BILL BARRETT CORP

GARFIELD COUNTY, COLORADO NAD 1983
Kaufman Pad #2 NENW-25-692
Kaufman 32D-25-692

Wellbore #1

Plan: Design #1

Standard Planning Report

23 September, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	**Local Co-ordinate Reference:**	Well Kaufman 32D-25-692
Company:	BILL BARRETT CORP	**TVD Reference:**	WELL @ 5863.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	**MD Reference:**	WELL @ 5863.00ft (Original Well Elev)
Site:	Kaufman Pad #2 NENW-25-692	**North Reference:**	Grid
Well:	Kaufman 32D-25-692	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project GARFIELD COUNTY, COLORADO NAD 1983

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 NENW-25-692

Site Position:		**Northing:**	1,614,867.241 ft	**Latitude:**	39° 30' 8.842 N
From:	Lat/Long	**Easting:**	2,402,305.683 ft	**Longitude:**	107° 37' 6.1104 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	"	**Grid Convergence:**	-1.34 °

Well Kaufman 32D-25-692

Well Position	**+N/-S**	-39.42 ft	**Northing:**	1,614,827.817 ft	**Latitude:**	39° 30' 8.449 N
	+E/-W	-12.77 ft	**Easting:**	2,402,292.909 ft	**Longitude:**	107° 37' 6.2616 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,840.00 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.35	65.87	52,479

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	102.74

Plan Sections

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	
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,798.74	25.72	102.74	1,764.54	-50.07	221.45	2.50	2.50	0.00	102.74	
3,938.61	25.72	102.74	3,692.43	-254.88	1,127.17	0.00	0.00	0.00	0.00	
5,653.18	0.00	0.00	5,350.00	-338.34	1,496.25	1.50	-1.50	0.00	180.00	
7,653.18	0.00	0.00	7,350.00	-338.34	1,496.25	0.00	0.00	0.00	0.00	Kaufman 32D-25-6

