

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 1 Pad Phase 2

Kaufman 23A-25-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

22 July, 2011



Bill Barrett Corporation

WELL DETAILS: Kaufman 23A-25-692

North American Datum 1983

US State Plane 1983

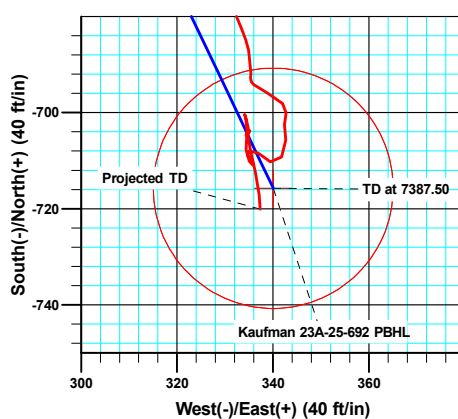
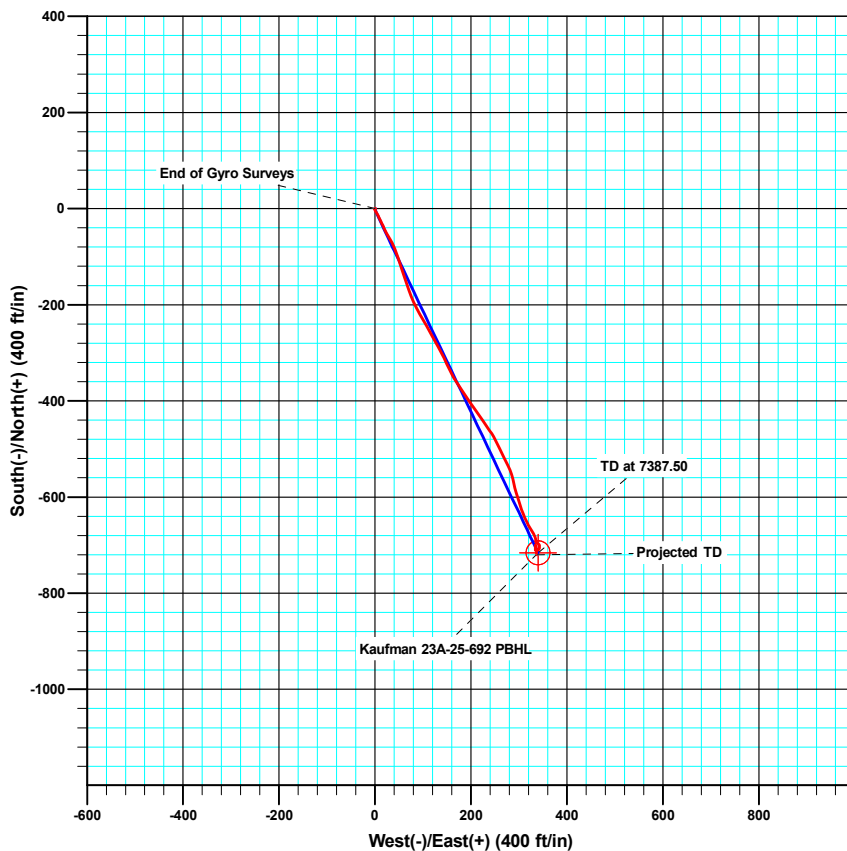
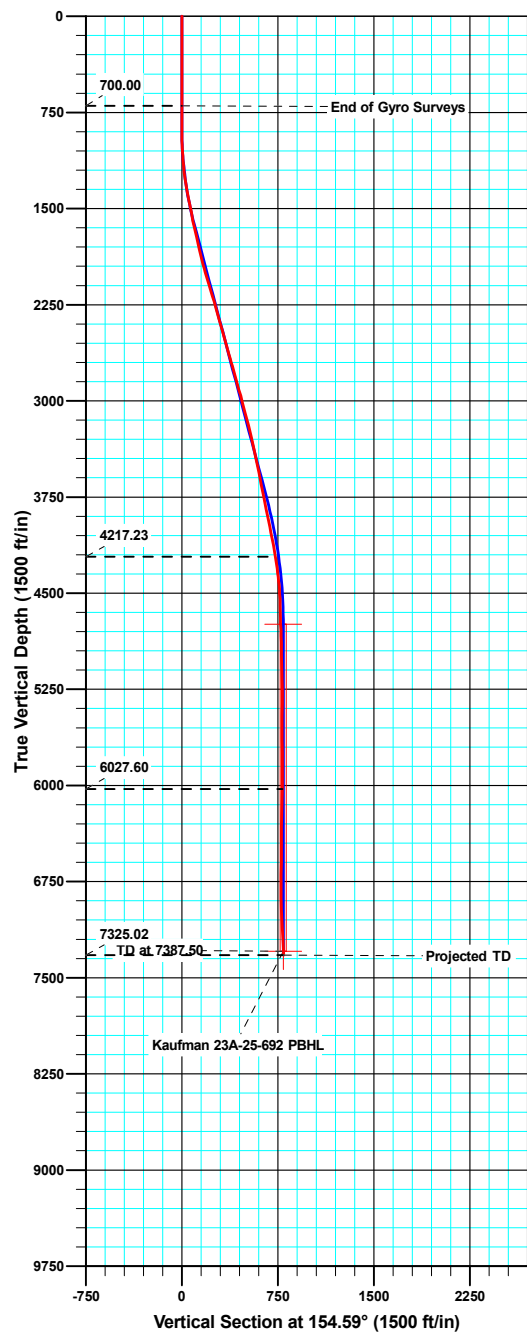
Colorado Central Zone

