43	-7.88	-10.98	12.24	3.24	2.95	15.05
1,719.00	8.50	270.30	1,717.59	-8.92	-23.44	24.68	2.47	1.89	12.11
1,814.00	11.10	272.40	1,811.20	-8.50	-39.60	40.48	2.76	2.74	2.21
1,909.00	12.10	261.30	1,904.27	-9.62	-58.58	59.35	2.57	1.05	-11.68
2,050.00	13.40	258.10	2,041.79	-15.23	-89.18	90.46	1.05	0.92	-2.27
2,098.00	11.70	259.50	2,088.64	-17.26	-99.40	100.88	3.60	-3.54	2.92
2,192.00	11.90	261.00	2,180.66	-20.52	-118.35	120.10	0.39	0.21	1.60
2,287.00	11.30	260.10	2,273.71	-23.65	-137.19	139.20	0.66	-0.63	-0.95
2,382.00	13.20	259.90	2,366.55	-27.15	-157.04	159.36	2.00	2.00	-0.21
2,477.00	13.30	257.30	2,459.02	-31.46	-178.38	181.12	0.64	0.11	-2.74
2,572.00	13.00	254.40	2,551.53	-36.73	-199.33	202.69	0.76	-0.32	-3.05
2,667.00	12.90	251.30	2,644.11	-43.00	-219.67	223.83	0.74	-0.11	-3.26
2,762.00	12.70	258.80	2,736.76	-48.43	-239.96	244.77	1.76	-0.21	7.89
2,857.00	12.00	254.30	2,829.56	-53.13	-259.71	265.05	1.25	-0.74	-4.74
2,951.00	13.10	262.00	2,921.32	-57.26	-279.67	285.43	2.13	1.17	8.19
3,046.00	12.30	260.20	3,014.00	-60.48	-300.30	306.30	0.94	-0.84	-1.89
3,141.00	14.00	265.30	3,106.51	-63.15	-321.73	327.85	2.16	1.79	5.37
3,235.00	13.50	262.30	3,197.81	-65.55	-343.93	350.12	0.93	-0.53	-3.19
3,330.00	12.60	263.10	3,290.36	-68.28	-365.21	371.54	0.97	-0.95	0.84
3,425.00	11.50	262.40	3,383.26	-70.78	-384.88	391.33	1.17	-1.16	-0.74
3,520.00	13.60	261.70	3,475.99	-73.64	-405.32	411.95	2.22	2.21	-0.74
3,615.00	12.90	256.60	3,568.46	-77.71	-426.69	433.71	1.43	-0.74	-5.37
3,710.00	11.30	251.70	3,661.35	-83.09	-445.85	453.52	2.00	-1.68	-5.16
3,805.00	11.00	250.10	3,754.56	-89.10	-463.21	471.69	0.45	-0.32	-1.68
3,900.00	12.30	253.90	3,847.60	-94.99	-481.45	490.71	1.59	1.37	4.00
3,995.00	13.60	256.00	3,940.18	-100.50	-502.01	511.93	1.46	1.37	2.21
4,089.00	14.00	254.20	4,031.47	-106.27	-523.68	534.28	0.62	0.43	-1.91
4,184.00	14.60	257.30	4,123.53	-112.03	-546.41	557.69	1.02	0.63	3.26
4,280.00	13.90	259.20	4,216.57	-116.85	-569.54	581.32	0.88	-0.73	1.98

