

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

Kaufman 12D-25-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

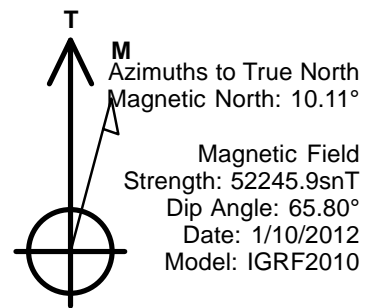
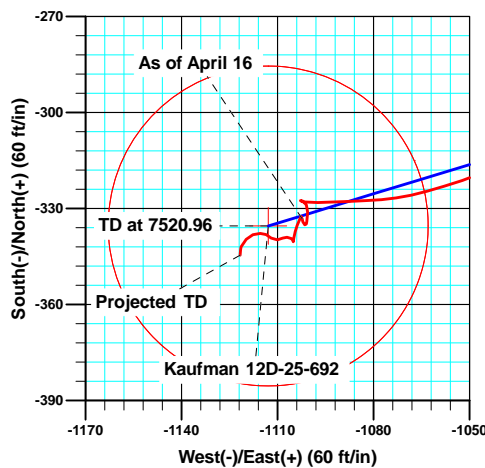
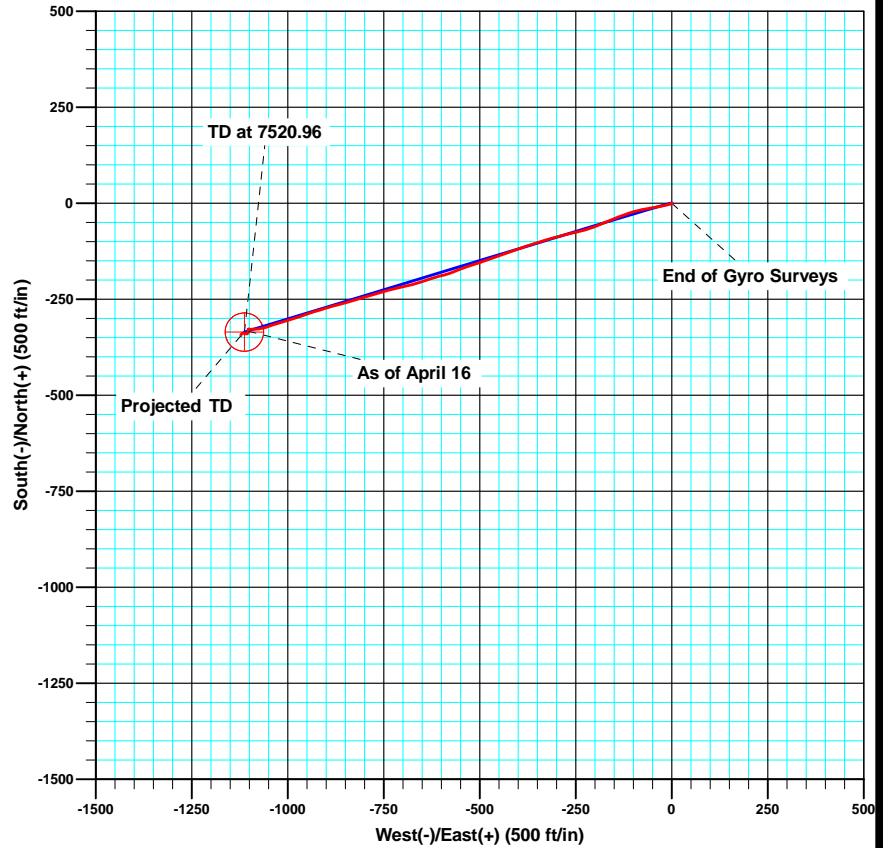
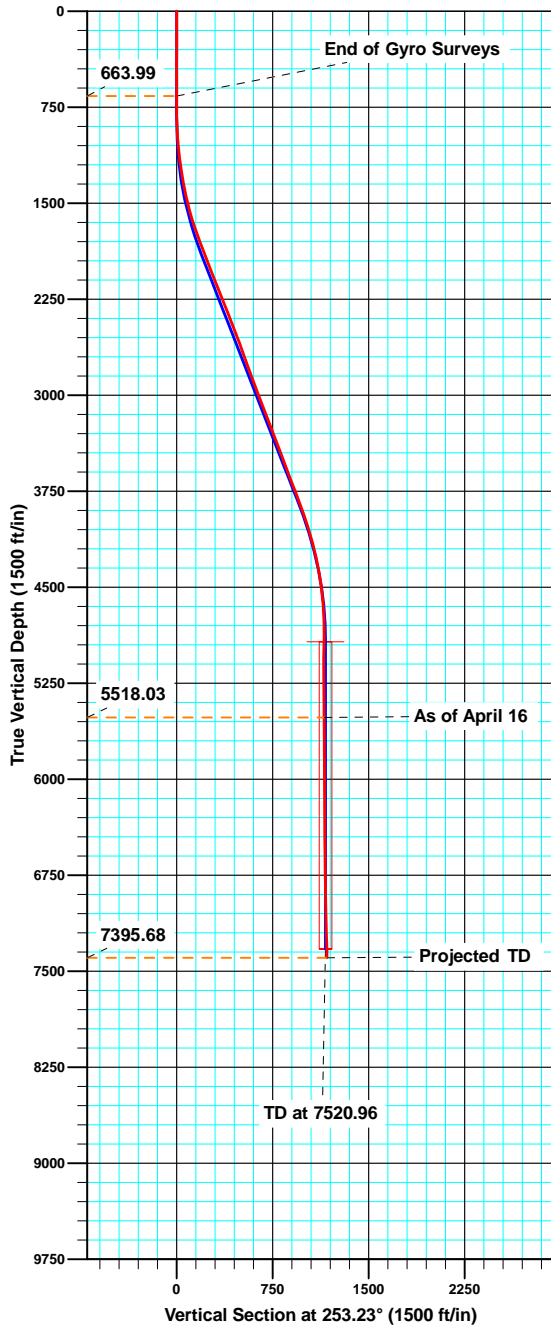
17 April, 2012

