

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

Kaufman 31A-25-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

19 March, 2012

WELL DETAILS: Kaufman 31A-25-692

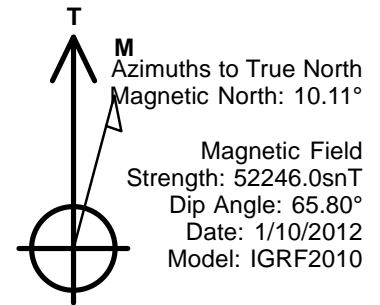
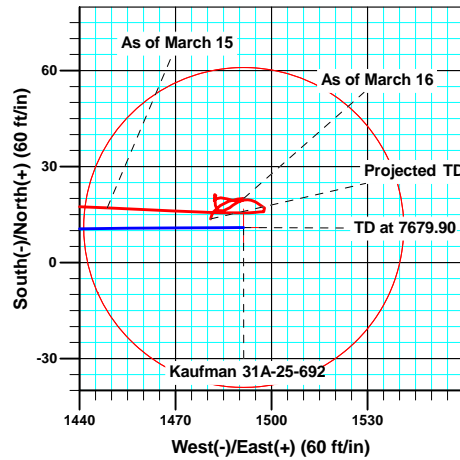
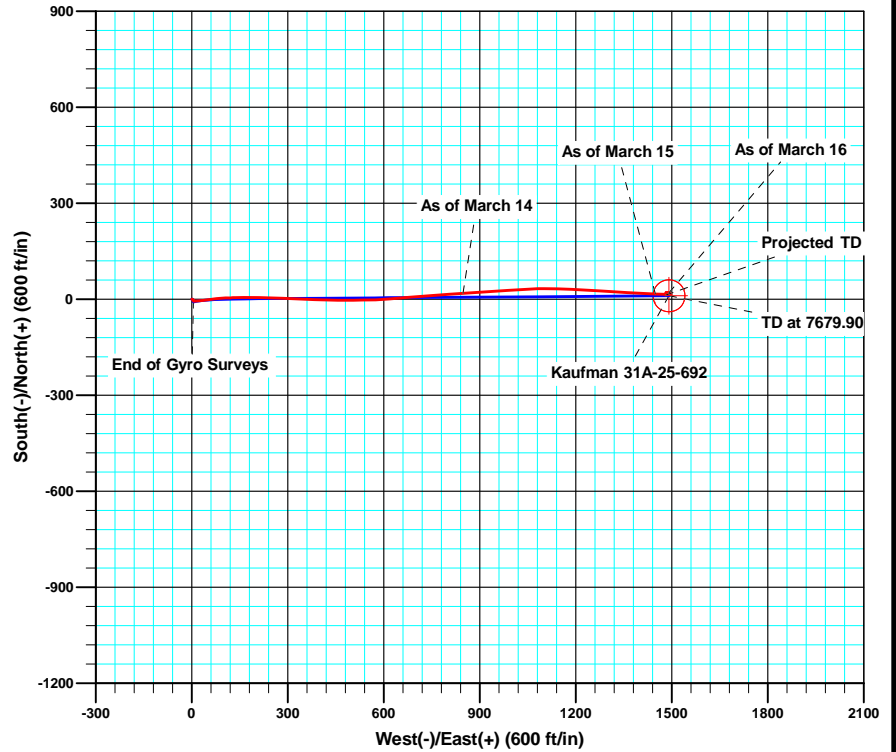
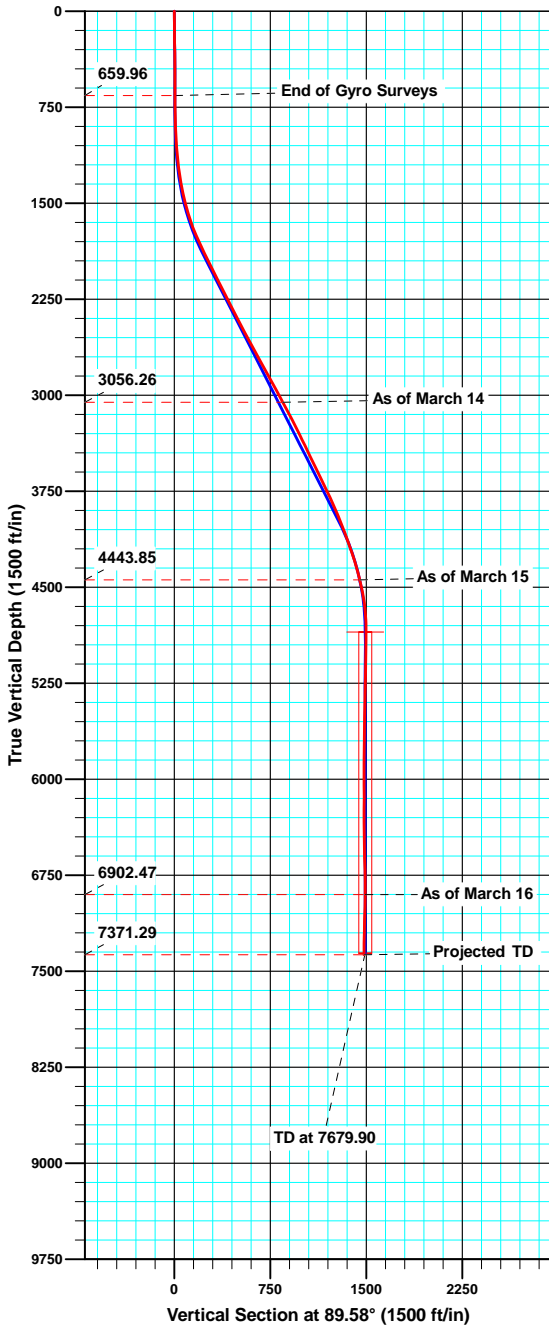
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone

