

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 7 Pad

Kaufman 24A-24-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

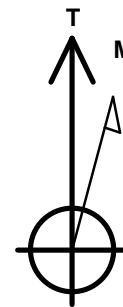
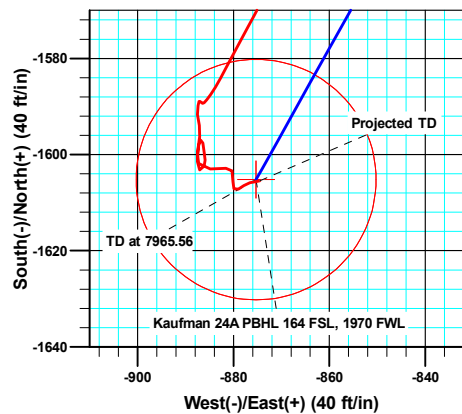
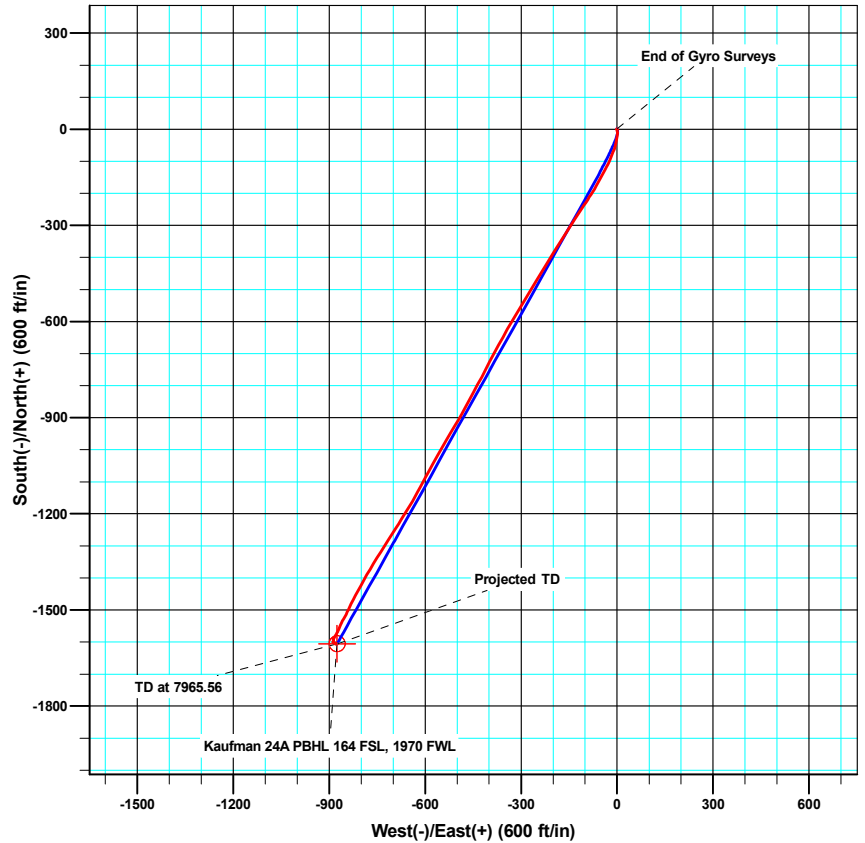
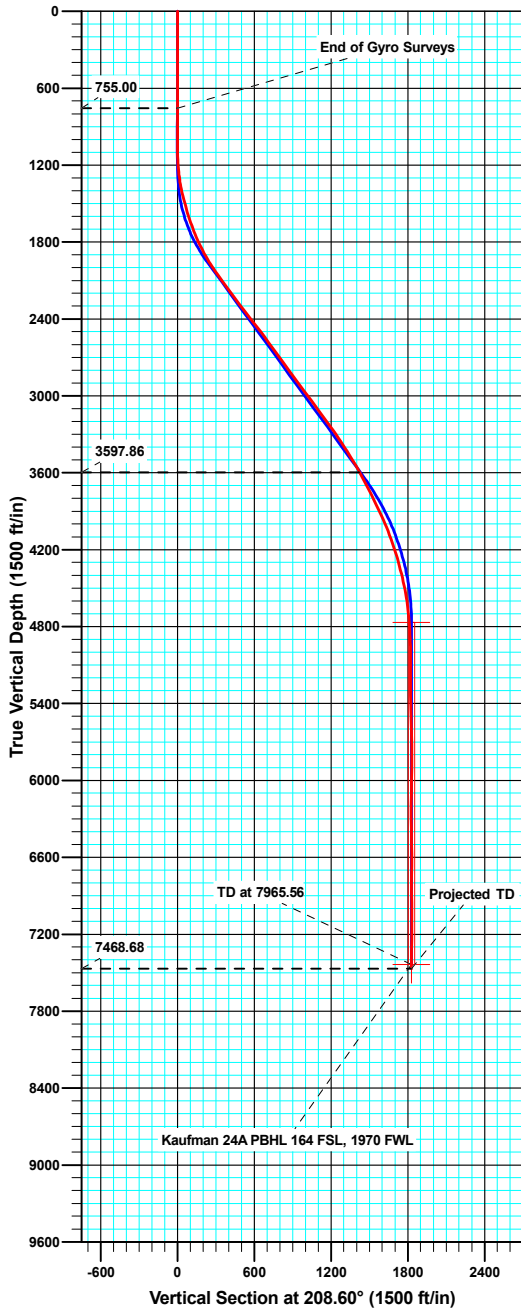
29 August, 2011

