

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

Kaufman 21A-25-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

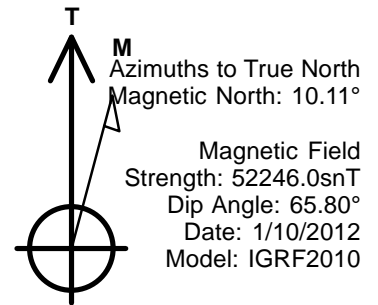
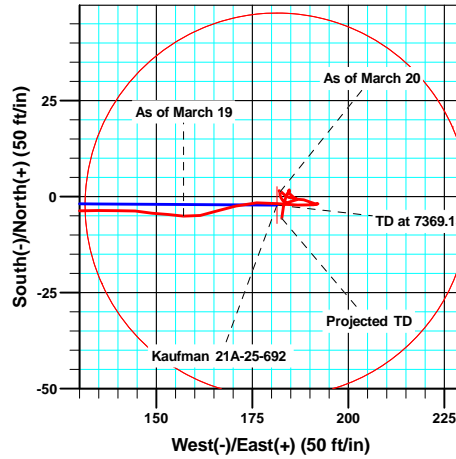
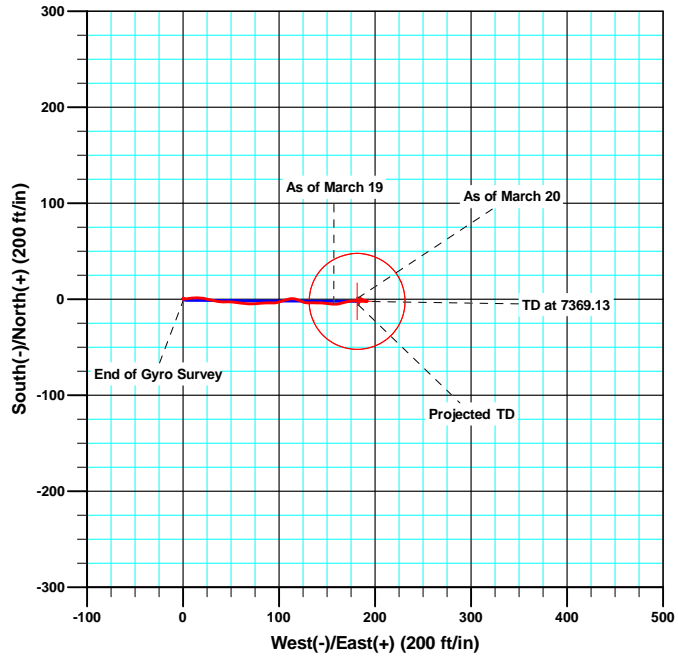
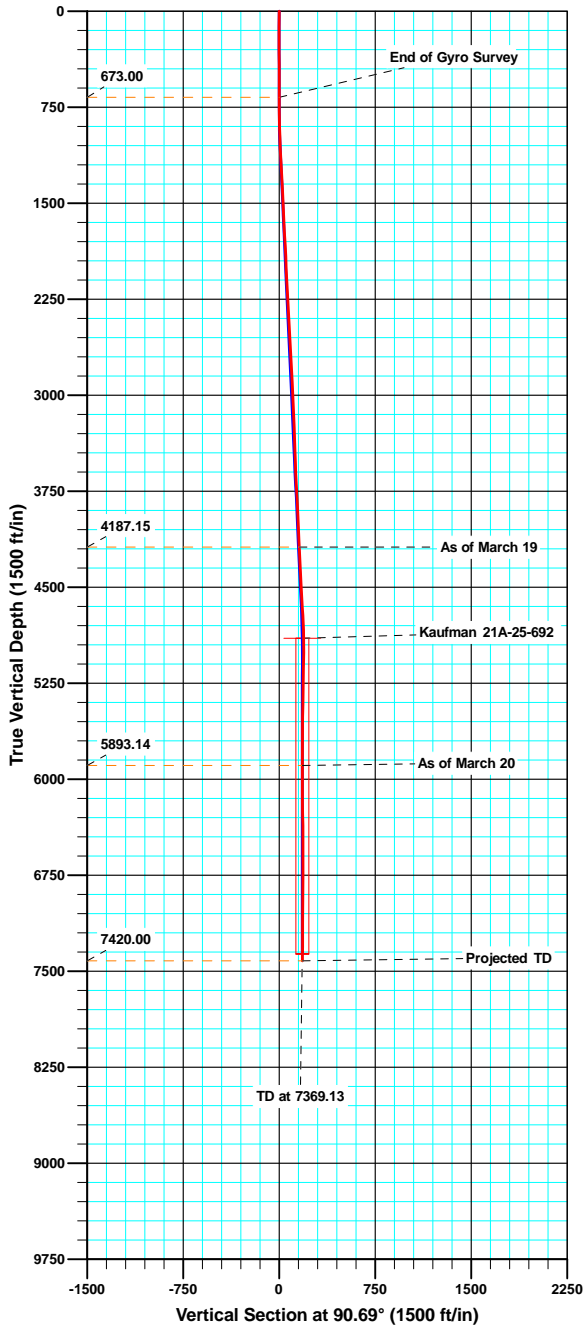
21 March, 2012

