



## **Bill Barrett Corp.**

Garfield County, Colorado  
Kaufman 6 Pad  
Kaufman 21B-24-692

Wellbore #1

Plan: plan1 02jun10 smw

## **Standard Planning Report**

03 June, 2010

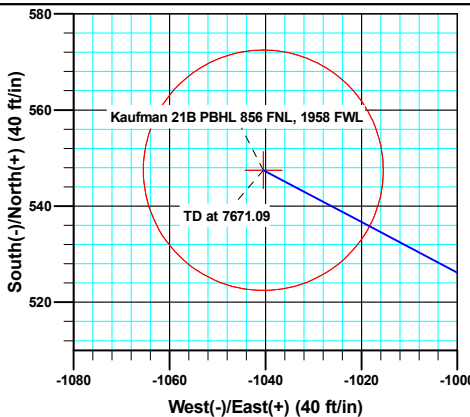
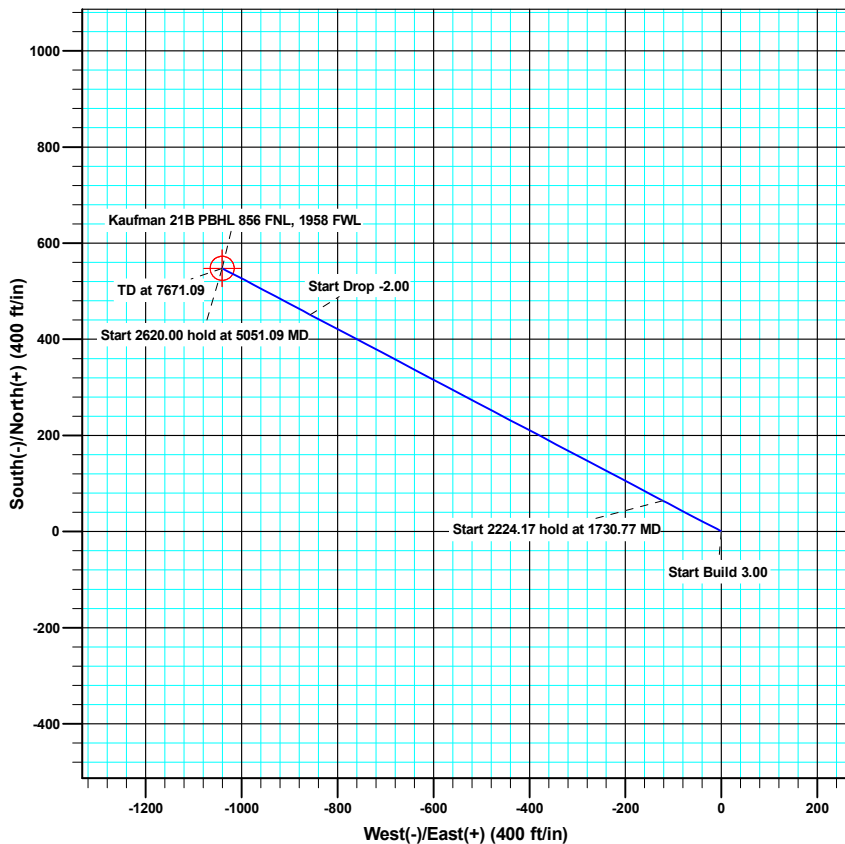
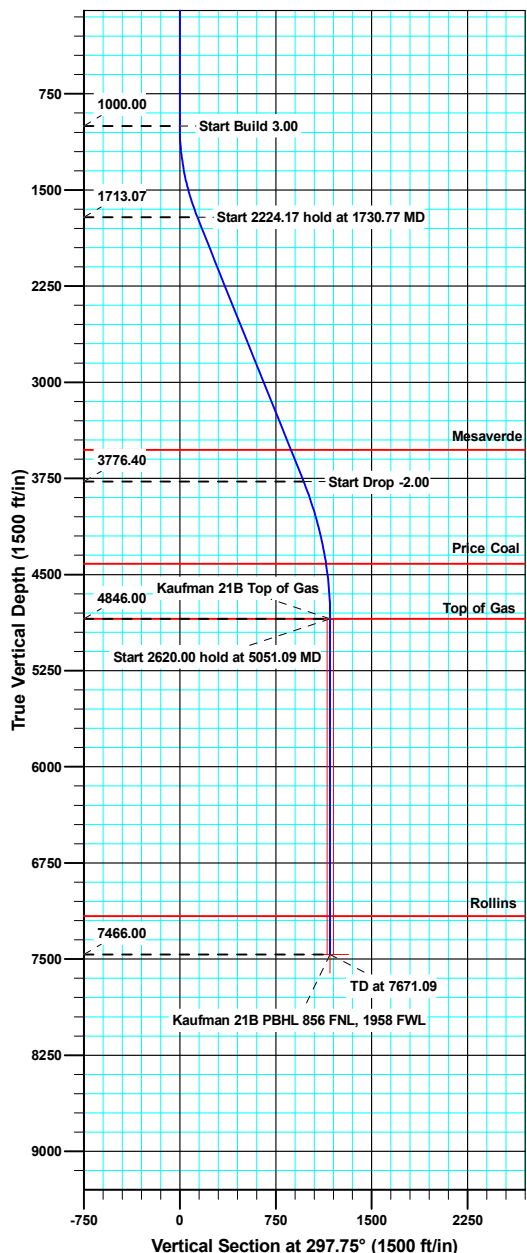