Well Details: Kaufman 24A-24-692



Ground Level: 5843.00

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1617723.17 2403405.21 39.510365 -107.614704



Azimuths to True North
 Magnetic North: 10.20°

Magnetic Field
 Strength: 52320.6snT
 Dip Angle: 65.83°
 Date: 05/03/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
755.00	755.00	0.17	47.39	1.42	0.25	-1.36	2.60	End of Gyro Surveys
3597.86	4023.00	28.30	213.20	-1243.79	-691.33	1422.96	1433.89	As of Aug 26
7468.68	7968.00	0.80	75.80	-1605.41	-874.46	1828.12	1878.96	Projected TD



Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Kaufman 24A-24-692
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5866.00ft
Site:	Kaufman 7 Pad	MD Reference:	KB @ 5866.00ft
Well:	Kaufman 24A-24-692	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 7 Pad			
Site Position:		Northing:	1,617,736.60 usft	Latitude:	39.510401
From:	Lat/Long	Easting:	2,403,391.98 usft	Longitude:	-107.614752
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.33 °

Well	Kaufman 24A-24-692					
Well Position	+N/-S	0.00 ft	Northing:	1,617,723.17 usft	Latitude:	39.510365
	+E/-W	0.00 ft	Easting:	2,403,405.22 usft	Longitude:	-107.614704
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,843.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/03/11	10.20	65.83	52,321

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	208.60	

Survey Program	Date	08/29/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	755.00	Gyro Survey (Wellbore #1)	MWD	MWD - Standard	
883.00	7,968.00	MWD Surveys (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	
100.00	0.28	46.08	100.00	0.17	0.18	-0.23	0.28	0.28	0.00	
200.00	0.18	63.71	200.00	0.41	0.49	-0.59	0.12	-0.10	17.63	
300.00	0.05	124.67	300.00	0.45	0.67	-0.72	0.16	-0.13	60.96	
400.00	0.15	229.03	400.00	0.34	0.61	-0.59	0.17	0.10	104.36	
500.00	0.26	308.19	500.00	0.40	0.33	-0.51	0.27	0.11	79.16	
600.00	0.29	340.49	600.00	0.78	0.07	-0.71	0.16	0.03	32.30	
700.00	0.30	31.24	700.00	1.24	0.12	-1.14	0.25	0.01	50.75	
755.00	0.17	47.39	755.00	1.42	0.25	-1.36	0.26	-0.24	29.36	
883.00	0.40	172.30	882.99	1.10	0.45	-1.18	0.40	0.18	97.59	

