

Bill Barrett Corp.

Garfield Co., CO (NAD83)

Kaufman Pad #2 (Sec.25-T6S-R92W)

Kaufman 21C-25-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

20 February, 2012

WELL DETAILS: Kaufman 21C-25-692

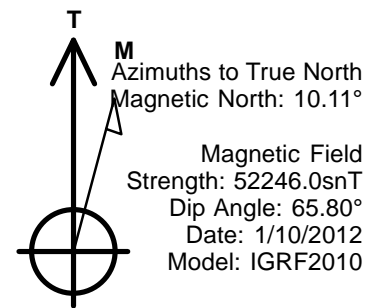
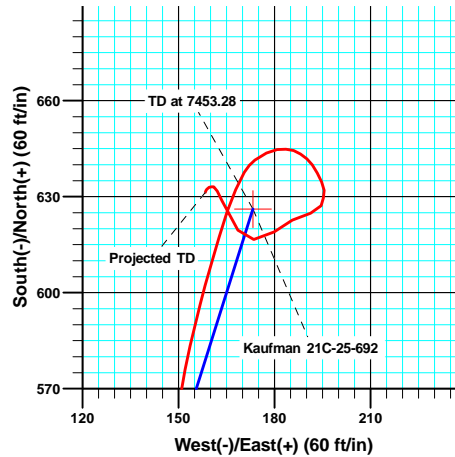
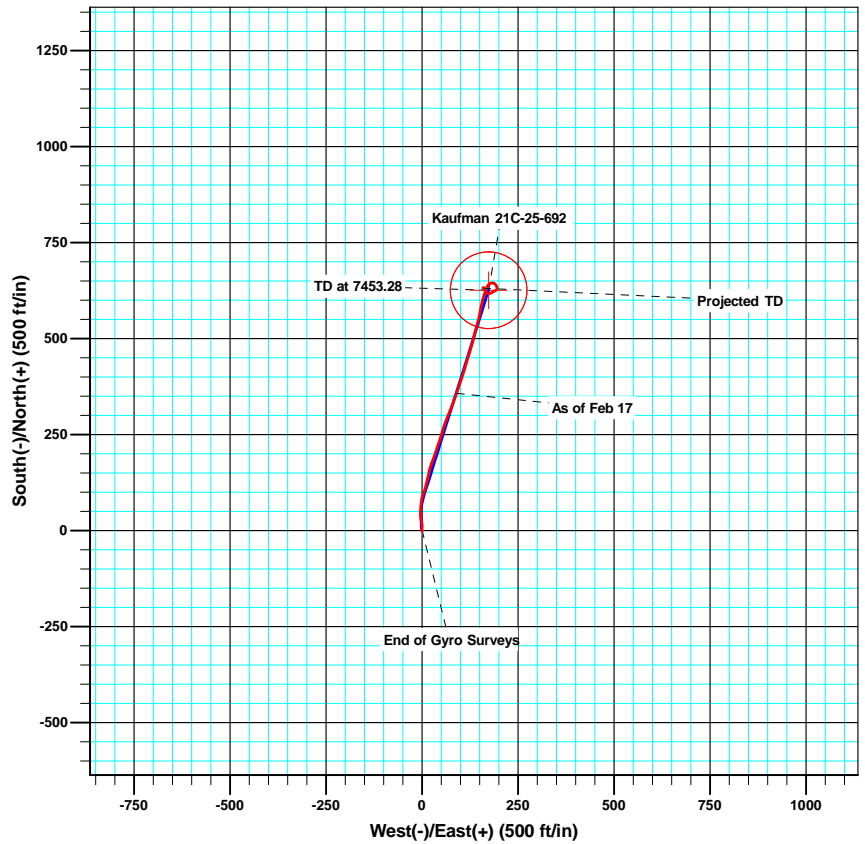
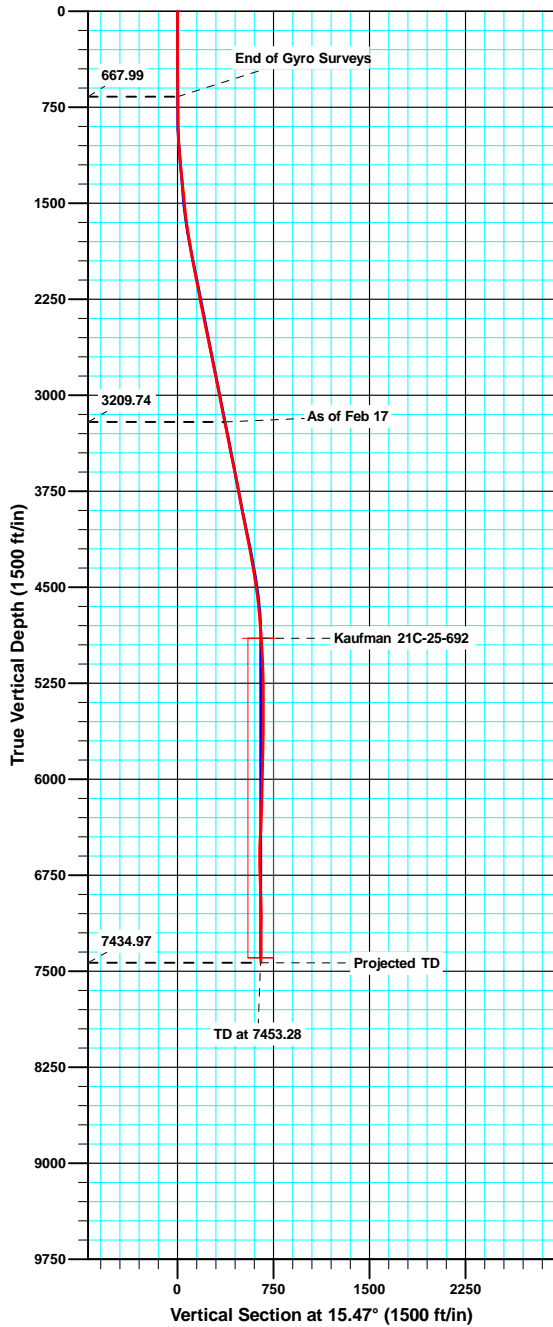
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone

Ground Level: 5840.01

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1614860.77 2402301.58 39° 30' 8.78 N 107° 37' 6.16 W



Bill Barrett Corporation



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
667.99	668.00	0.420	317.43	1.69	-0.40	1.52	3.04	End of Gyro Surveys
3209.74	3242.00	11.000	19.90	357.63	89.68	368.60	374.72	As of Feb 17
7434.97	7495.00	0.800	199.30	631.34	158.39	650.71	756.80	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 21C-25-692
Project:	Garfield Co., CO (NAD83)	TVD Reference:	WELL @ 5863.01ft
Site:	Kaufman Pad #2 (Sec.25-T6S-R92W)	MD Reference:	WELL @ 5863.01ft
Well:	Kaufman 21C-25-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

Project	Garfield Co., CO (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 Pad #2 (Sec.25-T6S-R92W)			
Site Position:		Northing:	1,614,814.17 usft	Latitude:	39° 30' 8.31 N
From:	Lat/Long	Easting:	2,402,284.69 usft	Longitude:	107° 37' 6.36 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.34 °

Well	Kaufman 21C-25-692					
Well Position	+N/-S	0.00 ft	Northing:	1,614,860.77 usft	Latitude:	39° 30' 8.78 N
	+E/-W	0.00 ft	Easting:	2,402,301.58 usft	Longitude:	107° 37' 6.16 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,840.01 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/10/2012	10.11	65.80	52,246

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	15.47	

Survey Program	Date	2/20/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
123.00	668.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
786.00	7,495.00	MWD (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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
123.00	0.440	268.13	123.00	-0.02	-0.47	-0.14	0.36	0.36	0.00	
223.00	0.380	53.83	223.00	0.17	-0.59	0.00	0.78	-0.06	145.70	
323.00	0.110	60.34	323.00	0.41	-0.24	0.33	0.27	-0.27	6.51	
423.00	0.060	36.03	423.00	0.50	-0.12	0.45	0.06	-0.05	-24.31	
523.00	0.250	359.48	523.00	0.76	-0.09	0.71	0.20	0.19	-36.55	
623.00	0.490	341.92	623.00	1.39	-0.23	1.27	0.26	0.24	-17.56	
668.00	0.420	317.43	667.99	1.69	-0.40	1.52	0.46	-0.16	-54.42	
786.00	0.300	6.90	785.99	2.32	-0.66	2.06	0.27	-0.10	41.92	
878.00	1.800	5.20	877.97	3.99	-0.50	3.72	1.63	1.63	-1.85	

