



## **Bill Barrett Corp.**

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

Wellbore #1

Plan: plan1 02jun10 smw

## **Standard Planning Report**

03 June, 2010

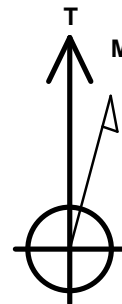
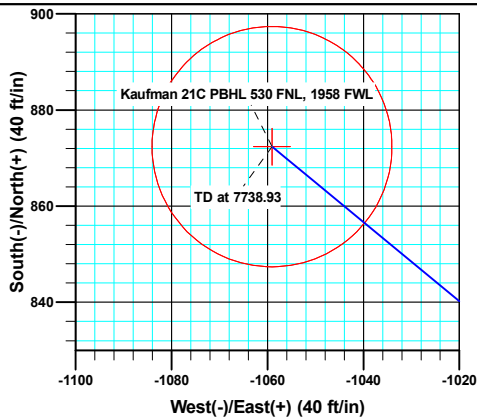
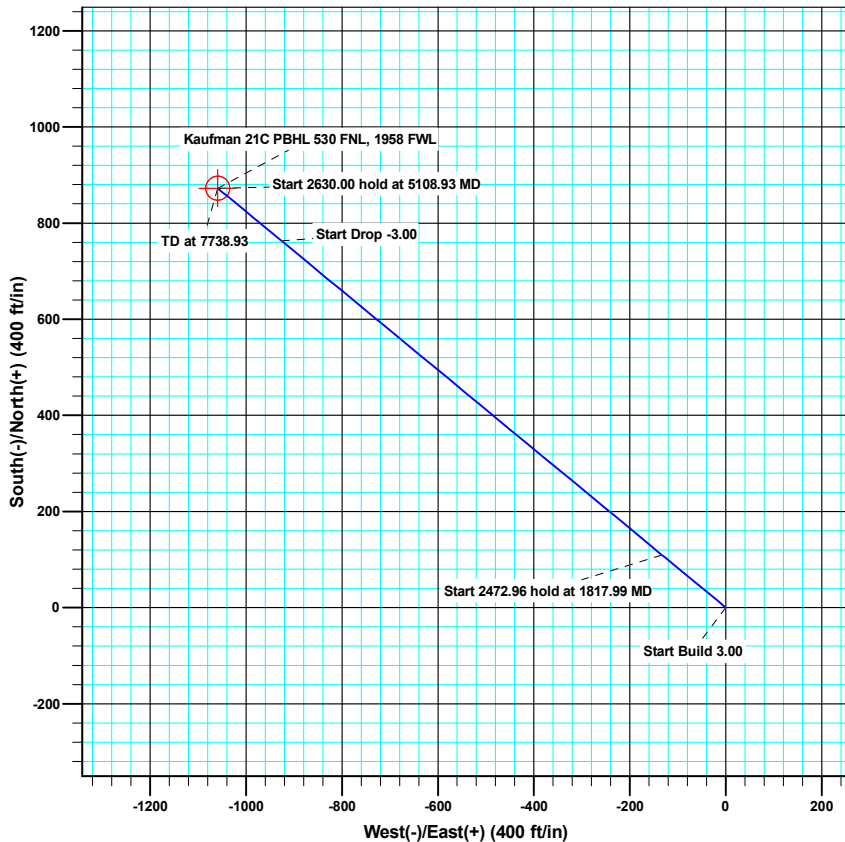
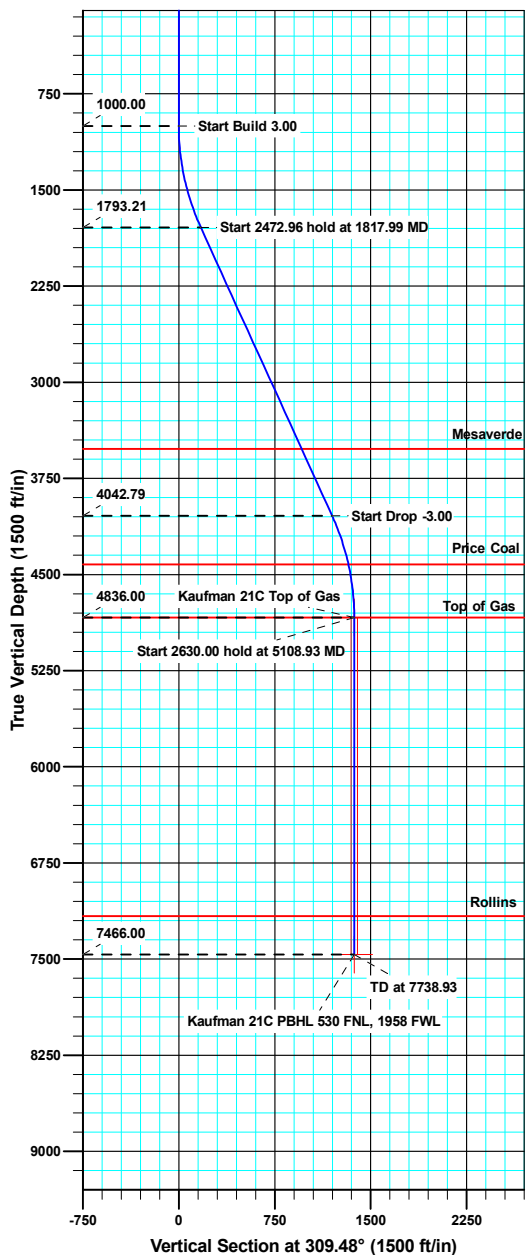