WELL DETAILS: Kaufman 21A-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 1614834.27 Easting 2402297.29 Latitude 39° 30' 8.51 N Longitude 107° 37' 6.21 W



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation
673.00	673.00	0.440	165.13	0.96	1.13	1.12	2.36	End of Gyro Survey
4187.15	4191.00	2.500	102.10	-5.01	157.07	157.12	162.04	As of March 19
5893.14	5898.00	0.400	359.00	1.23	182.17	182.14	211.26	As of March 20
7420.00	7425.00	1.800	188.50	-5.64	182.65	182.71	229.72	Projected TD

Sharewell

Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Kaufman 21A-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 21A-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 21A-25-692					
Well Position	+N/-S	0.00 ft	Northing:	1,614,834.27 usft	Latitude: 39° 30' 8.51 N
	+E/-W	0.00 ft	Easting:	2,402,297.30 usft	Longitude: 107° 37' 6.21 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	90.69	

Survey Program		Date 3/21/2012
From (ft)	To (ft)	Survey (Wellbore)
123.00	673.00	Survey #1 (Wellbore #1)
787.00	7,425.00	MWD (Wellbore #1)
		Tool Name
		NS-GYRO-MS
		Description
		North sensing gyrocompassing m/s
		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	0.00
123.00	0.110	335.08	123.00	0.11	-0.05	-0.05	0.09	0.09	0.00	
223.00	0.280	351.76	223.00	0.44	-0.13	-0.13	0.18	0.17	16.68	
323.00	0.110	15.53	323.00	0.77	-0.13	-0.14	0.18	-0.17	23.77	
423.00	0.270	56.73	423.00	0.99	0.09	0.08	0.20	0.16	41.20	
523.00	0.250	82.25	523.00	1.15	0.50	0.49	0.12	-0.02	25.52	
623.00	0.280	94.70	623.00	1.16	0.96	0.95	0.06	0.03	12.45	
673.00	0.440	165.13	673.00	0.96	1.13	1.12	0.87	0.32	140.86	
787.00	0.300	180.40	786.99	0.24	1.24	1.24	0.15	-0.12	13.39	
879.00	1.500	79.10	878.98	0.23	2.42	2.42	1.72	1.30	-110.11	