Sharewell

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Site:	Kaufman Pad #2 (Sec.25-T6S-R92W)	MD Reference:	WELL @ 5863.01ft
Well:	Kaufman 21C-25-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

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)
970.00	1.800	4.80	969.93	6.87	-0.24	6.56	0.01	0.00	-0.43
1,065.00	4.000	1.10	1,064.80	11.67	-0.06	11.24	2.32	2.32	-3.89
1,160.00	5.900	351.40	1,159.44	19.81	-0.72	18.90	2.18	2.00	-10.21
1,255.00	6.200	347.10	1,253.91	29.64	-2.60	27.88	0.57	0.32	-4.53
1,350.00	6.300	0.90	1,348.35	39.86	-3.66	37.44	1.58	0.11	14.53
1,445.00	5.800	1.70	1,442.83	49.87	-3.44	47.14	0.53	-0.53	0.84
1,537.00	5.800	359.00	1,534.35	59.16	-3.38	56.12	0.30	0.00	-2.93
1,632.00	7.100	5.00	1,628.75	69.81	-2.95	66.49	1.54	1.37	6.32
1,726.00	8.600	12.70	1,721.87	82.45	-0.90	79.23	1.95	1.60	8.19
1,821.00	10.100	21.30	1,815.61	97.14	3.69	94.61	2.15	1.58	9.05
1,916.00	11.200	15.20	1,908.98	113.81	9.13	112.12	1.66	1.16	-6.42
2,011.00	10.600	12.70	2,002.26	131.24	13.47	130.08	0.80	-0.63	-2.63
2,106.00	10.200	11.40	2,095.70	148.01	17.06	147.20	0.49	-0.42	-1.37
2,201.00	10.600	17.90	2,189.14	164.57	21.41	164.32	1.30	0.42	6.84
2,296.00	11.200	20.80	2,282.43	181.51	27.37	182.23	0.86	0.63	3.05
2,390.00	10.500	17.90	2,374.75	198.19	33.24	199.88	0.94	-0.74	-3.09
2,485.00	12.300	20.00	2,467.87	215.94	39.36	218.62	1.94	1.89	2.21
2,580.00	12.100	18.30	2,560.73	234.90	45.95	238.65	0.43	-0.21	-1.79
2,674.00	12.000	16.90	2,652.66	253.61	51.88	258.26	0.33	-0.11	-1.49
2,768.00	11.300	15.20	2,744.72	271.84	57.14	277.24	0.83	-0.74	-1.81
2,863.00	11.500	23.10	2,837.85	289.54	63.30	295.93	1.66	0.21	8.32
2,957.00	11.200	21.90	2,930.01	306.63	70.38	314.29	0.41	-0.32	-1.28
3,052.00	10.800	21.40	3,023.27	323.47	77.07	332.31	0.43	-0.42	-0.53
3,147.00	11.200	19.90	3,116.52	340.44	83.45	350.36	0.52	0.42	-1.58
3,242.00	11.000	19.90	3,209.74	357.63	89.68	368.60	0.21	-0.21	0.00
3,337.00	11.800	19.20	3,302.87	375.33	95.96	387.33	0.85	0.84	-0.74
3,432.00	11.000	18.50	3,395.99	393.10	102.03	406.07	0.85	-0.84	-0.74
3,527.00	11.400	15.60	3,489.19	410.74	107.43	424.51	0.73	0.42	-3.05
3,621.00	11.800	16.50	3,581.27	428.90	112.66	443.41	0.47	0.43	0.96
3,716.00	11.500	17.10	3,674.31	447.26	118.20	462.59	0.34	-0.32	0.63
3,810.00	10.500	17.90	3,766.58	464.37	123.59	480.51	1.08	-1.06	0.85
3,905.00	10.200	16.40	3,860.03	480.68	128.63	497.57	0.42	-0.32	-1.58
4,000.00	10.900	12.80	3,953.43	497.51	132.99	514.95	1.01	0.74	-3.79
4,095.00	11.200	14.50	4,046.67	515.20	137.29	533.15	0.47	0.32	1.79
4,190.00	11.400	16.40	4,139.83	533.14	142.25	551.76	0.44	0.21	2.00
4,285.00	10.900	14.30	4,233.03	550.85	147.12	570.13	0.68	-0.53	-2.21
4,379.00	10.400	9.10	4,325.42	567.84	150.66	587.45	1.15	-0.53	-5.53
4,475.00	8.600	13.00	4,420.10	583.39	153.64	603.23	1.99	-1.88	4.06
4,569.00	7.700	14.20	4,513.15	596.34	156.77	616.55	0.97	-0.96	1.28
4,664.00	6.700	16.50	4,607.40	607.83	159.90	628.46	1.10	-1.05	2.42
4,759.00	5.400	15.50	4,701.87	617.45	162.67	638.47	1.37	-1.37	-1.05
4,853.00	4.800	19.70	4,795.49	625.41	165.18	646.81	0.75	-0.64	4.47
4,948.00	4.000	23.20	4,890.21	632.20	167.83	654.06	0.89	-0.84	3.68