WELL DETAILS: Kaufman 21C-24-692

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 1619795.38 2403584.12 39° 30' 57.83 N 107° 36' 51.27 W



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
1793.21	1817.99	24.54	309.48	109.68	-133.15	172.51	172.51	Start 2472.96 hold at 1817.99 MD
4042.79	4290.94	24.54	309.48	762.71	-925.89	1199.58	1199.58	Start Drop -3.00
4836.00	5108.93	0.00	0.00	872.39	-1059.04	1372.09	1372.09	Start 2630.00 hold at 5108.93 MD
7466.00	7738.93	0.00	0.00	872.39	-1059.04	1372.09	1372.09	TD at 7738.93



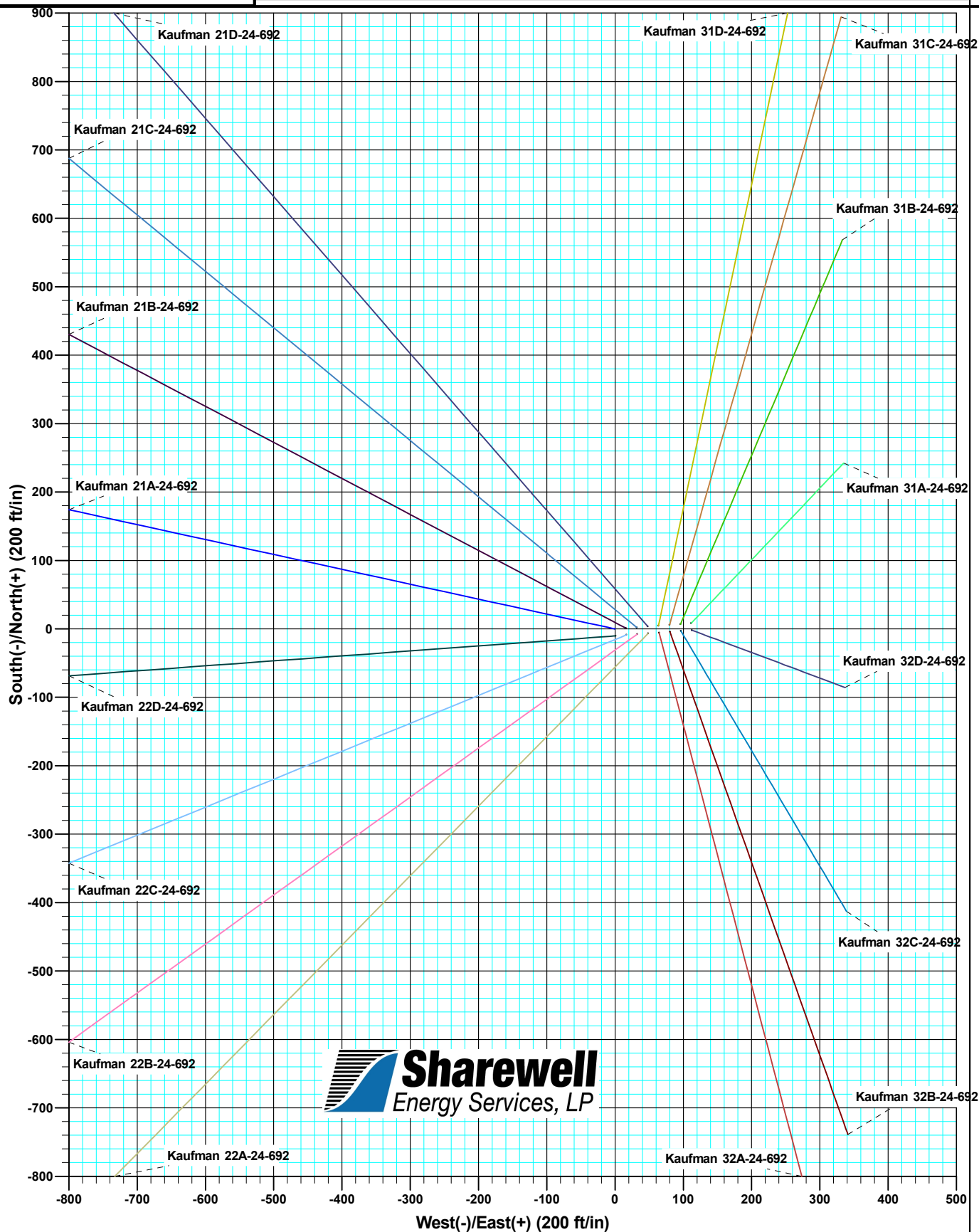


Bill Barrett Corporation

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 21C-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 21C-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° 30' 57.81 N
From:	Lat/Long	Easting:	2,403,552.20 usft	Longitude:	107° 36' 51.67 W
Position Uncertainty:	0.00 ft	Slot Radius:	0.00 ft	Grid Convergence:	-1.33

Well	Kaufman 21C-24-692					
Well Position	+N/-S	2.18 ft	Northing:	1,619,795.38 usft	Latitude:	39° 30' 57.83 N
	+E/-W	31.88 ft	Easting:	2,403,584.12 usft	Longitude:	107° 36' 51.27 W
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	309.48

<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	
1,817.99	24.54	309.48	1,793.21	109.68	-133.15	3.00	3.00	0.00	309.48	
4,290.94	24.54	309.48	4,042.79	762.71	-925.89	0.00	0.00	0.00	0.00	
5,108.93	0.00	0.00	4,836.00	872.39	-1,059.04	3.00	-3.00	0.00	180.00	Kaufman 21C Top of H
7,738.93	0.00	0.00	7,466.00	872.39	-1,059.04	0.00	0.00	0.00	0.00	Kaufman 21C PBHL 5