WELL DETAILS: Kaufman 12D-25-692

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

Ground Level: 5840.01

+N/-S 0.00 +E/-W 0.00 Northing 1614819.82 Easting 2402276.63 Latitude 39° 30' 8.37 N Longitude 107° 37' 6.47 W



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
663.99	664.00	0.260	6.20	-0.20	0.72	-0.64	2.59	End of Gyro Surveys
5518.03	5708.00	0.700	353.90	-333.22	-1102.26	1151.53	1169.89	As of April 16
7395.68	7586.00	2.000	183.50	-344.54	-1121.67	1173.38	1202.86	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 12D-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 12D-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 12D-25-692					
Well Position	+N/-S	0.00 ft	Northing:	1,614,819.81 usft	Latitude:	39° 30' 8.37 N
	+E/-W	0.00 ft	Easting:	2,402,276.64 usft	Longitude:	107° 37' 6.47 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	253.23	

Survey Program	Date	4/17/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
123.00	664.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
787.00	7,586.00	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	0.150	351.80	123.00	0.16	-0.02	-0.02	0.12	0.12	0.00	
223.00	0.300	74.73	223.00	0.36	0.21	-0.31	0.32	0.15	82.93	
323.00	0.500	121.37	323.00	0.20	0.84	-0.86	0.37	0.20	46.64	
423.00	0.180	202.88	423.00	-0.17	1.15	-1.05	0.51	-0.32	81.51	
523.00	0.200	250.43	523.00	-0.38	0.92	-0.77	0.15	0.02	47.55	
623.00	0.120	343.01	623.00	-0.33	0.73	-0.60	0.24	-0.08	92.58	
664.00	0.260	6.20	664.00	-0.20	0.72	-0.64	0.38	0.34	56.56	
787.00	0.400	182.60	786.99	-0.35	0.74	-0.60	0.54	0.11	143.42	
880.00	2.100	252.20	879.97	-1.20	-0.90	1.21	2.15	1.83	74.84	

