

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 1 Pad Phase 2

Kaufman 12A-25-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

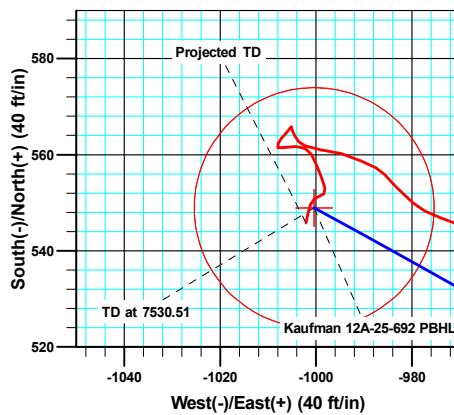
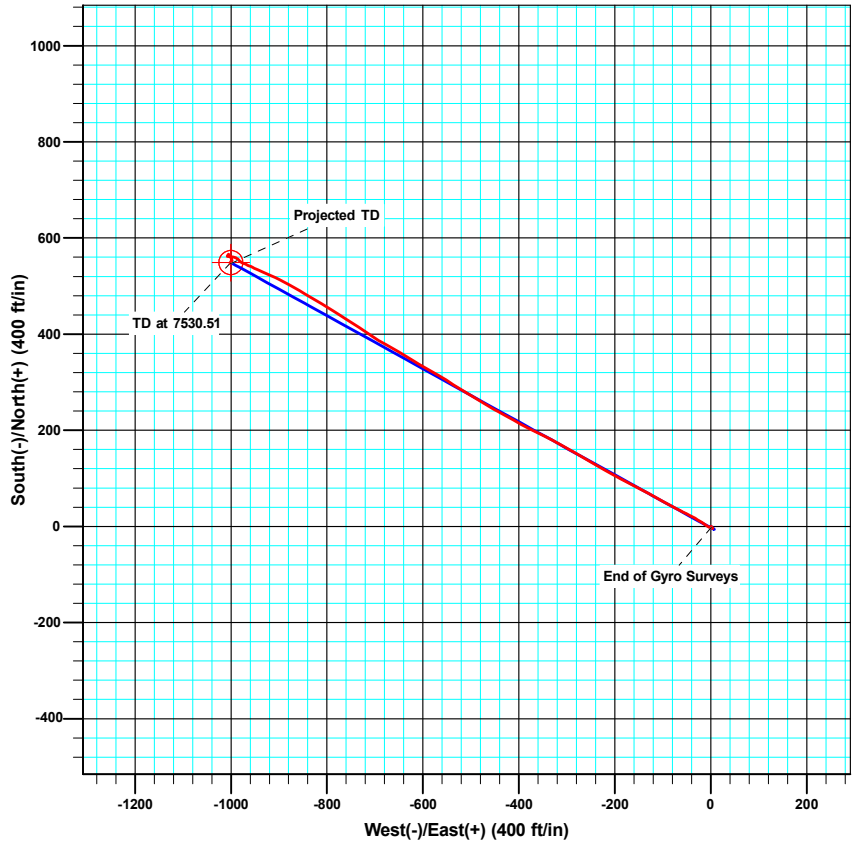
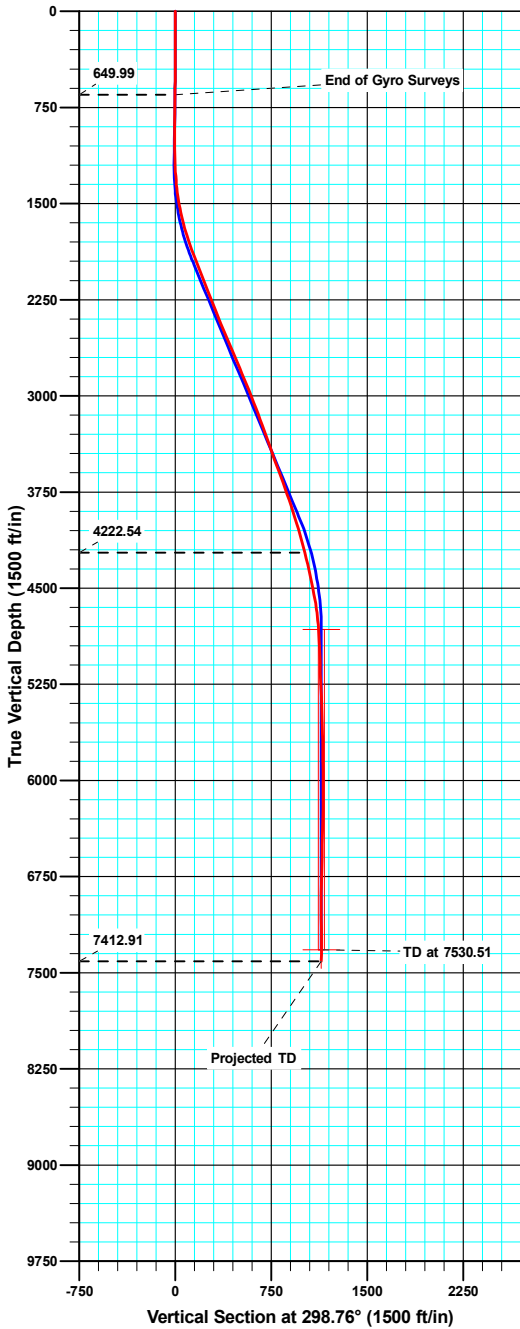
05 July, 2011