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Survey Report

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Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 5866.00ft
Site:	Kaufman 7 Pad	MD Reference:	KB @ 5866.00ft
Well:	Kaufman 24A-24-692	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)
975.00	0.40	235.90	974.99	0.60	0.23	-0.64	0.46	0.00	69.13
1,067.00	0.60	185.60	1,066.99	-0.06	-0.08	0.09	0.50	0.22	-54.67
1,160.00	3.30	174.20	1,159.93	-3.20	0.14	2.75	2.92	2.90	-12.26
1,256.00	6.70	173.70	1,255.55	-11.52	1.03	9.62	3.54	3.54	-0.52
1,352.00	10.60	191.30	1,350.45	-25.75	-0.08	22.65	4.86	4.06	18.33
1,447.00	14.80	192.00	1,443.11	-46.20	-4.32	42.63	4.42	4.42	0.74
1,543.00	15.80	202.20	1,535.72	-70.30	-11.81	67.37	2.99	1.04	10.63
1,638.00	18.60	203.20	1,626.46	-96.20	-22.67	95.31	2.96	2.95	1.05
1,734.00	21.60	208.70	1,716.62	-125.78	-37.19	128.24	3.69	3.13	5.73
1,829.00	25.10	208.20	1,803.82	-158.89	-55.11	165.88	3.69	3.68	-0.53
1,924.00	28.50	212.30	1,888.61	-195.82	-76.75	208.67	4.07	3.58	4.32
2,020.00	32.50	213.60	1,971.31	-236.68	-103.27	257.24	4.22	4.17	1.35
2,115.00	35.90	213.10	2,049.87	-281.28	-132.62	310.44	3.59	3.58	-0.53
2,211.00	36.30	212.00	2,127.44	-328.96	-163.05	366.87	0.79	0.42	-1.15
2,306.00	36.60	212.30	2,203.86	-376.75	-193.08	423.20	0.37	0.32	0.32
2,401.00	36.90	211.70	2,279.98	-424.95	-223.20	479.94	0.49	0.32	-0.63
2,497.00	37.40	210.70	2,356.49	-474.54	-253.23	537.86	0.82	0.52	-1.04
2,592.00	37.70	211.30	2,431.81	-524.17	-283.05	595.70	0.50	0.32	0.63
2,688.00	38.10	211.20	2,507.56	-574.58	-313.64	654.61	0.42	0.42	-0.10
2,783.00	36.70	210.10	2,583.03	-624.21	-343.06	712.27	1.63	-1.47	-1.16
2,878.00	35.90	208.70	2,659.60	-673.21	-370.68	768.50	1.21	-0.84	-1.47
2,974.00	36.20	208.00	2,737.21	-722.92	-397.50	825.00	0.53	0.31	-0.73
3,069.00	35.80	207.20	2,814.07	-772.41	-423.37	880.83	0.65	-0.42	-0.84
3,165.00	36.50	208.90	2,891.59	-822.38	-450.01	937.45	1.27	0.73	1.77
3,260.00	36.30	208.00	2,968.05	-871.94	-476.86	993.82	0.60	-0.21	-0.95
3,355.00	36.70	211.30	3,044.43	-921.03	-504.82	1,050.30	2.11	0.42	3.47
3,451.00	35.80	209.90	3,121.85	-969.89	-533.72	1,107.03	1.27	-0.94	-1.46
3,546.00	37.20	210.00	3,198.21	-1,018.85	-561.93	1,163.52	1.48	1.47	0.11
3,641.00	35.60	208.70	3,274.68	-1,067.98	-589.57	1,219.89	1.87	-1.68	-1.37
3,737.00	33.60	207.30	3,353.69	-1,116.10	-615.17	1,274.39	2.24	-2.08	-1.46
3,832.00	32.50	211.00	3,433.33	-1,161.34	-640.38	1,326.18	2.42	-1.16	3.89
3,928.00	30.60	211.40	3,515.14	-1,204.30	-666.39	1,376.35	1.99	-1.98	0.42
4,023.00	28.30	213.20	3,597.86	-1,243.79	-691.33	1,422.96	2.59	-2.42	1.89
4,119.00	28.10	212.30	3,682.46	-1,281.94	-715.87	1,468.20	0.49	-0.21	-0.94
4,214.00	27.00	212.20	3,766.69	-1,319.10	-739.31	1,512.05	1.16	-1.16	-0.11
4,310.00	25.90	211.10	3,852.64	-1,355.50	-761.76	1,554.75	1.25	-1.15	-1.15
4,405.00	25.00	209.30	3,938.42	-1,390.77	-782.30	1,595.55	1.25	-0.95	-1.89
4,500.00	22.50	209.20	4,025.37	-1,424.15	-800.99	1,633.81	2.63	-2.63	-0.11
4,596.00	19.60	208.50	4,114.95	-1,454.34	-817.64	1,668.29	3.03	-3.02	-0.73
4,691.00	18.00	206.60	4,204.88	-1,481.47	-831.82	1,698.89	1.80	-1.68	-2.00
4,787.00	15.50	204.80	4,296.80	-1,506.38	-843.84	1,726.52	2.66	-2.60	-1.88
4,882.00	13.90	210.20	4,388.69	-1,527.77	-854.91	1,750.59	2.22	-1.68	5.68
4,977.00	11.80	203.40	4,481.31	-1,546.55	-864.51	1,771.68	2.72	-2.21	-7.16