<b>Database:</b>	SWFS01	<b>Local Co-ordinate Reference:</b>	Well Kaufman 21C-24-692
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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 21C-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	309.48	1,099.95	1.66	-2.02	2.62	3.00	3.00	0.00	
1,200.00	6.00	309.48	1,199.63	6.65	-8.08	10.46	3.00	3.00	0.00	
1,300.00	9.00	309.48	1,298.77	14.95	-18.15	23.51	3.00	3.00	0.00	
1,400.00	12.00	309.48	1,397.08	26.54	-32.21	41.74	3.00	3.00	0.00	
1,500.00	15.00	309.48	1,494.31	41.38	-50.23	65.08	3.00	3.00	0.00	
1,600.00	18.00	309.48	1,590.18	59.43	-72.15	93.48	3.00	3.00	0.00	
1,700.00	21.00	309.48	1,684.43	80.65	-97.91	126.85	3.00	3.00	0.00	
1,800.00	24.00	309.48	1,776.81	104.98	-127.44	165.12	3.00	3.00	0.00	
1,817.99	24.54	309.48	1,793.21	109.68	-133.15	172.51	3.00	3.00	0.00	
<b>Start 2472.96 hold at 1817.99 MD</b>										
1,900.00	24.54	309.48	1,867.81	131.34	-159.44	206.57	0.00	0.00	0.00	
2,000.00	24.54	309.48	1,958.78	157.75	-191.50	248.10	0.00	0.00	0.00	
2,100.00	24.54	309.48	2,049.75	184.15	-223.55	289.64	0.00	0.00	0.00	
2,200.00	24.54	309.48	2,140.71	210.56	-255.61	331.17	0.00	0.00	0.00	
2,300.00	24.54	309.48	2,231.68	236.97	-287.67	372.70	0.00	0.00	0.00	
2,400.00	24.54	309.48	2,322.65	263.37	-319.72	414.23	0.00	0.00	0.00	
2,500.00	24.54	309.48	2,413.62	289.78	-351.78	455.76	0.00	0.00	0.00	
2,600.00	24.54	309.48	2,504.58	316.19	-383.84	497.30	0.00	0.00	0.00	
2,700.00	24.54	309.48	2,595.55	342.59	-415.89	538.83	0.00	0.00	0.00	
2,800.00	24.54	309.48	2,686.52	369.00	-447.95	580.36	0.00	0.00	0.00	
2,900.00	24.54	309.48	2,777.49	395.41	-480.01	621.89	0.00	0.00	0.00	
3,000.00	24.54	309.48	2,868.45	421.81	-512.06	663.43	0.00	0.00	0.00	
3,100.00	24.54	309.48	2,959.42	448.22	-544.12	704.96	0.00	0.00	0.00	
3,200.00	24.54	309.48	3,050.39	474.63	-576.18	746.49	0.00	0.00	0.00	