Sharewell

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Site:	Kaufman Pad #2 (Sec.25-T6S-R92W)	MD Reference:	WELL @ 5863.01ft
Well:	Kaufman 21C-25-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

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)
5,043.00	3.400	30.80	4,985.01	637.66	170.57	660.06	0.81	-0.63	8.00
5,138.00	2.700	53.80	5,079.88	641.41	173.82	664.53	1.47	-0.74	24.21
5,232.00	2.500	63.60	5,173.79	643.63	177.45	667.64	0.52	-0.21	10.43
5,327.00	1.800	82.90	5,268.72	644.73	180.78	669.59	1.05	-0.74	20.32
5,422.00	1.600	91.80	5,363.68	644.87	183.59	670.48	0.35	-0.21	9.37
5,517.00	1.400	110.70	5,458.65	644.42	186.00	670.69	0.56	-0.21	19.89
5,612.00	1.500	120.80	5,553.62	643.38	188.15	670.25	0.29	0.11	10.63
5,707.00	1.500	134.00	5,648.58	641.87	190.12	669.33	0.36	0.00	13.89
5,802.00	1.600	144.90	5,743.55	639.93	191.77	667.89	0.33	0.11	11.47
5,897.00	2.000	151.40	5,838.50	637.39	193.33	665.86	0.47	0.42	6.84
5,992.00	1.700	153.90	5,933.45	634.66	194.74	663.61	0.33	-0.32	2.63
6,086.00	1.700	173.90	6,027.41	632.03	195.50	661.27	0.63	0.00	21.28
6,181.00	1.300	199.30	6,122.38	629.61	195.30	658.89	0.81	-0.42	26.74
6,273.00	1.800	195.80	6,214.35	627.23	194.56	656.40	0.55	0.54	-3.80
6,368.00	3.700	252.00	6,309.25	624.85	191.24	653.22	3.25	2.00	59.16
6,462.00	3.700	246.40	6,403.05	622.70	185.57	649.63	0.38	0.00	-5.96
6,557.00	4.600	229.30	6,497.81	618.99	179.88	644.54	1.60	0.95	-18.00
6,652.00	4.200	272.00	6,592.55	616.62	173.51	640.56	3.39	-0.42	44.95
6,747.00	3.800	332.70	6,687.36	619.54	168.59	642.06	4.27	-0.42	63.89
6,842.00	3.200	329.80	6,782.18	624.63	165.81	646.23	0.66	-0.63	-3.05
6,937.00	2.400	334.50	6,877.07	628.72	163.62	649.58	0.88	-0.84	4.95
7,032.00	1.700	331.70	6,972.00	631.75	162.09	652.10	0.74	-0.74	-2.95
7,127.00	0.500	281.30	7,066.99	633.08	161.02	653.09	1.51	-1.26	-53.05
7,222.00	0.400	261.50	7,161.98	633.11	160.28	652.93	0.19	-0.11	-20.84
7,316.00	0.500	255.90	7,255.98	632.96	159.56	652.59	0.12	0.11	-5.96
7,411.00	0.700	215.70	7,350.98	632.39	158.82	651.84	0.48	0.21	-42.32
7,445.00	0.800	199.30	7,384.97	632.00	158.62	651.41	0.69	0.29	-48.24
7,495.00	0.800	199.30	7,434.97	631.34	158.39	650.71	0.00	0.00	0.00

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
668.00	667.99	1.69	-0.40	End of Gyro Surveys
3,242.00	3,209.74	357.63	89.68	As of Feb 17
7,495.00	7,434.97	631.34	158.39	Projected TD

Checked By: _____ Approved By: _____ Date: _____