Ground Level: 5840.01

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1614841.10 2402301.40 39° 30' 8.58 N 107° 37' 6.16 W



Bill Barrett Corporation



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
659.96	660.00	0.860	187.62	-3.74	4.81	4.79	7.30	End of Gyro Surveys
3056.26	3243.00	28.400	85.40	19.02	847.64	847.75	853.12	As of March 14
4443.85	4759.00	13.400	93.40	17.11	1448.65	1448.73	1455.08	As of March 15
6902.47	7222.00	0.800	278.00	20.01	1491.30	1491.41	1544.23	As of March 16
7371.29	7691.00	1.500	198.00	13.68	1480.97	1481.03	1557.32	Projected TD

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 31A-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 31A-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 31A-25-692					
Well Position	+N/-S	0.00 ft	Northing:	1,614,841.10 usft	Latitude:	39° 30' 8.58 N
	+E/-W	0.00 ft	Easting:	2,402,301.41 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	89.58	

Survey Program	Date	3/19/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
123.00	660.00	Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
787.00	7,691.00	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	0.720	73.95	123.00	0.21	0.74	0.74	0.59	0.59	0.00	
223.00	0.720	109.68	222.99	0.18	1.94	1.94	0.44	0.00	35.73	
323.00	0.640	124.83	322.98	-0.35	2.99	2.99	0.20	-0.08	15.15	
423.00	0.680	134.04	422.98	-1.09	3.87	3.87	0.11	0.04	9.21	
523.00	0.620	157.05	522.97	-2.00	4.51	4.50	0.27	-0.06	23.01	
623.00	0.820	172.49	622.96	-3.20	4.82	4.79	0.28	0.20	15.44	
660.00	0.860	187.62	659.96	-3.74	4.81	4.79	0.61	0.11	40.89	
787.00	0.500	135.30	786.95	-5.08	5.08	5.04	0.54	-0.28	-41.20	
879.00	2.000	92.90	878.93	-5.45	6.96	6.92	1.81	1.63	-46.09	