3,300.00	24.54	309.48	3,141.36	501.03	-608.23	788.02	0.00	0.00	0.00	
3,400.00	24.54	309.48	3,232.32	527.44	-640.29	829.56	0.00	0.00	0.00	
3,500.00	24.54	309.48	3,323.29	553.85	-672.34	871.09	0.00	0.00	0.00	
3,600.00	24.54	309.48	3,414.26	580.25	-704.40	912.62	0.00	0.00	0.00	
3,700.00	24.54	309.48	3,505.23	606.66	-736.46	954.15	0.00	0.00	0.00	
3,717.34	24.54	309.48	3,521.00	611.24	-742.02	961.35	0.00	0.00	0.00	
<b>Mesaverde</b>										
3,800.00	24.54	309.48	3,596.19	633.07	-768.51	995.68	0.00	0.00	0.00	
3,900.00	24.54	309.48	3,687.16	659.47	-800.57	1,037.22	0.00	0.00	0.00	
4,000.00	24.54	309.48	3,778.13	685.88	-832.63	1,078.75	0.00	0.00	0.00	
4,100.00	24.54	309.48	3,869.10	712.29	-864.68	1,120.28	0.00	0.00	0.00	
4,200.00	24.54	309.48	3,960.06	738.69	-896.74	1,161.81	0.00	0.00	0.00	
4,290.94	24.54	309.48	4,042.79	762.71	-925.89	1,199.58	0.00	0.00	0.00	
<b>Start Drop -3.00</b>										
4,300.00	24.27	309.48	4,051.04	765.09	-928.78	1,203.33	3.00	-3.00	0.00	
4,400.00	21.27	309.48	4,143.24	789.69	-958.65	1,242.02	3.00	-3.00	0.00	
4,500.00	18.27	309.48	4,237.33	811.19	-984.75	1,275.84	3.00	-3.00	0.00	
4,600.00	15.27	309.48	4,333.07	829.53	-1,007.02	1,304.69	3.00	-3.00	0.00	
4,690.60	12.55	309.48	4,421.00	843.38	-1,023.82	1,326.46	3.00	-3.00	0.00	
<b>Price Coal</b>										
4,700.00	12.27	309.48	4,430.19	844.66	-1,025.38	1,328.48	3.00	-3.00	0.00	
4,800.00	9.27	309.48	4,528.41	856.54	-1,039.80	1,347.16	3.00	-3.00	0.00	
4,900.00	6.27	309.48	4,627.48	865.13	-1,050.23	1,360.68	3.00	-3.00	0.00	
5,000.00	3.27	309.48	4,727.13	870.42	-1,056.65	1,368.99	3.00	-3.00	0.00	
5,100.00	0.27	309.48	4,827.07	872.38	-1,059.03	1,372.07	3.00	-3.00	0.00	
5,108.93	0.00	0.00	4,836.00	872.39	-1,059.04	1,372.09	3.00	-3.00	0.00	
<b>Start 2630.00 hold at 5108.93 MD - Top of Gas - Kaufman 21C Top of Gas</b>										