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1612919.47	2402118.56	39.497098	-107.618866

Kaufman 1 Pad Phase 2

Ground Level: 5922.00

KB @ 5945.00ft



Azimuths to True North
Magnetic North: 10.20°

Magnetic Field
Strength: 52312.2nT
Dip Angle: 65.81°
Date: 05/03/2011
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
700.00	700.00	0.23	253.84	0.32	0.90	0.09	2.20	End of Gyro Surveys
4217.23	4305.00	9.40	150.10	-658.15	319.82	731.71	740.33	As of July 20
6027.60	6118.00	0.70	316.10	-710.10	335.06	785.18	815.01	As of July 21
7325.02	7416.00	2.90	175.70	-720.06	337.30	795.14	850.09	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 23A-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 23A-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 23A-25-692				
Well Position	+N/-S	0.00 ft	Northing:	1,612,919.46 usft	Latitude:	39.497098
	+E/-W	0.00 ft	Easting:	2,402,118.56 usft	Longitude:	-107.618866
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	05/03/11	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	154.59	

Survey Program	Date	07/22/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	700.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
882.00	7,416.00	MWD Survey (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	0.19	129.79	50.00	-0.05	0.06	0.08	0.38	0.38	0.00	
100.00	0.14	123.63	100.00	-0.14	0.18	0.20	0.11	-0.10	-12.32	
150.00	0.24	66.01	150.00	-0.13	0.32	0.26	0.41	0.20	-115.24	
200.00	0.22	331.79	200.00	0.00	0.38	0.16	0.67	-0.04	-188.44	
250.00	0.15	115.29	250.00	0.05	0.39	0.12	0.70	-0.14	287.00	
300.00	0.37	54.22	300.00	0.12	0.58	0.14	0.65	0.44	-122.14	
350.00	0.22	95.91	350.00	0.20	0.81	0.16	0.50	-0.30	83.38	
400.00	0.05	180.31	400.00	0.17	0.90	0.23	0.44	-0.34	168.80	
450.00	0.25	358.98	450.00	0.26	0.90	0.15	0.60	0.40	357.34	

