

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 1 Pad Phase 2

Kaufman 22C-25-692

Wellbore #1

Design: Wellbore #1

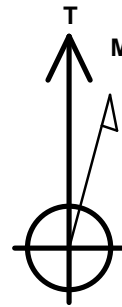
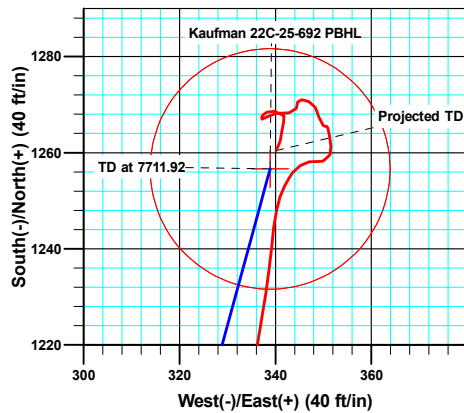
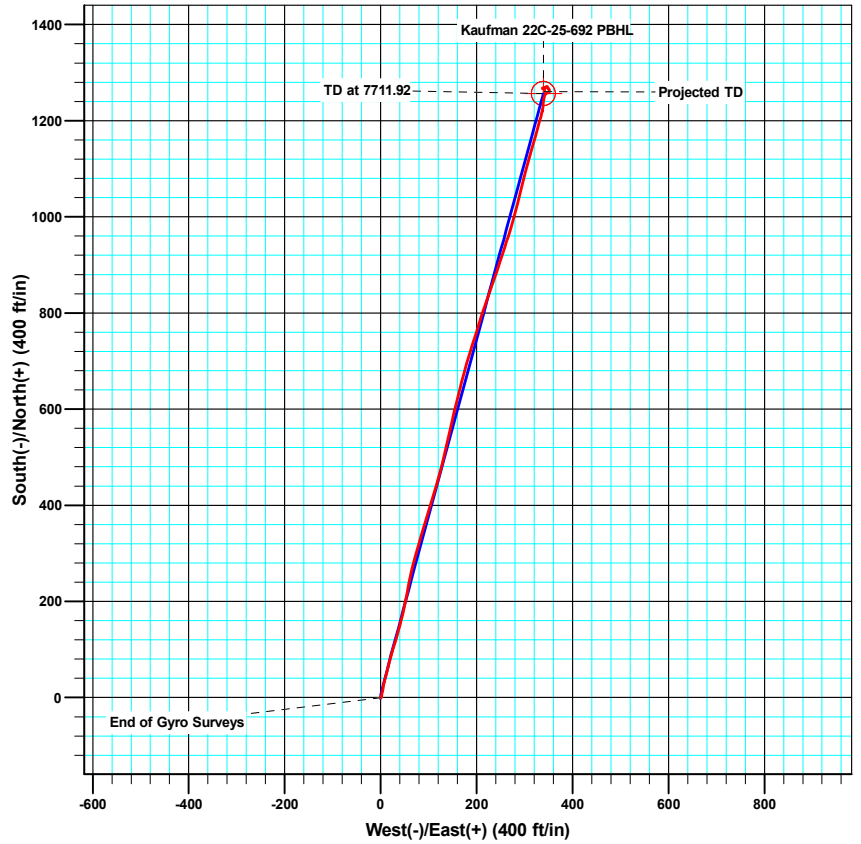
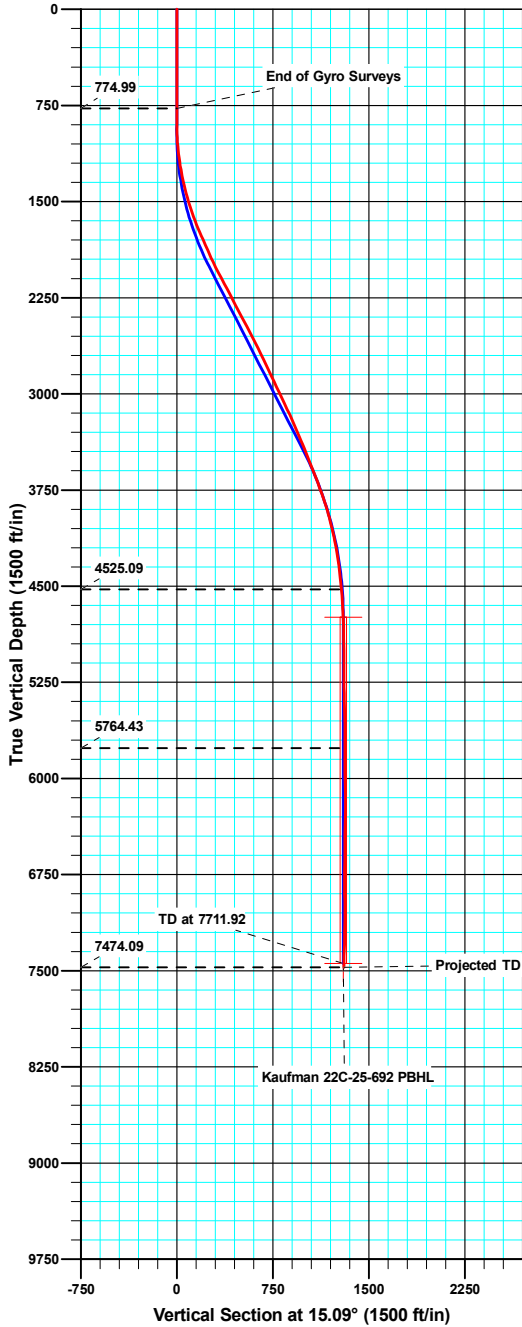
Standard Survey Report