Wells Details: Kaufman 12A-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 1612923.84 2402086.76 39.497108 -107.618979

Ground Level: 5922.00 KB @ 5945.00ft
 Kaufman 1 Pad Phase 2



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
649.99	650.00	0.72	129.93	-1.52	1.74	-2.26	2.97	End of Gyro Surveys
4222.54	4400.00	14.70	298.10	502.21	-878.22	1011.52	1025.92	As of Jun 30
7412.91	7602.00	1.80	190.70	545.81	-1002.05	1141.05	1200.50	Projected TD



Sharewell Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Kaufman 12A-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 12A-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 12A-25-692						
Well Position	+N/-S	0.00 ft	Northing:	1,612,923.84 usft	Latitude:	39.497108
	+E/-W	0.00 ft	Easting:	2,402,086.76 usft	Longitude:	-107.618979
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
	IGRF2010	05/04/11	(°)	(°)	(nT)
			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)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00		298.76

Survey Program		Date	07/05/11		
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
50.00	650.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
882.00	7,602.00	MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50.00	0.19	57.91	50.00	0.04	0.07	-0.04	0.38	0.38	0.00	
100.00	0.21	173.69	100.00	0.00	0.15	-0.13	0.68	0.04	231.56	
150.00	0.25	43.80	150.00	-0.02	0.24	-0.21	0.83	0.08	-259.78	
200.00	0.25	107.72	200.00	0.03	0.42	-0.35	0.53	0.00	127.84	
250.00	0.39	98.49	250.00	-0.03	0.69	-0.62	0.30	0.28	-18.46	
300.00	0.30	167.16	300.00	-0.18	0.89	-0.86	0.79	-0.18	137.34	
350.00	0.16	154.19	350.00	-0.37	0.94	-1.01	0.30	-0.28	-25.94	
400.00	0.16	214.54	400.00	-0.49	0.94	-1.06	0.32	0.00	120.70	
450.00	0.16	154.40	450.00	-0.61	0.93	-1.11	0.32	0.00	-120.28	