Sharewell

Survey Report

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Site:	Kaufman 1 Pad Phase 2	MD Reference:	KB @ 5945.00ft
Well:	Kaufman 23A-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	0.19	82.12	500.00	0.38	0.98	0.08	0.59	-0.12	166.28
550.00	0.17	238.82	550.00	0.35	1.00	0.11	0.71	-0.04	313.40
600.00	0.12	2.17	600.00	0.37	0.94	0.07	0.51	-0.10	246.70
650.00	0.10	140.33	650.00	0.39	0.97	0.07	0.41	-0.04	276.32
700.00	0.23	253.84	700.00	0.32	0.90	0.09	0.57	0.26	227.02
882.00	0.20	349.70	882.00	0.53	0.49	-0.27	0.18	-0.02	52.67
974.00	2.70	187.80	973.96	-1.45	0.17	1.39	3.14	2.72	-175.98
1,066.00	2.80	140.50	1,065.87	-5.34	1.30	5.38	2.40	0.11	-51.41
1,159.00	5.80	150.60	1,158.60	-11.18	5.05	12.27	3.31	3.23	10.86
1,254.00	8.00	154.90	1,252.91	-21.35	10.22	23.67	2.38	2.32	4.53
1,350.00	10.20	156.00	1,347.69	-35.17	16.51	38.85	2.30	2.29	1.15
1,445.00	10.70	150.60	1,441.12	-50.54	24.26	56.06	1.16	0.53	-5.68
1,540.00	10.90	149.50	1,534.44	-65.96	33.15	73.80	0.30	0.21	-1.16
1,636.00	12.60	160.20	1,628.43	-83.64	41.30	93.27	2.87	1.77	11.15
1,731.00	13.00	160.00	1,721.07	-103.43	48.47	114.22	0.42	0.42	-0.21
1,827.00	13.40	162.90	1,814.53	-124.21	55.43	135.98	0.81	0.42	3.02
1,922.00	14.10	161.10	1,906.81	-145.68	62.42	158.36	0.86	0.74	-1.89
2,018.00	16.20	160.70	1,999.47	-169.38	70.63	183.30	2.19	2.19	-0.42
2,113.00	17.10	155.30	2,090.49	-194.58	80.85	210.45	1.88	0.95	-5.68
2,208.00	17.20	150.20	2,181.27	-219.46	93.67	238.42	1.59	0.11	-5.37
2,304.00	15.50	149.60	2,273.39	-242.84	107.21	265.35	1.78	-1.77	-0.63
2,399.00	15.90	151.10	2,364.84	-265.18	119.92	290.99	0.60	0.42	1.58
2,495.00	15.50	152.10	2,457.26	-288.03	132.28	316.93	0.50	-0.42	1.04
2,590.00	15.70	152.90	2,548.76	-310.69	144.08	342.46	0.31	0.21	0.84
2,685.00	16.70	155.60	2,639.99	-334.57	155.57	368.95	1.32	1.05	2.84
2,780.00	15.60	147.40	2,731.25	-357.76	168.09	395.28	2.66	-1.16	-8.63
2,875.00	15.60	146.60	2,822.75	-379.19	182.01	420.60	0.23	0.00	-0.84
2,971.00	16.30	144.40	2,915.06	-400.92	196.96	446.65	0.96	0.73	-2.29
3,066.00	14.90	144.10	3,006.56	-421.65	211.88	471.78	1.48	-1.47	-0.32
3,162.00	14.70	147.50	3,099.37	-441.92	225.66	496.00	0.93	-0.21	3.54
3,257.00	14.20	144.20	3,191.37	-461.54	238.95	519.43	1.01	-0.53	-3.47
3,353.00	13.40	153.50	3,284.61	-481.05	250.81	542.13	2.45	-0.83	9.69
3,447.00	11.90	153.20	3,376.32	-499.45	260.04	562.71	1.60	-1.60	-0.32
3,543.00	12.00	153.40	3,470.24	-517.21	268.97	582.58	0.11	0.10	0.21
3,638.00	11.80	154.40	3,563.20	-534.80	277.59	602.17	0.30	-0.21	1.05
3,734.00	11.80	163.30	3,657.18	-553.05	284.65	621.69	1.89	0.00	9.27
3,829.00	11.40	168.20	3,750.24	-571.55	289.36	640.42	1.12	-0.42	5.16
3,924.00	12.00	163.70	3,843.27	-590.22	294.05	659.30	1.15	0.63	-4.74
4,019.00	11.60	160.30	3,936.26	-608.69	300.05	678.55	0.84	-0.42	-3.58
4,114.00	10.50	162.80	4,029.50	-625.95	305.82	696.62	1.26	-1.16	2.63
4,209.00	11.30	156.30	4,122.79	-642.74	312.13	714.49	1.54	0.84	-6.84
4,305.00	9.40	150.10	4,217.23	-658.15	319.82	731.71	2.29	-1.98	-6.46
4,400.00	7.50	147.30	4,311.19	-670.10	327.03	745.60	2.05	-2.00	-2.95