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Site:	Kaufman Pad #2 (Sec.25-T6S-R92W)	MD Reference:	WELL @ 5863.01ft
Well:	Kaufman 12D-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)
972.00	3.300	257.10	971.87	-2.30	-5.09	5.54	1.33	1.30	5.33
1,066.00	5.900	257.30	1,065.56	-3.97	-12.44	13.06	2.77	2.77	0.21
1,161.00	6.900	255.90	1,159.96	-6.43	-22.74	23.63	1.07	1.05	-1.47
1,256.00	9.800	258.80	1,253.95	-9.39	-36.21	37.38	3.08	3.05	3.05
1,351.00	9.700	260.60	1,347.57	-12.27	-52.03	53.36	0.34	-0.11	1.89
1,446.00	12.300	261.50	1,440.82	-15.08	-69.94	71.31	2.74	2.74	0.95
1,539.00	14.600	254.70	1,531.27	-19.63	-91.05	92.84	3.00	2.47	-7.31
1,633.00	17.100	251.10	1,621.69	-27.24	-115.55	118.50	2.86	2.66	-3.83
1,728.00	20.100	248.30	1,711.72	-37.80	-143.94	148.73	3.29	3.16	-2.95
1,823.00	20.500	246.90	1,800.82	-50.36	-174.41	181.52	0.66	0.42	-1.47
1,918.00	20.900	249.70	1,889.69	-62.77	-205.60	214.97	1.12	0.42	2.95
2,012.00	20.700	256.60	1,977.58	-72.44	-237.50	248.30	2.61	-0.21	7.34
2,107.00	21.300	256.30	2,066.27	-80.41	-270.59	282.29	0.64	0.63	-0.32
2,202.00	21.700	255.50	2,154.66	-88.90	-304.36	317.07	0.52	0.42	-0.84
2,297.00	22.200	252.70	2,242.77	-98.63	-338.50	352.56	1.22	0.53	-2.95
2,392.00	21.800	251.70	2,330.85	-109.51	-372.38	388.14	0.58	-0.42	-1.05
2,486.00	21.400	250.80	2,418.25	-120.63	-405.15	422.73	0.55	-0.43	-0.96
2,581.00	20.800	250.10	2,506.88	-132.07	-437.38	456.88	0.69	-0.63	-0.74
2,675.00	20.000	250.80	2,594.99	-143.04	-468.25	489.61	0.89	-0.85	0.74
2,769.00	20.100	251.30	2,683.29	-153.50	-498.73	521.81	0.21	0.11	0.53
2,864.00	20.000	251.30	2,772.53	-163.95	-529.58	554.37	0.11	-0.11	0.00
2,959.00	20.100	247.70	2,861.78	-175.35	-560.08	586.85	1.30	0.11	-3.79
3,054.00	20.900	253.30	2,950.77	-186.41	-591.41	620.05	2.23	0.84	5.89
3,149.00	21.100	254.40	3,039.46	-195.88	-624.11	654.09	0.47	0.21	1.16
3,243.00	20.600	251.40	3,127.31	-205.71	-656.08	687.54	1.25	-0.53	-3.19
3,338.00	21.600	257.60	3,215.95	-214.79	-689.01	721.68	2.57	1.05	6.53
3,434.00	21.400	256.20	3,305.27	-222.77	-723.27	756.79	0.57	-0.21	-1.46
3,528.00	20.500	254.20	3,393.06	-231.34	-755.77	790.37	1.22	-0.96	-2.13
3,622.00	19.700	252.40	3,481.33	-240.61	-786.71	822.67	1.08	-0.85	-1.91
3,717.00	20.700	254.30	3,570.49	-250.00	-818.13	855.47	1.26	1.05	2.00
3,812.00	21.100	254.40	3,659.24	-259.14	-850.77	889.36	0.42	0.42	0.11
3,906.00	21.400	253.80	3,746.85	-268.47	-883.53	923.42	0.39	0.32	-0.64
4,001.00	20.100	254.20	3,835.68	-277.75	-915.89	957.07	1.38	-1.37	0.42
4,096.00	19.200	251.00	3,925.15	-287.28	-946.36	989.01	1.48	-0.95	-3.37
4,191.00	17.600	251.80	4,015.29	-296.86	-974.78	1,018.98	1.71	-1.68	0.84
4,286.00	16.000	253.00	4,106.23	-305.17	-1,000.95	1,046.43	1.72	-1.68	1.26
4,381.00	14.800	253.70	4,197.82	-312.40	-1,025.11	1,071.66	1.28	-1.26	0.74
4,476.00	12.100	250.60	4,290.21	-319.12	-1,046.16	1,093.74	2.94	-2.84	-3.26
4,571.00	9.700	254.30	4,383.49	-324.59	-1,063.25	1,111.69	2.63	-2.53	3.89
4,665.00	8.100	266.10	4,476.36	-327.19	-1,077.49	1,126.07	2.57	-1.70	12.55
4,760.00	5.900	267.70	4,570.65	-327.84	-1,089.05	1,137.32	2.32	-2.32	1.68
4,854.00	4.300	268.60	4,664.27	-328.12	-1,097.40	1,145.40	1.70	-1.70	0.96
4,949.00	1.200	287.80	4,759.15	-327.90	-1,101.90	1,149.65	3.36	-3.26	20.21