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Site:	Kaufman Pad #2 (Sec.25-T6S-R92W)	MD Reference:	WELL @ 5863.01ft
Well:	Kaufman 31A-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)
971.00	3.800	89.80	970.80	-5.52	11.61	11.57	1.96	1.96	-3.37
1,065.00	4.500	86.20	1,064.56	-5.26	18.41	18.37	0.79	0.74	-3.83
1,160.00	5.400	83.60	1,159.20	-4.52	26.57	26.54	0.98	0.95	-2.74
1,255.00	7.600	82.30	1,253.59	-3.18	37.24	37.21	2.32	2.32	-1.37
1,350.00	10.400	79.00	1,347.41	-0.70	51.88	51.88	3.00	2.95	-3.47
1,445.00	12.700	85.30	1,440.48	1.79	70.71	70.72	2.76	2.42	6.63
1,538.00	15.500	86.60	1,530.67	3.37	93.31	93.33	3.03	3.01	1.40
1,632.00	18.300	87.50	1,620.60	4.76	120.60	120.63	2.99	2.98	0.96
1,727.00	21.700	89.80	1,709.86	5.47	153.07	153.11	3.67	3.58	2.42
1,822.00	24.400	90.20	1,797.27	5.46	190.26	190.30	2.85	2.84	0.42
1,917.00	26.500	90.90	1,883.05	5.06	231.08	231.11	2.23	2.21	0.74
2,012.00	26.300	92.60	1,968.14	3.77	273.30	273.32	0.82	-0.21	1.79
2,107.00	26.200	93.20	2,053.34	1.65	315.26	315.27	0.30	-0.11	0.63
2,201.00	27.000	91.10	2,137.39	0.08	357.32	357.31	1.31	0.85	-2.23
2,296.00	26.700	92.90	2,222.15	-1.41	400.19	400.17	0.91	-0.32	1.89
2,391.00	27.600	89.80	2,306.69	-2.42	443.52	443.49	1.76	0.95	-3.26
2,485.00	27.700	88.90	2,389.96	-1.92	487.14	487.11	0.46	0.11	-0.96
2,580.00	27.200	91.10	2,474.26	-1.91	530.92	530.89	1.19	-0.53	2.32
2,674.00	27.900	87.90	2,557.61	-1.52	574.38	574.35	1.74	0.74	-3.40
2,768.00	29.100	85.00	2,640.22	1.28	619.13	619.13	1.95	1.28	-3.09
2,863.00	29.300	85.40	2,723.15	5.15	665.32	665.34	0.29	0.21	0.42
2,958.00	28.800	85.60	2,806.19	8.77	711.30	711.35	0.54	-0.53	0.21
3,053.00	28.800	85.90	2,889.44	12.17	756.95	757.01	0.15	0.00	0.32
3,148.00	28.600	85.70	2,972.77	15.51	802.44	802.54	0.23	-0.21	-0.21
3,243.00	28.400	85.40	3,056.26	19.02	847.64	847.75	0.26	-0.21	-0.32
3,337.00	27.600	87.00	3,139.26	21.96	891.67	891.80	1.17	-0.85	1.70
3,432.00	27.200	86.80	3,223.60	24.32	935.32	935.47	0.43	-0.42	-0.21
3,527.00	26.600	85.30	3,308.32	27.27	978.20	978.37	0.95	-0.63	-1.58
3,621.00	25.300	87.40	3,392.84	29.91	1,019.24	1,019.43	1.69	-1.38	2.23
3,716.00	25.900	86.20	3,478.52	32.21	1,060.22	1,060.43	0.83	0.63	-1.26
3,810.00	26.200	90.10	3,562.97	33.53	1,101.46	1,101.68	1.85	0.32	4.15
3,905.00	26.000	91.70	3,648.29	32.88	1,143.24	1,143.46	0.77	-0.21	1.68
4,000.00	25.600	93.00	3,733.82	31.18	1,184.55	1,184.75	0.73	-0.42	1.37
4,095.00	25.000	93.30	3,819.71	28.96	1,225.09	1,225.27	0.65	-0.63	0.32
4,190.00	22.900	91.70	3,906.52	27.25	1,263.61	1,263.78	2.31	-2.21	-1.68
4,285.00	21.400	94.30	3,994.51	25.40	1,299.37	1,299.53	1.89	-1.58	2.74
4,380.00	20.700	94.70	4,083.17	22.73	1,333.39	1,333.52	0.75	-0.74	0.42
4,475.00	19.900	94.00	4,172.27	20.22	1,366.25	1,366.37	0.88	-0.84	-0.74
4,570.00	18.400	91.80	4,262.01	18.63	1,397.37	1,397.47	1.75	-1.58	-2.32
4,665.00	15.600	90.90	4,352.85	17.95	1,425.13	1,425.23	2.96	-2.95	-0.95
4,759.00	13.400	93.40	4,443.85	17.11	1,448.65	1,448.73	2.43	-2.34	2.66
4,854.00	11.400	91.90	4,536.63	16.14	1,469.02	1,469.10	2.13	-2.11	-1.58
4,949.00	6.800	93.30	4,630.41	15.51	1,484.03	1,484.10	4.85	-4.84	1.47