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 21A-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 21A-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)
974.00	1.800	81.50	973.94	0.69	5.12	5.11	0.32	0.32	2.53
1,066.00	2.900	86.90	1,065.86	1.02	8.87	8.86	1.22	1.20	5.87
1,161.00	3.000	79.80	1,160.74	1.60	13.72	13.70	0.40	0.11	-7.47
1,256.00	2.700	105.00	1,255.62	1.46	18.33	18.31	1.34	-0.32	26.53
1,351.00	3.100	95.60	1,350.50	0.63	23.05	23.04	0.65	0.42	-9.89
1,446.00	3.300	106.90	1,445.36	-0.42	28.22	28.22	0.70	0.21	11.89
1,539.00	2.400	100.10	1,538.24	-1.54	32.70	32.71	1.03	-0.97	-7.31
1,633.00	2.700	100.00	1,632.15	-2.27	36.81	36.84	0.32	0.32	-0.11
1,728.00	3.400	90.20	1,727.01	-2.67	41.83	41.86	0.92	0.74	-10.32
1,823.00	2.700	87.30	1,821.88	-2.57	46.89	46.91	0.75	-0.74	-3.05
1,918.00	2.500	97.90	1,916.78	-2.75	51.17	51.20	0.55	-0.21	11.16
2,012.00	2.200	93.50	2,010.70	-3.14	55.01	55.04	0.37	-0.32	-4.68
2,107.00	3.300	102.70	2,105.59	-3.85	59.49	59.54	1.24	1.16	9.68
2,202.00	2.200	91.80	2,200.48	-4.51	63.98	64.03	1.28	-1.16	-11.47
2,297.00	3.500	90.30	2,295.36	-4.59	68.71	68.76	1.37	1.37	-1.58
2,392.00	3.700	88.60	2,390.17	-4.53	74.67	74.72	0.24	0.21	-1.79
2,486.00	3.600	84.60	2,483.98	-4.17	80.64	80.68	0.29	-0.11	-4.26
2,581.00	3.300	85.50	2,578.81	-3.68	86.34	86.37	0.32	-0.32	0.95
2,675.00	2.800	97.90	2,672.68	-3.78	91.31	91.35	0.88	-0.53	13.19
2,769.00	2.900	82.80	2,766.56	-3.80	95.94	95.98	0.80	0.11	-16.06
2,864.00	2.800	68.20	2,861.45	-2.64	100.48	100.50	0.77	-0.11	-15.37
2,959.00	2.400	75.20	2,956.35	-1.27	104.56	104.56	0.54	-0.42	7.37
3,054.00	2.600	75.90	3,051.26	-0.23	108.57	108.56	0.21	0.21	0.74
3,149.00	2.500	78.20	3,146.17	0.71	112.69	112.67	0.15	-0.11	2.42
3,244.00	2.200	107.70	3,241.09	0.58	116.45	116.44	1.30	-0.32	31.05
3,338.00	2.700	110.60	3,335.00	-0.74	120.24	120.24	0.55	0.53	3.09
3,433.00	1.600	116.60	3,429.93	-2.12	123.52	123.54	1.18	-1.16	6.32
3,528.00	1.800	114.10	3,524.89	-3.33	126.07	126.10	0.22	0.21	-2.63
3,622.00	3.000	83.50	3,618.81	-3.65	129.86	129.90	1.83	1.28	-32.55
3,717.00	2.900	94.70	3,713.69	-3.57	134.73	134.76	0.61	-0.11	11.79
3,811.00	3.200	87.10	3,807.55	-3.63	139.72	139.75	0.53	0.32	-8.09
3,906.00	2.600	95.70	3,902.43	-3.71	144.51	144.55	0.78	-0.63	9.05
4,001.00	2.700	99.40	3,997.33	-4.29	148.86	148.90	0.21	0.11	3.89
4,096.00	2.400	88.90	4,092.24	-4.62	153.06	153.10	0.58	-0.32	-11.05
4,191.00	2.500	102.10	4,187.15	-5.01	157.07	157.12	0.60	0.11	13.89
4,286.00	2.900	76.20	4,282.05	-4.87	161.43	161.48	1.34	0.42	-27.26
4,381.00	2.700	73.50	4,376.94	-3.66	165.91	165.95	0.25	-0.21	-2.84
4,476.00	3.300	77.10	4,471.80	-2.42	170.72	170.74	0.66	0.63	3.79
4,571.00	3.300	84.90	4,566.65	-1.57	176.11	176.12	0.47	0.00	8.21
4,665.00	3.300	99.50	4,660.49	-1.77	181.48	181.48	0.89	0.00	15.53
4,760.00	3.200	89.30	4,755.34	-2.19	186.82	186.84	0.62	-0.11	-10.74
4,855.00	1.800	87.30	4,850.25	-2.09	190.97	190.98	1.48	-1.47	-2.11
4,949.00	0.500	298.90	4,944.24	-1.82	192.08	192.09	2.38	-1.38	-157.87

