

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 6 Pad

Kaufman 32C-24-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

20 September, 2011



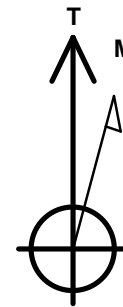
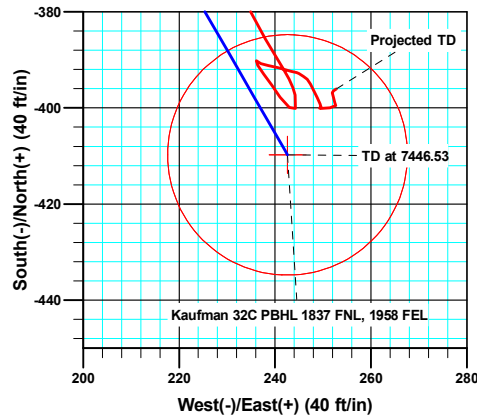
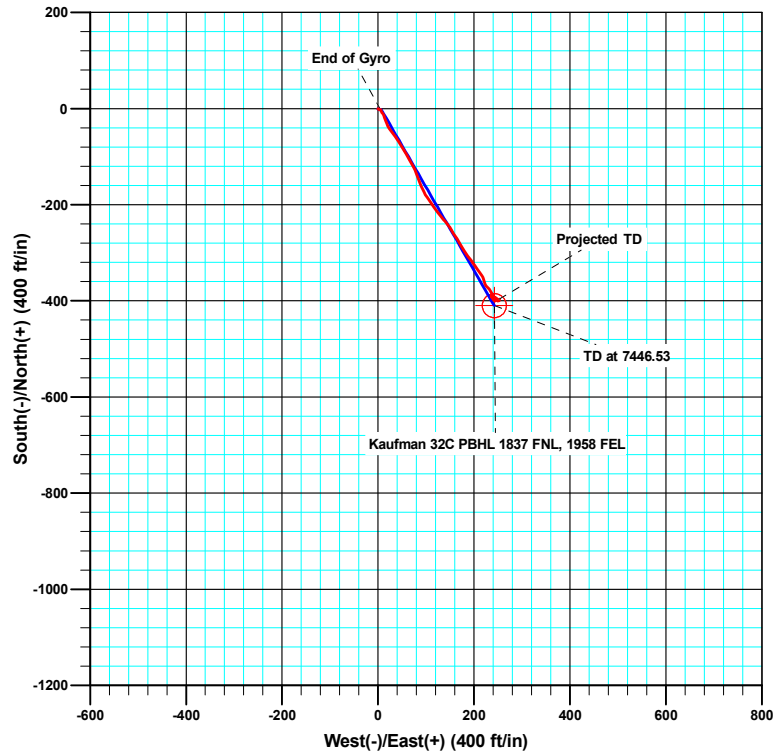
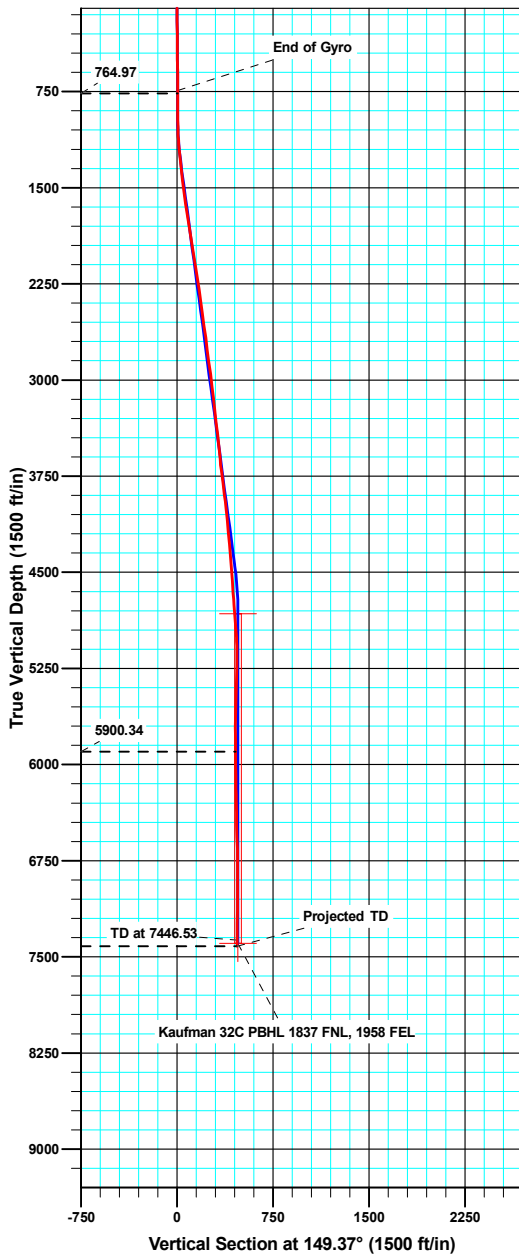