Sharewell

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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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)	
4,374.00	14.30	256.00	4,307.74	-121.78	-591.90	604.19	0.93	0.43	-3.40	
4,469.00	12.70	260.10	4,400.12	-126.41	-613.57	626.35	1.96	-1.68	4.32	
4,564.00	11.40	268.10	4,493.03	-128.52	-633.25	646.08	2.22	-1.37	8.42	
4,659.00	10.60	263.50	4,586.28	-129.82	-651.31	664.07	1.25	-0.84	-4.84	
4,754.00	9.30	265.70	4,679.85	-131.38	-667.65	680.42	1.43	-1.37	2.32	
4,848.00	8.10	267.20	4,772.77	-132.27	-681.84	694.53	1.30	-1.28	1.60	
4,943.00	6.20	262.50	4,867.03	-133.27	-693.61	706.29	2.09	-2.00	-4.95	
5,038.00	6.20	255.60	4,961.47	-135.22	-703.66	716.53	0.78	0.00	-7.26	
5,133.00	5.30	270.40	5,056.00	-136.46	-713.02	725.95	1.82	-0.95	15.58	
5,228.00	4.30	262.40	5,150.67	-136.90	-720.94	733.82	1.26	-1.05	-8.42	
5,323.00	3.10	254.80	5,245.47	-138.05	-726.95	739.94	1.36	-1.26	-8.00	
5,417.00	2.40	260.40	5,339.36	-139.04	-731.34	744.44	0.80	-0.74	5.96	
5,512.00	1.30	246.90	5,434.31	-139.80	-734.29	747.48	1.24	-1.16	-14.21	
5,606.00	0.60	283.20	5,528.30	-140.10	-735.75	748.97	0.95	-0.74	38.62	
5,701.00	0.70	245.10	5,623.29	-140.23	-736.77	749.99	0.46	0.11	-40.11	
5,795.00	0.30	330.00	5,717.29	-140.26	-737.41	750.63	0.78	-0.43	90.32	
5,889.00	0.50	153.40	5,811.29	-140.42	-737.35	750.59	0.85	0.21	-187.87	
5,983.00	1.10	9.00	5,905.28	-139.89	-737.02	750.18	1.63	0.64	-153.62	
6,078.00	0.40	214.30	6,000.28	-139.26	-737.07	750.11	1.55	-0.74	-162.84	
6,173.00	0.70	326.00	6,095.27	-139.06	-737.58	750.57	0.97	0.32	117.58	
6,266.00	0.90	351.50	6,188.27	-137.86	-738.00	750.77	0.43	0.22	27.42	
6,361.00	2.70	43.80	6,283.22	-135.51	-736.57	748.93	2.38	1.89	55.05	
6,456.00	2.60	49.90	6,378.12	-132.51	-733.37	745.23	0.31	-0.11	6.42	
6,550.00	1.00	7.90	6,472.07	-130.32	-731.63	743.12	2.10	-1.70	-44.68	
6,645.00	0.40	331.50	6,567.06	-129.21	-731.67	742.96	0.76	-0.63	-38.32	
6,741.00	0.60	175.30	6,663.06	-129.42	-731.79	743.11	1.02	0.21	-162.71	
6,834.00	1.20	189.20	6,756.05	-130.86	-731.90	743.49	0.68	0.65	14.95	
6,929.00	1.20	190.70	6,851.03	-132.82	-732.25	744.19	0.03	0.00	1.58	
7,024.00	0.50	256.10	6,946.02	-133.90	-732.84	744.96	1.15	-0.74	68.84	
7,119.00	0.40	320.40	7,041.02	-133.74	-733.45	745.54	0.51	-0.11	67.68	
7,214.00	1.00	207.10	7,136.01	-134.22	-734.04	746.20	1.28	0.63	-119.26	
7,309.00	0.40	159.30	7,231.01	-135.27	-734.30	746.65	0.83	-0.63	-50.32	
7,404.00	0.80	155.70	7,326.00	-136.19	-733.91	746.44	0.42	0.42	-3.79	
7,499.00	0.70	165.60	7,420.99	-137.35	-733.49	746.24	0.17	-0.11	10.42	
7,590.00	1.70	161.20	7,511.97	-139.17	-732.92	746.01	1.10	1.10	-4.84	
7,640.00	1.70	161.20	7,561.95	-140.57	-732.44	745.80	0.00	0.00	0.00	

Sharewell
Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well CB-TG Land 21B-20-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5546.00ft
Site:	CB-TG Land Pad	MD Reference:	KB @ 5546.00ft
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Design:	Wellbore #1	Database:	Compass VM

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
725.00	725.00	-1.09	-1.18	End of Gyros
7,640.00	7,561.95	-140.57	-732.44	Projected TD

Checked By: _____	Approved By: _____	Date: _____
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