<b>Database:</b>	SWFS01	<b>Local Co-ordinate Reference:</b>	Well Kaufman 21C-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 21C-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	4,927.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,300.00	0.00	0.00	5,027.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,400.00	0.00	0.00	5,127.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,500.00	0.00	0.00	5,227.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,600.00	0.00	0.00	5,327.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,700.00	0.00	0.00	5,427.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,800.00	0.00	0.00	5,527.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
5,900.00	0.00	0.00	5,627.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,000.00	0.00	0.00	5,727.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,100.00	0.00	0.00	5,827.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,200.00	0.00	0.00	5,927.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,300.00	0.00	0.00	6,027.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,400.00	0.00	0.00	6,127.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,500.00	0.00	0.00	6,227.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,600.00	0.00	0.00	6,327.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,700.00	0.00	0.00	6,427.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,800.00	0.00	0.00	6,527.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
6,900.00	0.00	0.00	6,627.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,000.00	0.00	0.00	6,727.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,100.00	0.00	0.00	6,827.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,200.00	0.00	0.00	6,927.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,300.00	0.00	0.00	7,027.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,400.00	0.00	0.00	7,127.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,438.93	0.00	0.00	7,166.00	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
<b>Rollins</b>									
7,500.00	0.00	0.00	7,227.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,600.00	0.00	0.00	7,327.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,700.00	0.00	0.00	7,427.07	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
7,738.93	0.00	0.00	7,466.00	872.39	-1,059.04	1,372.09	0.00	0.00	0.00
<b>TD at 7738.93 - Kaufman 21C PBHL 530 FNL, 1958 FWL</b>									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Kaufman 21C Top of Ga - plan hits target center - Circle (radius 25.00)	0.00	0.00	4,836.00	872.39	-1,059.04	1,620,692.18	2,402,545.66	39° 31' 6.45 N	107° 37' 4.78 W
Kaufman 21C PBHL 53C - plan hits target center - Point	0.00	0.00	7,466.00	872.39	-1,059.04	1,620,692.18	2,402,545.66	39° 31' 6.45 N	107° 37' 4.78 W

<b>Database:</b>	SWFS01	<b>Local Co-ordinate Reference:</b>	Well Kaufman 21C-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 21C-24-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	plan1 02jun10 smw		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,717.34	3,521.00	Mesaverde		0.00	
4,690.60	4,421.00	Price Coal		0.00	
5,108.93	4,836.00	Top of Gas		0.00	
7,438.93	7,166.00	Rollins		0.00	

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
1,817.99	1,793.21	109.68	-133.15	Start 2472.96 hold at 1817.99 MD
4,290.94	4,042.79	762.71	-925.89	Start Drop -3.00
5,108.93	4,836.00	872.39	-1,059.04	Start 2630.00 hold at 5108.93 MD
7,738.93	7,466.00	872.39	-1,059.04	TD at 7738.93