WELL DETAILS: Kaufman 21B-24-692

Ground Level: 5763.00

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
 +N/-S +E/-W Northing Easting Latitude Longitude  
 0.00 0.00 1619794.66 2403568.30 39.516061 -107.614297



Azimuths to True North  
 Magnetic North: 10.29°

Magnetic Field  
 Strength: 52446.1snT  
 Dip Angle: 65.87°  
 Date: 06/02/2010  
 Model: IGRF200510

#### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
1000.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
1713.07	1730.77	21.92	297.75	64.31	-122.22	138.11	138.11	Start 2224.17 hold at 1730.77 MD
3776.40	3954.94	21.92	297.75	451.02	-857.11	968.53	968.53	Start Drop -2.00
4846.00	5051.09	0.00	0.00	547.49	-1040.44	1175.69	1175.69	Start 2620.00 hold at 5051.09 MD
7466.00	7671.09	0.00	0.00	547.49	-1040.44	1175.69	1175.69	TD at 7671.09



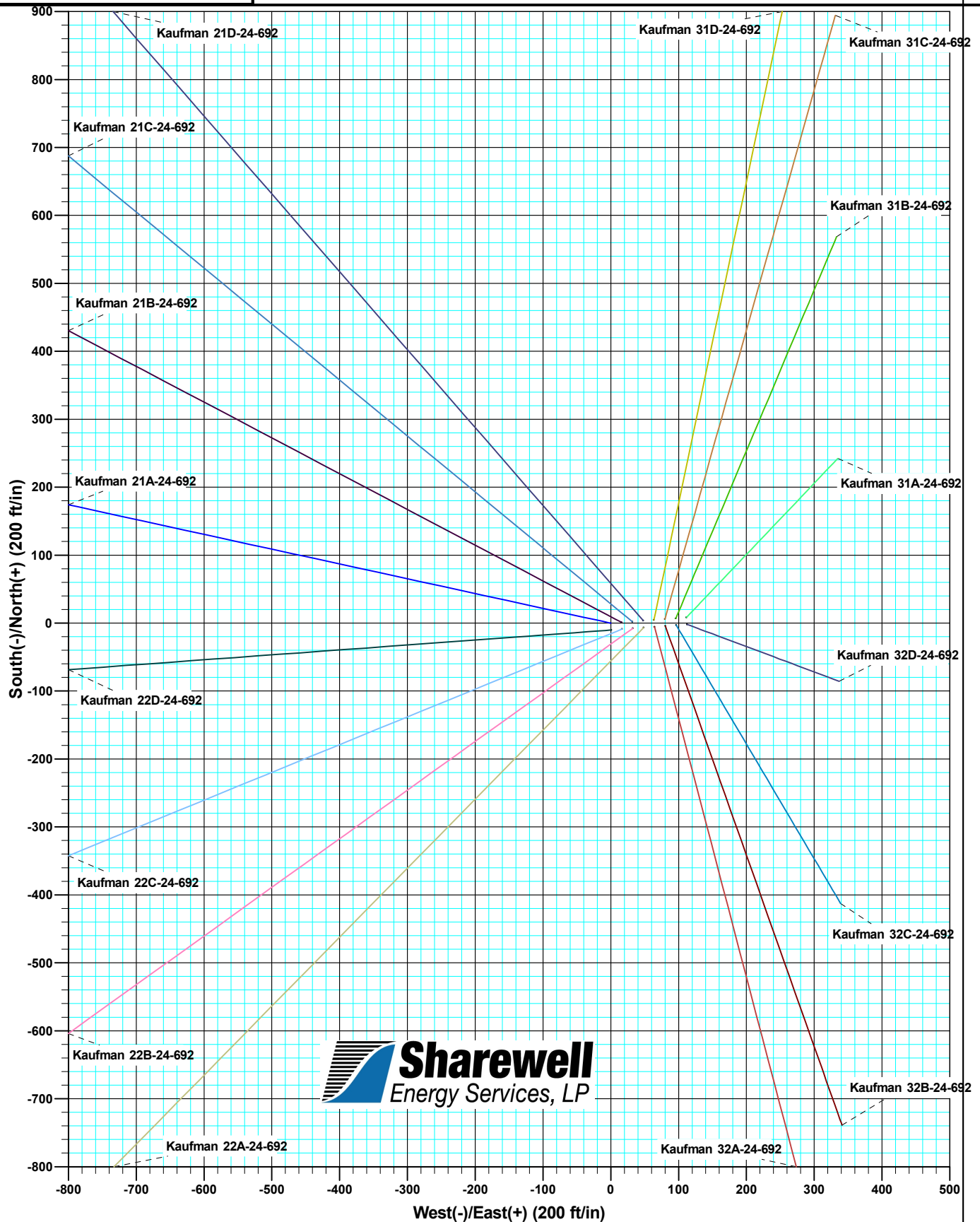


Bill Barrett Corporation

WELL DETAILS: Kaufman 6 Pad

Ground Level: 5763.00

North American Datum 1983	US State Plane 1983	Colorado Central Zone			
+N/-S	+E/-W	North	Easting	Latitude	Longitude
0.00	0.00	1619793.94	2403552.19	39° 30' 57.81 N	107° 36' 51.67 W



<b>Database:</b>	SWFS01	<b>Local Co-ordinate Reference:</b>	Well Kaufman 21B-24-692
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	KB @ 5786.00ft
<b>Project:</b>	Garfield County, Colorado	<b>MD Reference:</b>	KB @ 5786.00ft
<b>Site:</b>	Kaufman 6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 21B-24-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1 02jun10 smw		