Sharewell

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Site:	Kaufman 1 Pad Phase 2	MD Reference:	KB @ 5945.00ft
Well:	Kaufman 23A-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)
4,495.00	5.70	156.40	4,405.56	-679.64	332.27	756.47	2.19	-1.89	9.58
4,591.00	3.70	166.20	4,501.23	-687.01	334.92	764.27	2.24	-2.08	10.21
4,686.00	2.20	188.90	4,596.11	-691.79	335.37	768.77	1.97	-1.58	23.89
4,782.00	1.30	120.70	4,692.07	-694.17	336.02	771.20	2.19	-0.94	-71.04
4,877.00	2.80	123.30	4,787.01	-695.99	338.89	774.08	1.58	1.58	2.74
4,973.00	1.70	125.90	4,882.93	-698.12	342.00	777.33	1.15	-1.15	2.71
5,068.00	1.40	199.60	4,977.91	-700.04	342.75	779.39	1.97	-0.32	77.58
5,164.00	1.60	177.20	5,073.87	-702.48	342.42	781.45	0.64	0.21	-23.33
5,259.00	2.30	175.30	5,168.82	-705.70	342.64	784.46	0.74	0.74	-2.00
5,354.00	2.30	212.30	5,263.75	-709.22	341.78	787.26	1.54	0.00	38.95
5,450.00	1.70	295.80	5,359.71	-710.22	339.47	787.18	2.81	-0.63	86.98
5,545.00	2.10	313.20	5,454.65	-708.42	336.93	784.46	0.73	0.42	18.32
5,640.00	1.10	220.60	5,549.63	-707.92	335.07	783.21	2.54	-1.05	-97.47
5,736.00	0.40	140.80	5,645.62	-708.88	334.68	783.91	1.15	-0.73	-83.13
5,831.00	0.40	126.70	5,740.62	-709.33	335.16	784.53	0.10	0.00	-14.84
5,927.00	1.10	154.80	5,836.61	-710.37	335.82	785.75	0.80	0.73	29.27
6,022.00	0.60	312.10	5,931.60	-710.86	335.84	786.20	1.76	-0.53	165.58
6,118.00	0.70	316.10	6,027.60	-710.10	335.06	785.18	0.11	0.10	4.17
6,213.00	2.30	351.90	6,122.56	-707.80	334.39	782.81	1.87	1.68	37.68
6,309.00	1.20	25.90	6,218.52	-704.98	334.56	780.34	1.53	-1.15	35.42
6,404.00	0.50	27.70	6,313.51	-703.72	335.18	779.47	0.74	-0.74	1.89
6,499.00	1.10	226.10	6,408.50	-703.99	334.72	779.51	1.67	0.63	-170.11
6,595.00	0.40	97.80	6,504.50	-704.67	334.39	779.98	1.44	-0.73	-133.65
6,690.00	1.70	6.00	6,599.48	-703.32	334.86	778.96	1.85	1.37	-96.63
6,785.00	1.10	321.10	6,694.46	-701.20	334.44	776.87	1.27	-0.63	-47.26
6,881.00	0.30	50.30	6,790.45	-700.33	334.05	775.92	1.18	-0.83	92.92
6,976.00	1.30	177.90	6,885.44	-701.24	334.28	776.84	1.58	1.05	134.32
7,071.00	2.20	169.90	6,980.40	-704.12	334.64	779.59	0.98	0.95	-8.42
7,167.00	2.50	169.50	7,076.32	-707.99	335.35	783.39	0.31	0.31	-0.42
7,262.00	2.90	165.90	7,171.21	-712.36	336.31	787.75	0.46	0.42	-3.79
7,358.00	2.90	175.70	7,267.09	-717.13	337.08	792.40	0.52	0.00	10.21
7,416.00	2.90	175.70	7,325.02	-720.06	337.30	795.14	0.00	0.00	0.00

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
700.00	700.00	0.32	0.90	End of Gyro Surveys
4,305.00	4,217.23	-658.15	319.82	As of July 20
6,118.00	6,027.60	-710.10	335.06	As of July 21
7,416.00	7,325.02	-720.06	337.30	Projected TD

Sharewell
Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 23A-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 23A-25-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Checked By: _____ Approved By: _____ Date: _____