Well Details: Kaufman 32C-24-692

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1619788.77 2403648.59 39.516050 -107.614012

Ground Level: 5771

GL @ 5771.00ft (Original Well Elev)



Azimuths to True North
 Magnetic North: 10.29°

Magnetic Field
 Strength: 52446.3snT
 Dip Angle: 65.87°
 Date: 06/02/2010
 Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
764.97	765.00	0.25	80.20	-2.30	5.57	4.82	6.54	End of Gyro
5900.34	5929.00	0.70	109.30	-390.78	237.05	457.03	490.04	As of Sept 19
7418.07	7447.00	0.90	54.10	-396.04	252.79	469.57	516.30	Projected TD



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 32C-24-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	GL @ 5771.00ft (Original Well Elev)
Site:	Kaufman 6 Pad	MD Reference:	GL @ 5771.00ft (Original Well Elev)
Well:	Kaufman 32C-24-692	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	Kaufman 6 Pad				
Site Position:		Northing:	1,619,793.95 usft	Latitude:	39.516058
From:	Lat/Long	Easting:	2,403,552.20 usft	Longitude:	-107.614354
Position Uncertainty:	0.00 ft	Slot Radius:	0.00 ft	Grid Convergence:	-1.33 °

Well	Kaufman 32C-24-692					
Well Position	+N/-S	0.00 ft	Northing:	1,619,788.77 usft	Latitude:	39.516050
	+E/-W	0.00 ft	Easting:	2,403,648.59 usft	Longitude:	-107.614012
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,771.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	06/02/10	10.29	65.87	52,446