<b>Project</b>	Garfield County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		Kaufman 6 Pad			
Site Position:		Northing:	1,619,793.95 usft	Latitude:	39.516058
From:	Lat/Long	Easting:	2,403,552.20 usft	Longitude:	-107.614354
Position Uncertainty:	0.00 ft	Slot Radius:	0.00 ft	Grid Convergence:	-1.33

Well	Kaufman 21B-24-692					
Well Position	+N/-S	1.08 ft	Northing:	1,619,794.66 usft	Latitude:	39.516061
	+E/-W	16.08 ft	Easting:	2,403,568.30 usft	Longitude:	-107.614297
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,763.00 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	06/02/10	10.29	65.87	52,446

<b>Design</b>	plan1 02jun10 smw			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	297.75

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,730.77	21.92	297.75	1,713.07	64.31	-122.22	3.00	3.00	0.00	297.75	
3,954.94	21.92	297.75	3,776.40	451.02	-857.11	0.00	0.00	0.00	0.00	
5,051.09	0.00	0.00	4,846.00	547.49	-1,040.44	2.00	-2.00	0.00	180.00	Kaufman 21B Top of I
7,671.09	0.00	0.00	7,466.00	547.49	-1,040.44	0.00	0.00	0.00	0.00	Kaufman 21B PBHL E

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<b>Project:</b>	Garfield County, Colorado	<b>MD Reference:</b>	KB @ 5786.00ft
<b>Site:</b>	Kaufman 6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 21B-24-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1 02jun10 smw		