Sharewell

Survey Report

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Site:	Kaufman 1 Pad Phase 2	MD Reference:	KB @ 5945.00ft
Well:	Kaufman 12A-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	0.14	138.18	500.00	-0.72	1.00	-1.22	0.09	-0.04	-32.44
550.00	0.36	132.07	550.00	-0.87	1.15	-1.43	0.44	0.44	-12.22
600.00	0.47	146.19	599.99	-1.15	1.38	-1.77	0.30	0.22	28.24
650.00	0.72	129.93	649.99	-1.52	1.74	-2.26	0.60	0.50	-32.52
882.00	0.50	145.20	881.98	-3.29	3.44	-4.59	0.12	-0.09	6.58
974.00	0.90	152.90	973.97	-4.26	3.99	-5.55	0.45	0.43	8.37
1,066.00	1.10	305.40	1,065.97	-4.39	3.60	-5.27	2.11	0.22	165.76
1,159.00	1.90	286.40	1,158.93	-3.44	1.40	-2.88	1.00	0.86	-20.43
1,254.00	3.40	292.90	1,253.83	-1.90	-2.71	1.46	1.61	1.58	6.84
1,350.00	5.60	303.50	1,349.53	1.80	-9.24	8.96	2.44	2.29	11.04
1,445.00	8.50	303.80	1,443.80	8.26	-18.94	20.58	3.05	3.05	0.32
1,540.00	11.00	300.20	1,537.42	16.73	-32.61	36.64	2.71	2.63	-3.79
1,636.00	13.80	295.80	1,631.18	26.32	-50.84	57.23	3.08	2.92	-4.58
1,731.00	16.60	298.40	1,722.85	37.71	-72.98	82.12	3.03	2.95	2.74
1,827.00	19.60	298.40	1,814.08	51.89	-99.21	111.94	3.13	3.13	0.00
1,922.00	20.70	298.50	1,903.27	67.48	-127.99	144.67	1.16	1.16	0.11
2,018.00	21.50	296.90	1,992.83	83.54	-158.59	179.22	1.03	0.83	-1.67
2,113.00	21.60	298.50	2,081.19	99.76	-189.48	214.10	0.63	0.11	1.68
2,209.00	21.40	298.80	2,170.51	116.63	-220.35	249.29	0.24	-0.21	0.31
2,304.00	21.80	301.00	2,258.84	134.06	-250.66	284.25	0.95	0.42	2.32
2,399.00	22.20	299.30	2,346.93	151.93	-281.44	319.82	0.79	0.42	-1.79
2,495.00	22.80	299.10	2,435.62	169.85	-313.51	356.56	0.63	0.63	-0.21
2,590.00	22.80	296.50	2,523.20	187.02	-346.06	393.36	1.06	0.00	-2.74
2,685.00	22.80	297.10	2,610.77	203.62	-378.92	430.15	0.24	0.00	0.63
2,780.00	23.00	299.90	2,698.29	221.25	-411.40	467.10	1.17	0.21	2.95
2,876.00	22.50	297.40	2,786.82	239.06	-443.97	504.22	1.13	-0.52	-2.60
2,917.00	22.60	301.10	2,824.69	246.74	-457.68	519.94	3.47	0.24	9.02
3,066.00	22.20	300.90	2,962.45	275.98	-506.35	576.67	0.27	-0.27	-0.13
3,162.00	21.70	303.10	3,051.49	294.99	-536.78	612.49	1.00	-0.52	2.29
3,257.00	20.60	300.90	3,140.09	313.16	-565.83	646.71	1.43	-1.16	-2.32
3,353.00	19.40	299.50	3,230.30	329.69	-594.20	679.53	1.35	-1.25	-1.46
3,448.00	20.30	301.20	3,319.65	345.99	-622.03	711.77	1.13	0.95	1.79
3,543.00	19.50	301.30	3,408.98	362.77	-649.67	744.08	0.84	-0.84	0.11
3,638.00	20.00	298.60	3,498.39	378.78	-677.49	776.16	1.10	0.53	-2.84
3,734.00	20.20	302.80	3,588.55	395.62	-705.83	809.11	1.52	0.21	4.38
3,829.00	20.00	303.60	3,677.77	413.50	-733.15	841.66	0.36	-0.21	0.84
3,924.00	19.90	303.10	3,767.07	431.32	-760.23	873.97	0.21	-0.11	-0.53
4,019.00	18.20	301.60	3,856.86	447.92	-786.41	904.91	1.86	-1.79	-1.58
4,114.00	17.50	300.90	3,947.29	463.03	-811.30	934.01	0.77	-0.74	-0.74
4,210.00	16.00	301.70	4,039.21	477.40	-834.95	961.64	1.58	-1.56	0.83
4,305.00	15.10	299.70	4,130.73	490.41	-856.84	987.09	1.10	-0.95	-2.11
4,400.00	14.70	298.10	4,222.54	502.21	-878.22	1,011.52	0.60	-0.42	-1.68
4,495.00	13.20	297.60	4,314.73	512.92	-898.46	1,034.42	1.58	-1.58	-0.53