12 July, 2011

WELL DETAILS: Kaufman 22C-25-692



North American Datum 1983 US State Plane 1983 Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1612921.66 2402102.52 39.497103 -107.618923
 Kaufman 1 Pad Phase 2
 Ground Level: 5922.00 KB @ 5945.00ft



Azimuths to True North
Magnetic North: 10.20°

Magnetic Field
Strength: 52311.9snT
Dip Angle: 65.81°
Date: 05/04/2011
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
774.99	775.00	0.59	218.41	-0.33	0.12	-0.29	3.29	End of Gyro Surveys
4525.09	4782.00	5.10	5.30	1240.49	339.21	1286.02	1292.84	As of July 10
5764.43	6022.00	0.30	208.40	1265.40	350.65	1313.06	1325.15	As of July 11
7474.09	7732.00	1.60	205.40	1260.46	340.15	1305.55	1359.13	Projected TD



Sharewell Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Kaufman 22C-25-692
Project: Garfield County, Colorado [NAD83]	TVD Reference: KB @ 5945.00ft
Site: Kaufman 1 Pad Phase 2	MD Reference: KB @ 5945.00ft
Well: Kaufman 22C-25-692	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 1 Pad Phase 2					
Site Position:	Northing:	1,612,919.10 usft	Latitude:	39.497097	
From: Lat/Long	Easting:	2,402,118.83 usft	Longitude:	-107.618865	
Position Uncertainty: 0.00 ft	Slot Radius: 1.10 ft		Grid Convergence:	-1.34 °	

Well Kaufman 22C-25-692					
Well Position	+N/-S	0.00 ft	Northing:	1,612,921.66 usft	Latitude: 39.497103
	+E/-W	0.00 ft	Easting:	2,402,102.52 usft	Longitude: -107.618923
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,922.00 ft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/04/11	10.20	65.81	52,312

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	15.09	

Survey Program		Date 07/12/11
From (ft)	To (ft)	Survey (Wellbore)
50.00	775.00	Gyro Surveys (Wellbore #1)
882.00	7,732.00	MWD Survey (Wellbore #1)
		Tool Name
		MWD
		Description
		MWD - Standard
		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	0.00
50.00	0.14	40.46	50.00	0.05	0.04	0.06	0.28	0.28	0.00	
100.00	0.22	223.25	100.00	0.02	0.01	0.03	0.72	0.16	-354.42	
150.00	0.17	358.56	150.00	0.03	-0.05	0.01	0.72	-0.10	270.62	
200.00	0.21	21.48	200.00	0.19	-0.02	0.17	0.17	0.08	45.84	
250.00	0.24	162.41	250.00	0.17	0.04	0.18	0.85	0.06	281.86	
300.00	0.27	207.51	300.00	-0.03	0.02	-0.03	0.40	0.06	90.20	
350.00	0.28	262.63	350.00	-0.15	-0.16	-0.19	0.51	0.02	110.24	
400.00	0.28	339.15	400.00	-0.05	-0.32	-0.14	0.69	0.00	153.04	
450.00	0.36	67.53	450.00	0.12	-0.22	0.06	0.90	0.16	176.76	