Planned 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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 3.00</b>									
1,100.00	3.00	297.75	1,099.95	1.22	-2.32	2.62	3.00	3.00	0.00
1,200.00	6.00	297.75	1,199.63	4.87	-9.26	10.46	3.00	3.00	0.00
1,300.00	9.00	297.75	1,298.77	10.95	-20.81	23.51	3.00	3.00	0.00
1,400.00	12.00	297.75	1,397.08	19.43	-36.93	41.74	3.00	3.00	0.00
1,500.00	15.00	297.75	1,494.31	30.30	-57.59	65.08	3.00	3.00	0.00
1,600.00	18.00	297.75	1,590.18	43.53	-82.72	93.48	3.00	3.00	0.00
1,700.00	21.00	297.75	1,684.43	59.07	-112.26	126.85	3.00	3.00	0.00
1,730.77	21.92	297.75	1,713.07	64.31	-122.22	138.11	3.00	3.00	0.00
<b>Start 2224.17 hold at 1730.77 MD</b>									
1,800.00	21.92	297.75	1,777.29	76.35	-145.10	163.96	0.00	0.00	0.00
1,900.00	21.92	297.75	1,870.06	93.74	-178.14	201.29	0.00	0.00	0.00
2,000.00	21.92	297.75	1,962.83	111.12	-211.18	238.63	0.00	0.00	0.00
2,100.00	21.92	297.75	2,055.60	128.51	-244.22	275.97	0.00	0.00	0.00
2,200.00	21.92	297.75	2,148.37	145.90	-277.26	313.30	0.00	0.00	0.00
2,300.00	21.92	297.75	2,241.14	163.28	-310.30	350.64	0.00	0.00	0.00
2,400.00	21.92	297.75	2,333.90	180.67	-343.34	387.97	0.00	0.00	0.00
2,500.00	21.92	297.75	2,426.67	198.06	-376.38	425.31	0.00	0.00	0.00
2,600.00	21.92	297.75	2,519.44	215.44	-409.42	462.65	0.00	0.00	0.00
2,700.00	21.92	297.75	2,612.21	232.83	-442.46	499.98	0.00	0.00	0.00
2,800.00	21.92	297.75	2,704.98	250.21	-475.50	537.32	0.00	0.00	0.00
2,900.00	21.92	297.75	2,797.75	267.60	-508.55	574.66	0.00	0.00	0.00
3,000.00	21.92	297.75	2,890.52	284.99	-541.59	611.99	0.00	0.00	0.00
3,100.00	21.92	297.75	2,983.28	302.37	-574.63	649.33	0.00	0.00	0.00
3,200.00	21.92	297.75	3,076.05	319.76	-607.67	686.66	0.00	0.00	0.00
3,300.00	21.92	297.75	3,168.82	337.15	-640.71	724.00	0.00	0.00	0.00
3,400.00	21.92	297.75	3,261.59	354.53	-673.75	761.34	0.00	0.00	0.00
3,500.00	21.92	297.75	3,354.36	371.92	-706.79	798.67	0.00	0.00	0.00
3,600.00	21.92	297.75	3,447.13	389.31	-739.83	836.01	0.00	0.00	0.00
3,685.02	21.92	297.75	3,526.00	404.09	-767.92	867.75	0.00	0.00	0.00
<b>Mesaverde</b>									
3,700.00	21.92	297.75	3,539.90	406.69	-772.87	873.34	0.00	0.00	0.00
3,800.00	21.92	297.75	3,632.66	424.08	-805.91	910.68	0.00	0.00	0.00
3,900.00	21.92	297.75	3,725.43	441.46	-838.95	948.02	0.00	0.00	0.00
3,954.94	21.92	297.75	3,776.40	451.02	-857.11	968.53	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
4,000.00	21.02	297.75	3,818.33	458.70	-871.70	985.02	2.00	-2.00	0.00
4,100.00	19.02	297.75	3,912.28	474.64	-902.00	1,019.26	2.00	-2.00	0.00
4,200.00	17.02	297.75	4,007.37	489.05	-929.38	1,050.20	2.00	-2.00	0.00
4,300.00	15.02	297.75	4,103.48	501.90	-953.80	1,077.79	2.00	-2.00	0.00
4,400.00	13.02	297.75	4,200.50	513.18	-975.24	1,102.02	2.00	-2.00	0.00
4,500.00	11.02	297.75	4,298.30	522.88	-993.67	1,122.85	2.00	-2.00	0.00
4,600.00	9.02	297.75	4,396.77	530.98	-1,009.07	1,140.25	2.00	-2.00	0.00
4,619.46	8.63	297.75	4,416.00	532.37	-1,011.72	1,143.24	2.00	-2.00	0.00
<b>Price Coal</b>									
4,700.00	7.02	297.75	4,495.79	537.48	-1,021.42	1,154.21	2.00	-2.00	0.00
4,800.00	5.02	297.75	4,595.23	542.37	-1,030.71	1,164.70	2.00	-2.00	0.00
4,900.00	3.02	297.75	4,694.98	545.63	-1,036.91	1,171.71	2.00	-2.00	0.00
5,000.00	1.02	297.75	4,794.91	547.27	-1,040.04	1,175.24	2.00	-2.00	0.00
5,051.09	0.00	0.00	4,846.00	547.49	-1,040.44	1,175.69	2.00	-2.00	0.00
<b>Start 2620.00 hold at 5051.09 MD - Top of Gas - Kaufman 21B Top of Gas</b>									
5,100.00	0.00	0.00	4,894.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00