Bill Barrett Corp

Planning Report

Database:	Compass	**Local Co-ordinate Reference:**	Well Kaufman 32D-25-692
Company:	BILL BARRETT CORP	**TVD Reference:**	WELL @ 5863.00ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO NAD 1983	**MD Reference:**	WELL @ 5863.00ft (Original Well Elev)
Site:	Kaufman Pad #2 NENW-25-692	**North Reference:**	Grid
Well:	Kaufman 32D-25-692	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.75	102.74	800.00	-0.04	0.19	0.20	2.50	2.50	0.00
900.00	3.25	102.74	899.93	-0.81	3.60	3.69	2.50	2.50	0.00
1,000.00	5.75	102.74	999.61	-2.54	11.25	11.53	2.50	2.50	0.00
1,100.00	8.25	102.74	1,098.86	-5.23	23.13	23.72	2.50	2.50	0.00
1,200.00	10.75	102.74	1,197.48	-8.87	39.23	40.22	2.50	2.50	0.00
1,300.00	13.25	102.74	1,295.29	-13.46	59.51	61.01	2.50	2.50	0.00
1,400.00	15.75	102.74	1,392.10	-18.98	83.93	86.05	2.50	2.50	0.00
1,500.00	18.25	102.74	1,487.72	-25.43	112.44	115.28	2.50	2.50	0.00
1,600.00	20.75	102.74	1,581.98	-32.79	145.00	148.66	2.50	2.50	0.00
1,700.00	23.25	102.74	1,674.69	-41.05	181.53	186.12	2.50	2.50	0.00
1,798.74	25.72	102.74	1,764.54	-50.07	221.45	227.04	2.50	2.50	0.00
1,800.00	25.72	102.74	1,765.68	-50.19	221.98	227.58	0.00	0.00	0.00
1,900.00	25.72	102.74	1,855.77	-59.77	264.30	270.98	0.00	0.00	0.00
2,000.00	25.72	102.74	1,945.86	-69.34	306.63	314.37	0.00	0.00	0.00
2,100.00	25.72	102.74	2,035.96	-78.91	348.96	357.77	0.00	0.00	0.00
2,200.00	25.72	102.74	2,126.05	-88.48	391.28	401.16	0.00	0.00	0.00
2,300.00	25.72	102.74	2,216.14	-98.05	433.61	444.56	0.00	0.00	0.00
2,400.00	25.72	102.74	2,306.24	-107.62	475.94	487.95	0.00	0.00	0.00
2,500.00	25.72	102.74	2,396.33	-117.19	518.26	531.35	0.00	0.00	0.00
2,600.00	25.72	102.74	2,486.43	-126.76	560.59	574.74	0.00	0.00	0.00
2,700.00	25.72	102.74	2,576.52	-136.33	602.91	618.14	0.00	0.00	0.00
2,800.00	25.72	102.74	2,666.61	-145.91	645.24	661.53	0.00	0.00	0.00
2,900.00	25.72	102.74	2,756.71	-155.48	687.57	704.93	0.00	0.00	0.00
3,000.00	25.72	102.74	2,846.80	-165.05	729.89	748.32	0.00	0.00	0.00
3,100.00	25.72	102.74	2,936.89	-174.62	772.22	791.72	0.00	0.00	0.00
3,200.00	25.72	102.74	3,026.99	-184.19	814.55	835.11	0.00	0.00	0.00
3,300.00	25.72	102.74	3,117.08	-193.76	856.87	878.51	0.00	0.00	0.00
3,400.00	25.72	102.74	3,207.17	-203.33	899.20	921.90	0.00	0.00	0.00
3,500.00	25.72	102.74	3,297.27	-212.90	941.53	965.30	0.00	0.00	0.00
3,600.00	25.72	102.74	3,387.36	-222.47	983.85	1,008.69	0.00	0.00	0.00
3,700.00	25.72	102.74	3,477.46	-232.04	1,026.18	1,052.09	0.00	0.00	0.00
3,800.00	25.72	102.74	3,567.55	-241.62	1,068.50	1,095.48	0.00	0.00	0.00
3,900.00	25.72	102.74	3,657.64	-251.19	1,110.83	1,138.88	0.00	0.00	0.00
3,938.61	25.72	102.74	3,692.43	-254.88	1,127.17	1,155.63	0.00	0.00	0.00
4,000.00	24.80	102.74	3,747.95	-260.66	1,152.72	1,181.83	1.50	-1.50	0.00
4,100.00	23.30	102.74	3,839.27	-269.65	1,192.47	1,222.57	1.50	-1.50	0.00
4,200.00	21.80	102.74	3,931.62	-278.10	1,229.87	1,260.92	1.50	-1.50	0.00
4,300.00	20.30	102.74	4,024.95	-286.02	1,264.90	1,296.83	1.50	-1.50	0.00
4,400.00	18.80	102.74	4,119.18	-293.40	1,297.53	1,330.29	1.50	-1.50	0.00
4,500.00	17.30	102.74	4,214.26	-300.24	1,327.75	1,361.27	1.50	-1.50	0.00
4,600.00	15.80	102.74	4,310.11	-306.52	1,355.53	1,389.75	1.50	-1.50	0.00
4,700.00	14.30	102.74	4,406.68	-312.24	1,380.85	1,415.71	1.50	-1.50	0.00
4,800.00	12.80	102.74	4,503.90	-317.41	1,403.70	1,439.14	1.50	-1.50	0.00
4,900.00	11.30	102.74	4,601.69	-322.01	1,424.06	1,460.01	1.50	-1.50	0.00