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5,044.00	4.000	83.90	4,724.98	15.54	1,492.94	1,493.01	3.08	-2.95	-9.89	
5,138.00	1.700	88.90	4,818.86	15.91	1,497.60	1,497.67	2.46	-2.45	5.32	
5,233.00	1.900	312.30	4,913.84	17.00	1,497.84	1,497.92	3.52	0.21	-143.79	
5,328.00	1.700	296.50	5,008.79	18.69	1,495.41	1,495.51	0.56	-0.21	-16.63	
5,422.00	0.900	286.30	5,102.77	19.52	1,493.46	1,493.56	0.88	-0.85	-10.85	
5,517.00	0.700	266.10	5,197.76	19.69	1,492.16	1,492.27	0.36	-0.21	-21.26	
5,612.00	1.300	252.90	5,292.75	19.33	1,490.55	1,490.65	0.67	0.63	-13.89	
5,707.00	1.200	238.80	5,387.72	18.50	1,488.67	1,488.77	0.34	-0.11	-14.84	
5,802.00	1.500	226.30	5,482.70	17.13	1,486.92	1,487.01	0.44	0.32	-13.16	
5,897.00	1.300	265.20	5,577.67	16.18	1,484.95	1,485.03	1.00	-0.21	40.95	
5,992.00	0.800	283.40	5,672.65	16.24	1,483.23	1,483.31	0.63	-0.53	19.16	
6,087.00	1.800	355.50	5,767.63	17.88	1,482.47	1,482.56	1.82	1.05	75.89	
6,181.00	0.900	359.00	5,861.61	20.09	1,482.34	1,482.45	0.96	-0.96	3.72	
6,273.00	0.300	305.60	5,953.60	20.95	1,482.13	1,482.24	0.83	-0.65	-58.04	
6,368.00	0.400	70.90	6,048.60	21.21	1,482.24	1,482.36	0.66	0.11	131.89	
6,463.00	0.500	166.10	6,143.60	20.91	1,482.65	1,482.77	0.70	0.11	100.21	
6,558.00	1.100	215.20	6,238.59	19.77	1,482.23	1,482.33	0.91	0.63	51.68	
6,653.00	0.600	46.40	6,333.59	19.36	1,482.06	1,482.17	1.78	-0.53	-177.68	
6,747.00	0.500	53.40	6,427.58	19.95	1,482.75	1,482.86	0.13	-0.11	7.45	
6,842.00	1.300	86.60	6,522.57	20.26	1,484.16	1,484.27	0.97	0.84	34.95	
6,937.00	1.200	112.90	6,617.55	19.93	1,486.15	1,486.26	0.61	-0.11	27.68	
7,032.00	1.800	100.20	6,712.51	19.28	1,488.53	1,488.64	0.72	0.63	-13.37	
7,127.00	1.300	65.30	6,807.48	19.47	1,490.98	1,491.08	1.10	-0.53	-36.74	
7,222.00	0.800	278.00	6,902.47	20.01	1,491.30	1,491.41	2.13	-0.53	-155.05	
7,317.00	1.500	258.80	6,997.46	19.86	1,489.43	1,489.53	0.83	0.74	-20.21	
7,412.00	2.000	253.40	7,092.41	19.15	1,486.62	1,486.72	0.55	0.53	-5.68	
7,507.00	1.700	231.40	7,187.36	17.80	1,483.93	1,484.02	0.81	-0.32	-23.16	
7,601.00	1.700	221.00	7,281.32	15.87	1,481.93	1,482.00	0.33	0.00	-11.06	
7,641.00	1.500	198.00	7,321.31	14.93	1,481.37	1,481.44	1.67	-0.50	-57.50	
7,691.00	1.500	198.00	7,371.29	13.68	1,480.97	1,481.03	0.00	0.00	0.00	

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
660.00	659.96	-3.74	4.81	End of Gyro Surveys
3,243.00	3,056.26	19.02	847.64	As of March 14
4,759.00	4,443.85	17.11	1,448.65	As of March 15
7,222.00	6,902.47	20.01	1,491.30	As of March 16
7,691.00	7,371.29	13.68	1,480.97	Projected TD

Checked By: _____	Approved By: _____	Date: _____
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