Sharewell

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

Survey										
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5,044.00	0.100	4.70	4,854.15	-327.51	-1,102.85	1,150.44	1.24	-1.16	80.95	
5,139.00	0.900	109.90	4,949.14	-327.68	-1,102.14	1,149.81	0.98	0.84	110.74	
5,234.00	1.300	153.80	5,044.13	-328.91	-1,100.96	1,149.04	0.95	0.42	46.21	
5,329.00	1.500	186.20	5,139.10	-331.11	-1,100.62	1,149.34	0.85	0.21	34.11	
5,424.00	2.000	183.10	5,234.05	-334.00	-1,100.84	1,150.39	0.54	0.53	-3.26	
5,518.00	1.000	316.00	5,328.04	-335.05	-1,101.50	1,151.33	2.96	-1.06	141.38	
5,613.00	0.400	349.10	5,423.03	-334.13	-1,102.14	1,151.67	0.74	-0.63	34.84	
5,708.00	0.700	353.90	5,518.03	-333.22	-1,102.26	1,151.53	0.32	0.32	5.05	
5,803.00	0.400	295.70	5,613.02	-332.50	-1,102.62	1,151.67	0.63	-0.32	-61.26	
5,898.00	0.400	129.60	5,708.02	-332.57	-1,102.67	1,151.73	0.84	0.00	-174.84	
5,993.00	0.500	242.80	5,803.02	-332.97	-1,102.78	1,151.95	0.79	0.11	119.16	
6,088.00	0.500	177.30	5,898.02	-333.57	-1,103.13	1,152.46	0.57	0.00	-68.95	
6,182.00	0.900	218.10	5,992.01	-334.57	-1,103.57	1,153.16	0.65	0.43	43.40	
6,274.00	1.100	192.50	6,084.00	-336.00	-1,104.20	1,154.19	0.53	0.22	-27.83	
6,369.00	2.100	190.70	6,178.96	-338.60	-1,104.72	1,155.44	1.05	1.05	-1.89	
6,464.00	0.100	240.40	6,273.94	-340.35	-1,105.12	1,156.32	2.14	-2.11	52.32	
6,559.00	0.400	10.40	6,368.94	-340.06	-1,105.13	1,156.25	0.50	0.32	136.84	
6,653.00	0.900	296.40	6,462.93	-339.41	-1,105.73	1,156.64	0.93	0.53	-78.72	
6,748.00	0.800	278.70	6,557.92	-338.98	-1,107.06	1,157.78	0.29	-0.11	-18.63	
6,843.00	0.900	242.20	6,652.91	-339.23	-1,108.37	1,159.11	0.57	0.11	-38.42	
6,938.00	1.200	260.80	6,747.89	-339.73	-1,110.01	1,160.83	0.47	0.32	19.58	
7,033.00	1.500	304.50	6,842.87	-339.19	-1,112.02	1,162.59	1.10	0.32	46.00	
7,128.00	0.800	304.50	6,937.85	-338.11	-1,113.59	1,163.79	0.74	-0.74	0.00	
7,223.00	1.500	268.00	7,032.83	-337.78	-1,115.38	1,165.40	1.03	0.74	-38.42	
7,318.00	1.400	252.70	7,127.80	-338.17	-1,117.73	1,167.77	0.42	-0.11	-16.11	
7,413.00	1.800	221.30	7,222.77	-339.63	-1,119.82	1,170.19	1.00	0.42	-33.05	
7,508.00	1.600	205.10	7,317.72	-341.95	-1,121.37	1,172.35	0.55	-0.21	-17.05	
7,536.00	2.000	183.50	7,345.71	-342.80	-1,121.57	1,172.78	2.79	1.43	-77.14	
7,586.00	2.000	183.50	7,395.68	-344.54	-1,121.67	1,173.38	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
664.00	663.99	-0.20	0.72	End of Gyro Surveys	
5,708.00	5,518.03	-333.22	-1,102.26	As of April 16	
7,586.00	7,395.68	-344.54	-1,121.67	Projected TD	

Checked By: _____	Approved By: _____	Date: _____
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