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	149.37	

Survey Program	Date	09/20/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	765.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	
882.00	7,447.00	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	
100.00	0.60	150.80	100.00	-0.46	0.26	0.52	0.60	0.60	0.00	
200.00	0.37	104.01	199.99	-0.99	0.82	1.27	0.44	-0.23	-46.79	
300.00	0.30	150.48	299.99	-1.30	1.27	1.76	0.27	-0.07	46.47	
400.00	0.44	96.04	399.99	-1.57	1.78	2.25	0.36	0.14	-54.44	
500.00	0.77	93.86	499.99	-1.65	2.83	2.86	0.33	0.33	-2.18	
600.00	0.84	100.94	599.98	-1.84	4.22	3.73	0.12	0.07	7.08	
700.00	0.42	125.61	699.97	-2.19	5.24	4.55	0.49	-0.42	24.67	
765.00	0.25	80.20	764.97	-2.30	5.57	4.82	0.47	-0.26	-69.86	
882.00	0.20	77.20	881.97	-2.21	6.02	4.97	0.04	-0.04	-2.56	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 32C-24-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	GL @ 5771.00ft (Original Well Elev)
Site:	Kaufman 6 Pad	MD Reference:	GL @ 5771.00ft (Original Well Elev)
Well:	Kaufman 32C-24-692	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)
975.00	0.60	191.50	974.97	-2.66	6.08	5.38	0.76	0.43	122.90
1,067.00	2.20	155.10	1,066.94	-4.73	6.73	7.50	1.91	1.74	-39.57
1,159.00	5.10	148.40	1,158.74	-9.82	9.62	13.35	3.18	3.15	-7.28
1,254.00	5.50	159.00	1,253.34	-17.66	13.46	22.06	1.11	0.42	11.16
1,350.00	6.00	160.70	1,348.85	-26.69	16.77	31.51	0.55	0.52	1.77
1,445.00	7.20	152.10	1,443.22	-36.64	21.20	42.33	1.63	1.26	-9.05
1,541.00	8.00	143.20	1,538.38	-47.31	28.01	54.98	1.48	0.83	-9.27
1,636.00	8.40	143.50	1,632.41	-58.18	36.10	68.45	0.42	0.42	0.32
1,732.00	8.60	148.50	1,727.36	-69.94	44.02	82.61	0.80	0.21	5.21
1,827.00	8.50	149.00	1,821.30	-82.01	51.35	96.73	0.13	-0.11	0.53
1,922.00	8.90	149.00	1,915.21	-94.33	58.75	111.10	0.42	0.42	0.00
2,018.00	9.20	152.20	2,010.02	-107.48	66.15	126.19	0.61	0.31	3.33
2,113.00	9.80	150.80	2,103.71	-121.26	73.64	141.86	0.68	0.63	-1.47
2,208.00	9.10	158.10	2,197.43	-135.29	80.39	157.37	1.46	-0.74	7.68
2,304.00	8.30	160.40	2,292.32	-148.86	85.54	171.67	0.91	-0.83	2.40
2,399.00	7.80	157.00	2,386.39	-161.25	90.36	184.79	0.73	-0.53	-3.58
2,494.00	8.10	154.20	2,480.47	-173.21	95.79	197.85	0.52	0.32	-2.95
2,590.00	7.70	144.30	2,575.57	-184.52	102.49	211.00	1.48	-0.42	-10.31
2,685.00	7.50	145.70	2,669.73	-194.81	109.70	223.52	0.29	-0.21	1.47
2,781.00	7.70	146.60	2,764.89	-205.36	116.77	236.20	0.24	0.21	0.94
2,876.00	7.50	142.00	2,859.05	-215.56	124.09	248.70	0.67	-0.21	-4.84
2,971.00	7.90	138.30	2,953.20	-225.32	132.25	261.26	0.67	0.42	-3.89
3,067.00	6.60	143.70	3,048.43	-234.69	139.90	273.23	1.53	-1.35	5.63
3,162.00	6.20	139.40	3,142.84	-242.99	146.48	283.71	0.66	-0.42	-4.53
3,258.00	6.80	151.40	3,238.22	-251.91	152.57	294.50	1.54	0.63	12.50
3,353.00	6.80	147.10	3,332.56	-261.57	158.32	305.74	0.54	0.00	-4.53
3,448.00	6.50	145.00	3,426.92	-270.70	164.46	316.72	0.41	-0.32	-2.21
3,544.00	6.10	152.80	3,522.34	-279.69	169.90	327.23	0.98	-0.42	8.13
3,639.00	5.40	146.50	3,616.86	-287.90	174.68	336.73	0.99	-0.74	-6.63
3,734.00	6.90	146.60	3,711.31	-296.40	180.29	346.90	1.58	1.58	0.11
3,830.00	7.40	146.10	3,806.57	-306.34	186.91	358.83	0.52	0.52	-0.52
3,925.00	7.80	140.30	3,900.73	-316.38	194.44	371.30	0.91	0.42	-6.11
4,021.00	6.30	145.10	3,996.00	-325.71	201.62	382.99	1.68	-1.56	5.00
4,116.00	5.60	146.00	4,090.49	-333.83	207.19	392.81	0.74	-0.74	0.95
4,211.00	5.00	141.40	4,185.09	-340.91	212.37	401.54	0.77	-0.63	-4.84
4,307.00	4.70	149.80	4,280.74	-347.58	216.95	409.62	0.80	-0.31	8.75
4,402.00	4.60	162.20	4,375.43	-354.57	220.08	417.22	1.06	-0.11	13.05
4,498.00	4.60	162.80	4,471.12	-361.91	222.39	424.72	0.05	0.00	0.63
4,593.00	4.40	142.80	4,565.84	-368.45	225.72	432.05	1.66	-0.21	-21.05
4,689.00	3.60	131.60	4,661.60	-373.39	230.20	438.58	1.16	-0.83	-11.67
4,784.00	4.80	151.50	4,756.35	-378.86	234.33	445.39	1.97	1.26	20.95
4,880.00	4.40	151.30	4,852.04	-385.62	238.01	453.08	0.42	-0.42	-0.21
4,975.00	4.50	147.40	4,946.76	-391.96	241.77	460.45	0.34	0.11	-4.11