Sharewell

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Site:	Kaufman 1 Pad Phase 2	MD Reference:	KB @ 5945.00ft
Well:	Kaufman 22C-25-692	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	0.09	297.99	500.00	0.20	-0.11	0.16	0.85	-0.54	-259.08
550.00	0.22	87.51	550.00	0.22	-0.05	0.20	0.60	0.26	299.04
600.00	0.27	355.53	600.00	0.34	0.04	0.34	0.71	0.10	-183.96
650.00	0.27	159.58	650.00	0.35	0.07	0.36	1.07	0.00	328.10
700.00	0.38	187.35	700.00	0.08	0.09	0.10	0.38	0.22	55.54
750.00	0.29	138.66	749.99	-0.18	0.15	-0.14	0.58	-0.18	-97.38
775.00	0.59	218.41	774.99	-0.33	0.12	-0.29	2.44	1.20	319.00
882.00	0.30	170.00	881.99	-1.04	-0.18	-1.05	0.42	-0.27	-45.24
974.00	2.20	20.70	973.97	0.37	0.49	0.49	2.68	2.07	-162.28
1,066.00	5.10	13.80	1,065.77	6.00	2.09	6.34	3.18	3.15	-7.50
1,159.00	7.70	9.70	1,158.19	16.16	4.12	16.67	2.84	2.80	-4.41
1,254.00	10.50	12.20	1,251.98	30.89	7.03	31.66	2.98	2.95	2.63
1,350.00	12.30	14.30	1,346.09	49.35	11.40	50.62	1.92	1.88	2.19
1,445.00	15.00	15.30	1,438.39	71.02	17.15	73.04	2.85	2.84	1.05
1,540.00	17.80	15.70	1,529.52	96.86	24.32	99.85	2.95	2.95	0.42
1,636.00	20.50	17.20	1,620.20	127.05	33.26	131.33	2.86	2.81	1.56
1,731.00	22.60	13.50	1,708.56	160.70	42.45	166.21	2.63	2.21	-3.89
1,827.00	24.70	12.00	1,796.49	198.26	50.92	204.68	2.28	2.19	-1.56
1,922.00	23.70	10.20	1,883.14	236.47	58.43	243.52	1.31	-1.05	-1.89
2,018.00	25.40	14.70	1,970.47	275.38	67.07	283.34	2.63	1.77	4.69
2,113.00	27.30	16.00	2,055.60	316.03	78.25	325.50	2.09	2.00	1.37
2,209.00	28.30	17.30	2,140.51	358.92	91.09	370.26	1.22	1.04	1.35
2,304.00	27.30	16.40	2,224.55	401.32	103.93	414.54	1.14	-1.05	-0.95
2,399.00	27.40	16.30	2,308.93	443.20	116.22	458.18	0.12	0.11	-0.11
2,495.00	28.70	14.20	2,393.65	486.75	128.07	503.31	1.70	1.35	-2.19
2,590.00	27.70	13.20	2,477.38	530.36	138.71	548.19	1.16	-1.05	-1.05
2,686.00	27.40	11.70	2,562.49	573.72	148.29	592.54	0.79	-0.31	-1.56
2,780.00	26.60	15.10	2,646.25	615.22	158.16	635.18	1.85	-0.85	3.62
2,876.00	25.50	14.10	2,732.50	656.01	168.79	677.33	1.23	-1.15	-1.04
2,971.00	25.10	16.40	2,818.39	695.18	179.46	717.93	1.12	-0.42	2.42
3,066.00	26.20	17.90	2,904.03	734.47	191.60	759.02	1.34	1.16	1.58
3,162.00	25.10	16.50	2,990.56	774.16	203.89	800.54	1.31	-1.15	-1.46
3,257.00	26.00	19.40	3,076.28	813.12	216.53	841.45	1.62	0.95	3.05
3,353.00	24.30	18.90	3,163.17	851.66	229.92	882.15	1.78	-1.77	-0.52
3,448.00	23.40	19.30	3,250.06	887.95	242.49	920.47	0.96	-0.95	0.42
3,543.00	24.10	17.10	3,337.02	924.30	254.43	958.66	1.19	0.74	-2.32
3,638.00	21.40	18.60	3,424.62	959.27	265.66	995.35	2.91	-2.84	1.58
3,734.00	22.10	15.00	3,513.79	993.31	275.92	1,030.90	1.57	0.73	-3.75
3,829.00	21.40	14.30	3,602.02	1,027.37	284.83	1,066.10	0.79	-0.74	-0.74
3,924.00	20.70	13.70	3,690.68	1,060.48	293.09	1,100.21	0.77	-0.74	-0.63
4,019.00	19.30	14.90	3,779.95	1,091.96	301.10	1,132.70	1.54	-1.47	1.26
4,114.00	18.20	16.10	3,869.91	1,121.39	309.25	1,163.23	1.23	-1.16	1.26
4,210.00	14.90	15.40	3,961.92	1,147.70	316.69	1,190.57	3.44	-3.44	-0.73