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 12A-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 12A-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)	
4,591.00	11.60	294.00	4,408.49	521.92	-917.00	1,054.99	1.85	-1.67	-3.75	
4,686.00	11.80	293.20	4,501.52	529.63	-934.65	1,074.18	0.27	0.21	-0.84	
4,782.00	10.40	295.90	4,595.72	537.29	-951.47	1,092.61	1.56	-1.46	2.81	
4,877.00	7.20	292.20	4,689.59	543.28	-964.70	1,107.09	3.42	-3.37	-3.89	
4,973.00	4.70	289.90	4,785.07	546.90	-973.97	1,116.95	2.62	-2.60	-2.40	
5,068.00	3.30	308.70	4,879.84	549.93	-979.76	1,123.49	2.00	-1.47	19.79	
5,164.00	2.50	320.50	4,975.71	553.27	-983.25	1,128.16	1.04	-0.83	12.29	
5,259.00	1.80	312.10	5,070.65	555.87	-985.67	1,131.53	0.81	-0.74	-8.84	
5,354.00	1.00	299.30	5,165.62	557.28	-987.50	1,133.82	0.90	-0.84	-13.47	
5,450.00	2.90	293.70	5,261.56	558.66	-990.46	1,137.07	1.99	1.98	-5.83	
5,545.00	2.60	286.70	5,356.45	560.25	-994.72	1,141.57	0.47	-0.32	-7.37	
5,640.00	2.40	273.60	5,451.36	560.99	-998.77	1,145.48	0.64	-0.21	-13.79	
5,736.00	2.00	294.60	5,547.29	561.82	-1,002.30	1,148.97	0.93	-0.42	21.88	
5,831.00	2.00	336.00	5,642.24	564.02	-1,004.48	1,151.94	1.49	0.00	43.58	
5,927.00	0.30	9.40	5,738.21	565.80	-1,005.12	1,153.36	1.83	-1.77	34.79	
6,022.00	0.70	212.90	5,833.21	565.56	-1,005.40	1,153.49	1.03	0.42	-164.74	
6,118.00	0.90	221.20	5,929.20	564.50	-1,006.21	1,153.69	0.24	0.21	8.65	
6,213.00	0.70	227.40	6,024.19	563.54	-1,007.13	1,154.04	0.23	-0.21	6.53	
6,309.00	1.00	203.80	6,120.18	562.38	-1,007.90	1,154.15	0.47	0.31	-24.58	
6,404.00	0.40	120.20	6,215.18	561.46	-1,007.95	1,153.75	1.09	-0.63	-88.00	
6,499.00	1.40	79.40	6,310.17	561.50	-1,006.52	1,152.52	1.19	1.05	-42.95	
6,595.00	1.40	88.50	6,406.14	561.75	-1,004.20	1,150.60	0.23	0.00	9.48	
6,690.00	1.10	122.50	6,501.12	561.29	-1,002.27	1,148.69	0.83	-0.32	35.79	
6,785.00	1.10	143.00	6,596.10	560.07	-1,000.95	1,146.95	0.41	0.00	21.58	
6,881.00	1.50	160.40	6,692.07	558.15	-999.97	1,145.17	0.58	0.42	18.13	
6,976.00	1.90	157.50	6,787.03	555.52	-998.95	1,143.01	0.43	0.42	-3.05	
7,072.00	1.20	167.80	6,883.00	553.07	-998.13	1,141.11	0.78	-0.73	10.73	
7,167.00	0.60	240.60	6,977.99	551.86	-998.35	1,140.72	1.23	-0.63	76.63	
7,262.00	0.70	246.40	7,072.98	551.38	-999.32	1,141.34	0.13	0.11	6.11	
7,358.00	0.70	233.70	7,168.97	550.80	-1,000.33	1,141.94	0.16	0.00	-13.23	
7,453.00	1.00	203.60	7,263.96	549.69	-1,001.13	1,142.11	0.56	0.32	-31.68	
7,549.00	1.80	190.70	7,359.93	547.44	-1,001.74	1,141.57	0.89	0.83	-13.44	
7,602.00	1.80	190.70	7,412.91	545.81	-1,002.05	1,141.05	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
650.00	649.99	-1.52	1.74	End of Gyro Surveys	
4,400.00	4,222.54	502.21	-878.22	As of Jun 30	
7,602.00	7,412.91	545.81	-1,002.05	Projected TD	

Sharewell
Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 12A-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 12A-25-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Checked By: _____ Approved By: _____ Date: _____