Sharewell

Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Kaufman 21A-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 21A-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)	
5,044.00	0.400	223.20	5,039.23	-1.86	191.49	191.50	0.59	-0.11	-79.68	
5,139.00	1.400	302.00	5,134.22	-1.49	190.28	190.29	1.45	1.05	82.95	
5,234.00	1.100	275.60	5,229.20	-0.78	188.39	188.39	0.67	-0.32	-27.79	
5,329.00	0.700	274.30	5,324.19	-0.65	186.90	186.90	0.42	-0.42	-1.37	
5,424.00	1.100	240.00	5,419.18	-1.06	185.53	185.53	0.69	0.42	-36.11	
5,518.00	0.900	267.00	5,513.16	-1.55	184.02	184.02	0.54	-0.21	28.72	
5,613.00	0.700	334.70	5,608.16	-1.07	183.02	183.02	0.95	-0.21	71.26	
5,708.00	0.400	312.70	5,703.15	-0.32	182.53	182.52	0.38	-0.32	-23.16	
5,803.00	0.600	353.30	5,798.15	0.40	182.23	182.21	0.42	0.21	42.74	
5,898.00	0.400	359.00	5,893.14	1.23	182.17	182.14	0.22	-0.21	6.00	
5,993.00	0.200	280.10	5,988.14	1.59	182.00	181.96	0.43	-0.21	-83.05	
6,087.00	0.300	115.20	6,082.14	1.51	182.06	182.03	0.53	0.11	-175.43	
6,182.00	0.400	122.60	6,177.14	1.23	182.56	182.53	0.12	0.11	7.79	
6,274.00	1.100	135.00	6,269.13	0.43	183.46	183.44	0.78	0.76	13.48	
6,369.00	0.500	84.00	6,364.12	-0.17	184.51	184.50	0.92	-0.63	-53.68	
6,464.00	1.000	103.00	6,459.12	-0.32	185.73	185.72	0.58	0.53	20.00	
6,559.00	0.100	145.40	6,554.11	-0.57	186.59	186.58	0.98	-0.95	44.63	
6,654.00	1.200	298.50	6,649.10	-0.16	185.76	185.75	1.36	1.16	161.16	
6,748.00	0.600	340.80	6,743.09	0.77	184.73	184.71	0.91	-0.64	45.00	
6,843.00	0.400	333.30	6,838.09	1.54	184.42	184.39	0.22	-0.21	-7.89	
6,938.00	0.400	97.50	6,933.09	1.79	184.60	184.57	0.74	0.00	130.74	
7,033.00	0.400	230.10	7,028.09	1.53	184.68	184.64	0.77	0.00	139.58	
7,128.00	0.700	208.00	7,123.08	0.81	184.15	184.13	0.38	0.32	-23.26	
7,223.00	0.900	199.90	7,218.07	-0.41	183.62	183.61	0.24	0.21	-8.53	
7,318.00	1.600	189.60	7,313.05	-2.42	183.15	183.16	0.77	0.74	-10.84	
7,375.00	1.800	188.50	7,370.03	-4.09	182.88	182.92	0.36	0.35	-1.93	
7,425.00	1.800	188.50	7,420.00	-5.64	182.65	182.71	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
673.00	673.00	0.96	1.13	End of Gyro Survey	
4,191.00	4,187.15	-5.01	157.07	As of March 19	
5,898.00	5,893.14	1.23	182.17	As of March 20	
7,425.00	7,420.00	-5.64	182.65	Projected TD	

Checked By: _____ Approved By: _____ Date: _____