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

Survey									
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5,070.00	2.70	169.50	5,041.57	-397.30	244.19	466.28	2.36	-1.89	23.26
5,166.00	0.80	210.90	5,137.52	-400.10	244.26	468.72	2.26	-1.98	43.13
5,261.00	1.50	311.50	5,232.51	-399.84	242.98	467.85	1.92	0.74	105.89
5,357.00	1.90	322.00	5,328.47	-397.75	241.06	465.08	0.53	0.42	10.94
5,452.00	1.80	327.80	5,423.42	-395.25	239.30	462.02	0.22	-0.11	6.11
5,547.00	1.60	320.00	5,518.38	-392.97	237.65	459.22	0.32	-0.21	-8.21
5,643.00	1.10	335.60	5,614.35	-391.11	236.41	456.99	0.64	-0.52	16.25
5,738.00	0.20	29.80	5,709.34	-390.13	236.11	456.00	1.05	-0.95	57.05
5,833.00	0.40	153.40	5,804.34	-390.29	236.34	456.25	0.57	0.21	130.11
5,929.00	0.70	109.30	5,900.34	-390.78	237.05	457.03	0.52	0.31	-45.94
6,024.00	1.20	102.10	5,995.33	-391.18	238.57	458.15	0.54	0.53	-7.58
6,120.00	1.40	103.30	6,091.30	-391.66	240.69	459.64	0.21	0.21	1.25
6,215.00	1.90	105.00	6,186.26	-392.33	243.34	461.58	0.53	0.53	1.79
6,310.00	0.20	137.70	6,281.24	-392.86	244.98	462.86	1.83	-1.79	34.42
6,405.00	1.10	117.00	6,376.23	-393.40	245.90	463.80	0.96	0.95	-21.79
6,501.00	1.70	151.50	6,472.21	-395.07	247.40	466.00	1.05	0.63	35.94
6,596.00	2.10	154.40	6,567.15	-397.88	248.83	469.14	0.43	0.42	3.05
6,692.00	0.40	180.30	6,663.13	-399.80	249.58	471.18	1.82	-1.77	26.98
6,787.00	0.40	290.80	6,758.13	-400.01	249.27	471.20	0.69	0.00	116.32
6,882.00	0.70	104.70	6,853.13	-400.04	249.52	471.36	1.16	0.32	183.05
6,977.00	1.70	81.00	6,948.10	-399.97	251.48	472.29	1.15	1.05	-24.95
7,073.00	0.40	326.90	7,044.09	-399.47	252.70	472.48	1.98	-1.35	-118.85
7,168.00	0.40	357.70	7,139.09	-398.86	252.51	471.86	0.22	0.00	32.42
7,263.00	0.90	338.20	7,234.08	-397.83	252.22	470.83	0.57	0.53	-20.53
7,358.00	0.40	357.80	7,329.08	-396.81	251.93	469.80	0.57	-0.53	20.63
7,400.00	0.90	54.10	7,371.07	-396.47	252.19	469.64	1.80	1.19	134.05
7,447.00	0.90	54.10	7,418.07	-396.04	252.79	469.57	0.00	0.00	0.00

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
765.00	764.97	-2.30	5.57	End of Gyro
5,929.00	5,900.34	-390.78	237.05	As of Sept 19
7,447.00	7,418.07	-396.04	252.79	Projected TD

Checked By: _____ Approved By: _____ Date: _____