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<b>Project:</b>	Garfield County, Colorado	<b>MD Reference:</b>	KB @ 5786.00ft
<b>Site:</b>	Kaufman 6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 21B-24-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1 02jun10 smw		

Planned 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)
5,200.00	0.00	0.00	4,994.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,300.00	0.00	0.00	5,094.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,400.00	0.00	0.00	5,194.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,500.00	0.00	0.00	5,294.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,600.00	0.00	0.00	5,394.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,700.00	0.00	0.00	5,494.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,800.00	0.00	0.00	5,594.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
5,900.00	0.00	0.00	5,694.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,000.00	0.00	0.00	5,794.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,100.00	0.00	0.00	5,894.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,200.00	0.00	0.00	5,994.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,300.00	0.00	0.00	6,094.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,400.00	0.00	0.00	6,194.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,500.00	0.00	0.00	6,294.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,600.00	0.00	0.00	6,394.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,700.00	0.00	0.00	6,494.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,800.00	0.00	0.00	6,594.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
6,900.00	0.00	0.00	6,694.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,000.00	0.00	0.00	6,794.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,100.00	0.00	0.00	6,894.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,200.00	0.00	0.00	6,994.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,300.00	0.00	0.00	7,094.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,371.09	0.00	0.00	7,166.00	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
Rollins									
7,400.00	0.00	0.00	7,194.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,500.00	0.00	0.00	7,294.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,600.00	0.00	0.00	7,394.91	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
7,671.09	0.00	0.00	7,466.00	547.49	-1,040.44	1,175.69	0.00	0.00	0.00
TD at 7671.09 - Kaufman 21B PBHL 856 FNL, 1958 FWL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Kaufman 21B Top of Ga	0.00	0.00	4,846.00	547.49	-1,040.44	1,620,366.20	2,402,540.89	39.517564	-107.617985
- plan hits target center									
- Circle (radius 25.00)									
Kaufman 21B PBHL 856	0.00	0.00	7,466.00	547.49	-1,040.44	1,620,366.20	2,402,540.89	39.517564	-107.617985
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,685.02	3,526.00	Mesaverde		0.00		
4,619.46	4,416.00	Price Coal		0.00		
5,051.09	4,846.00	Top of Gas		0.00		
7,371.09	7,166.00	Rollins		0.00		

<b>Database:</b>	SWFS01	<b>Local Co-ordinate Reference:</b>	Well Kaufman 21B-24-692
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	KB @ 5786.00ft
<b>Project:</b>	Garfield County, Colorado	<b>MD Reference:</b>	KB @ 5786.00ft
<b>Site:</b>	Kaufman 6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Kaufman 21B-24-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1 02jun10 smw		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,000.00	1,000.00	0.00	0.00	Start Build 3.00
1,730.77	1,713.07	64.31	-122.22	Start 2224.17 hold at 1730.77 MD
3,954.94	3,776.40	451.02	-857.11	Start Drop -2.00
5,051.09	4,846.00	547.49	-1,040.44	Start 2620.00 hold at 5051.09 MD
7,671.09	7,466.00	547.49	-1,040.44	TD at 7671.09