Sharewell

Survey Report

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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)	
4,305.00	13.40	15.30	4,054.03	1,170.10	322.84	1,213.80	1.58	-1.58	-0.11	
4,400.00	11.20	14.90	4,146.85	1,189.63	328.11	1,234.03	2.32	-2.32	-0.42	
4,495.00	9.30	17.80	4,240.33	1,205.86	332.83	1,250.93	2.07	-2.00	3.05	
4,591.00	7.60	9.30	4,335.29	1,219.51	336.23	1,264.99	2.19	-1.77	-8.85	
4,686.00	6.40	8.50	4,429.58	1,230.95	338.03	1,276.50	1.27	-1.26	-0.84	
4,782.00	5.10	5.30	4,525.09	1,240.49	339.21	1,286.02	1.39	-1.35	-3.33	
4,878.00	4.00	11.20	4,620.79	1,248.02	340.26	1,293.57	1.24	-1.15	6.15	
4,973.00	2.50	29.40	4,715.64	1,253.08	341.92	1,298.88	1.90	-1.58	19.16	
5,068.00	1.50	36.10	4,810.58	1,255.89	343.67	1,302.05	1.08	-1.05	7.05	
5,164.00	1.10	61.40	4,906.55	1,257.34	345.22	1,303.86	0.72	-0.42	26.35	
5,259.00	1.30	73.50	5,001.53	1,258.09	347.05	1,305.06	0.34	0.21	12.74	
5,354.00	1.20	99.80	5,096.51	1,258.22	349.07	1,305.71	0.61	-0.11	27.68	
5,450.00	0.90	33.50	5,192.50	1,258.68	350.47	1,306.52	1.22	-0.31	-69.06	
5,545.00	0.70	56.90	5,287.49	1,259.62	351.37	1,307.66	0.40	-0.21	24.63	
5,640.00	1.70	348.90	5,382.47	1,261.32	351.59	1,309.36	1.66	1.05	-71.58	
5,736.00	1.10	356.30	5,478.44	1,263.64	351.25	1,311.51	0.65	-0.63	7.71	
5,831.00	0.50	333.70	5,573.43	1,264.92	351.01	1,312.68	0.70	-0.63	-23.79	
5,927.00	0.20	351.10	5,669.43	1,265.46	350.80	1,313.15	0.33	-0.31	18.13	
6,022.00	0.30	208.40	5,764.43	1,265.40	350.65	1,313.06	0.50	0.11	-150.21	
6,118.00	0.80	311.00	5,860.42	1,265.62	350.03	1,313.11	0.95	0.52	106.88	
6,213.00	1.60	343.00	5,955.40	1,267.33	349.14	1,314.52	1.07	0.84	33.68	
6,309.00	1.10	329.80	6,051.38	1,269.40	348.28	1,316.30	0.61	-0.52	-13.75	
6,404.00	1.10	298.10	6,146.36	1,270.62	347.02	1,317.15	0.63	0.00	-33.37	
6,499.00	0.80	268.70	6,241.35	1,271.04	345.55	1,317.17	0.59	-0.32	-30.95	
6,595.00	0.60	208.00	6,337.34	1,270.58	344.65	1,316.49	0.76	-0.21	-63.23	
6,690.00	1.10	182.50	6,432.33	1,269.23	344.37	1,315.12	0.65	0.53	-26.84	
6,785.00	1.80	269.90	6,527.31	1,268.31	342.84	1,313.83	2.18	0.74	92.00	
6,881.00	1.50	263.80	6,623.27	1,268.18	340.09	1,312.98	0.36	-0.31	-6.35	
6,976.00	1.10	227.90	6,718.25	1,267.43	338.17	1,311.76	0.93	-0.42	-37.79	
7,072.00	0.40	301.30	6,814.24	1,266.99	337.20	1,311.08	1.10	-0.73	76.46	
7,167.00	1.10	34.40	6,909.23	1,267.91	337.44	1,312.04	1.25	0.74	98.00	
7,262.00	2.20	91.30	7,004.20	1,268.62	339.77	1,313.33	1.94	1.16	59.89	
7,358.00	1.00	169.60	7,100.17	1,267.76	341.77	1,313.02	2.32	-1.25	81.56	
7,453.00	0.80	194.80	7,195.16	1,266.30	341.75	1,311.60	0.46	-0.21	26.53	
7,549.00	1.20	190.90	7,291.14	1,264.66	341.39	1,309.93	0.42	0.42	-4.06	
7,644.00	1.30	189.00	7,386.12	1,262.62	341.03	1,307.87	0.11	0.11	-2.00	
7,685.00	1.60	205.40	7,427.11	1,261.65	340.71	1,306.84	1.24	0.73	40.00	
7,732.00	1.60	205.40	7,474.09	1,260.46	340.15	1,305.55	0.00	0.00	0.00	

Sharewell
Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Kaufman 22C-25-692
Project: Garfield County, Colorado [NAD83]	TVD Reference: KB @ 5945.00ft
Site: Kaufman 1 Pad Phase 2	MD Reference: KB @ 5945.00ft
Well: Kaufman 22C-25-692	North Reference: True
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: Compass VM

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,022.00	5,764.43	1,265.40	350.65	As of July 11
7,732.00	7,474.09	1,260.46	340.15	Projected TD

Checked By: _____ Approved By: _____ Date: _____