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5,073.00	9.10	204.20	4,575.71	-1,562.48	-871.52	1,789.02	2.82	-2.81	0.83	
5,168.00	5.70	210.30	4,669.91	-1,573.41	-876.98	1,801.23	3.67	-3.58	6.42	
5,264.00	5.40	206.00	4,765.46	-1,581.59	-881.37	1,810.51	0.53	-0.31	-4.48	
5,359.00	2.90	215.80	4,860.20	-1,587.56	-884.73	1,817.36	2.73	-2.63	10.32	
5,454.00	0.40	298.00	4,955.16	-1,589.35	-886.43	1,819.75	3.02	-2.63	86.53	
5,550.00	0.40	318.70	5,051.16	-1,588.94	-886.95	1,819.64	0.15	0.00	21.56	
5,645.00	0.30	173.20	5,146.16	-1,588.94	-887.14	1,819.73	0.70	-0.11	-153.16	
5,740.00	0.80	201.90	5,241.16	-1,589.80	-887.36	1,820.59	0.59	0.53	30.21	
5,836.00	1.50	175.10	5,337.14	-1,591.68	-887.50	1,822.30	0.90	0.73	-27.92	
5,931.00	1.30	164.10	5,432.11	-1,593.95	-887.10	1,824.11	0.35	-0.21	-11.58	
6,027.00	1.50	190.50	5,528.08	-1,596.23	-887.03	1,826.08	0.70	0.21	27.50	
6,122.00	1.40	186.00	5,623.05	-1,598.61	-887.38	1,828.33	0.16	-0.11	-4.74	
6,217.00	2.00	180.40	5,718.01	-1,601.42	-887.51	1,830.87	0.65	0.63	-5.89	
6,313.00	0.60	95.60	5,813.99	-1,603.15	-887.02	1,832.15	2.12	-1.46	-88.33	
6,408.00	1.10	28.10	5,908.98	-1,602.39	-886.09	1,831.04	1.09	0.53	-71.05	
6,504.00	0.60	334.10	6,004.97	-1,601.13	-885.88	1,829.83	0.93	-0.52	-56.25	
6,599.00	1.40	1.10	6,099.95	-1,599.52	-886.08	1,828.51	0.95	0.84	28.42	
6,694.00	1.00	339.10	6,194.93	-1,597.58	-886.35	1,826.94	0.63	-0.42	-23.16	
6,790.00	0.30	219.60	6,290.93	-1,596.99	-886.81	1,826.64	1.23	-0.73	-124.48	
6,882.00	1.10	197.00	6,382.92	-1,598.02	-887.22	1,827.74	0.90	0.87	-24.57	
6,978.00	1.30	178.10	6,478.90	-1,599.99	-887.45	1,829.59	0.46	0.21	-19.69	
7,072.00	1.00	164.70	6,572.88	-1,601.85	-887.20	1,831.09	0.43	-0.32	-14.26	
7,168.00	2.60	98.90	6,668.84	-1,603.00	-884.83	1,830.96	2.47	1.67	-68.54	
7,263.00	1.50	66.10	6,763.78	-1,602.83	-881.56	1,829.25	1.65	-1.16	-34.53	
7,358.00	1.30	171.00	6,858.76	-1,603.39	-880.26	1,829.12	2.34	-0.21	110.42	
7,454.00	1.40	180.90	6,954.73	-1,605.64	-880.11	1,831.02	0.26	0.10	10.31	
7,548.00	0.50	142.10	7,048.72	-1,607.11	-879.87	1,832.20	1.13	-0.96	-41.28	
7,643.00	0.90	66.30	7,143.72	-1,607.13	-878.93	1,831.77	0.96	0.42	-79.79	
7,738.00	0.70	45.30	7,238.71	-1,606.43	-877.84	1,830.63	0.37	-0.21	-22.11	
7,833.00	1.10	80.40	7,333.70	-1,605.87	-876.53	1,829.51	0.70	0.42	36.95	
7,921.00	0.80	75.80	7,421.68	-1,605.57	-875.10	1,828.57	0.35	-0.34	-5.23	
7,968.00	0.80	75.80	7,468.68	-1,605.41	-874.46	1,828.12	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
755.00	755.00	1.42	0.25	End of Gyro Surveys	
4,023.00	3,597.86	-1,243.79	-691.33	As of Aug 26	
7,968.00	7,468.68	-1,605.41	-874.46	Projected TD	

Checked By: _____ Approved By: _____ Date: _____