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Project:	GARFIELD COUNTY, COLORADO NAD 1983	**MD Reference:**	WELL @ 5863.00ft (Original Well Elev)
Site:	Kaufman Pad #2 NENW-25-692	**North Reference:**	Grid
Well:	Kaufman 32D-25-692	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
5,000.00	9.80	102.74	4,700.00	-326.05	1,441.91	1,478.31	1.50	-1.50	0.00
5,100.00	8.30	102.74	4,798.75	-329.52	1,457.25	1,494.04	1.50	-1.50	0.00
5,200.00	6.80	102.74	4,897.88	-332.42	1,470.06	1,507.17	1.50	-1.50	0.00
5,300.00	5.30	102.74	4,997.32	-334.74	1,480.33	1,517.71	1.50	-1.50	0.00
5,400.00	3.80	102.74	5,097.00	-336.49	1,488.07	1,525.64	1.50	-1.50	0.00
5,500.00	2.30	102.74	5,196.86	-337.66	1,493.25	1,530.95	1.50	-1.50	0.00
5,600.00	0.80	102.74	5,296.82	-338.26	1,495.89	1,533.66	1.50	-1.50	0.00
5,653.18	0.00	0.00	5,350.00	-338.34	1,496.25	1,534.03	1.50	-1.50	0.00
5,700.00	0.00	0.00	5,396.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
5,800.00	0.00	0.00	5,496.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
5,900.00	0.00	0.00	5,596.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,000.00	0.00	0.00	5,696.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,100.00	0.00	0.00	5,796.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,200.00	0.00	0.00	5,896.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,300.00	0.00	0.00	5,996.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,400.00	0.00	0.00	6,096.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,500.00	0.00	0.00	6,196.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,600.00	0.00	0.00	6,296.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,700.00	0.00	0.00	6,396.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,800.00	0.00	0.00	6,496.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
6,900.00	0.00	0.00	6,596.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,000.00	0.00	0.00	6,696.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,100.00	0.00	0.00	6,796.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,200.00	0.00	0.00	6,896.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,300.00	0.00	0.00	6,996.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,400.00	0.00	0.00	7,096.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,500.00	0.00	0.00	7,196.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,600.00	0.00	0.00	7,296.82	-338.34	1,496.25	1,534.03	0.00	0.00	0.00
7,653.18	0.00	0.00	7,350.00	-338.34	1,496.25	1,534.03	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,625.13	3,410.00	Mesaverde		0.00	
4,516.48	4,230.00	Price Coal		0.00	
5,151.74	4,850.00	Top Gas		0.00	
7,353.18	7,050.00	Rollins		0.00	
	7,350.00	TD		0.00	

WELL DETAILS: Kaufman 32D-25-692

Ground Level: 5840.00

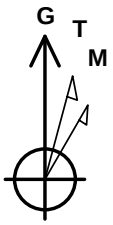
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1614827.817	2402292.909	39° 30' 8.449 N	107° 37' 6.2616 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	770.00	0.00	0.00	770.00	0.00	0.00	0.00	0.00	0.00	
3	1798.74	25.72	102.74	1764.54	-50.07	221.45	2.50	102.74	227.04	
4	3938.61	25.72	102.74	3692.43	-254.88	1127.17	0.00	0.00	1155.63	
5	5653.18	0.00	0.00	5350.00	-338.34	1496.25	1.50	180.00	1534.03	
6	7653.18	0.00	0.00	7350.00	-338.34	1496.25	0.00	0.00	1534.03	Kaufman 32D-25-692 (TD)

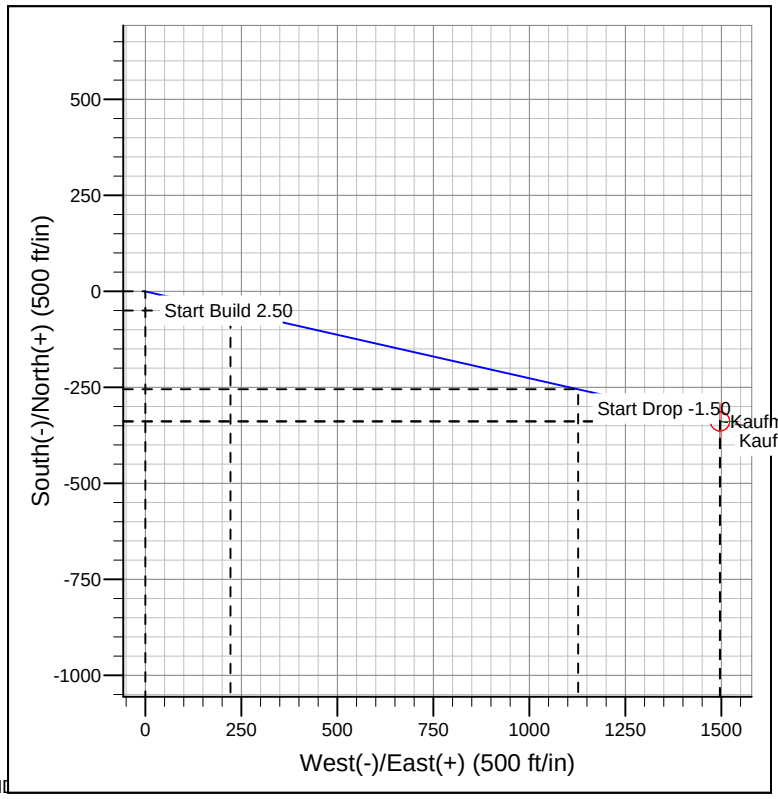
WELLBORE TARGET DETAILS

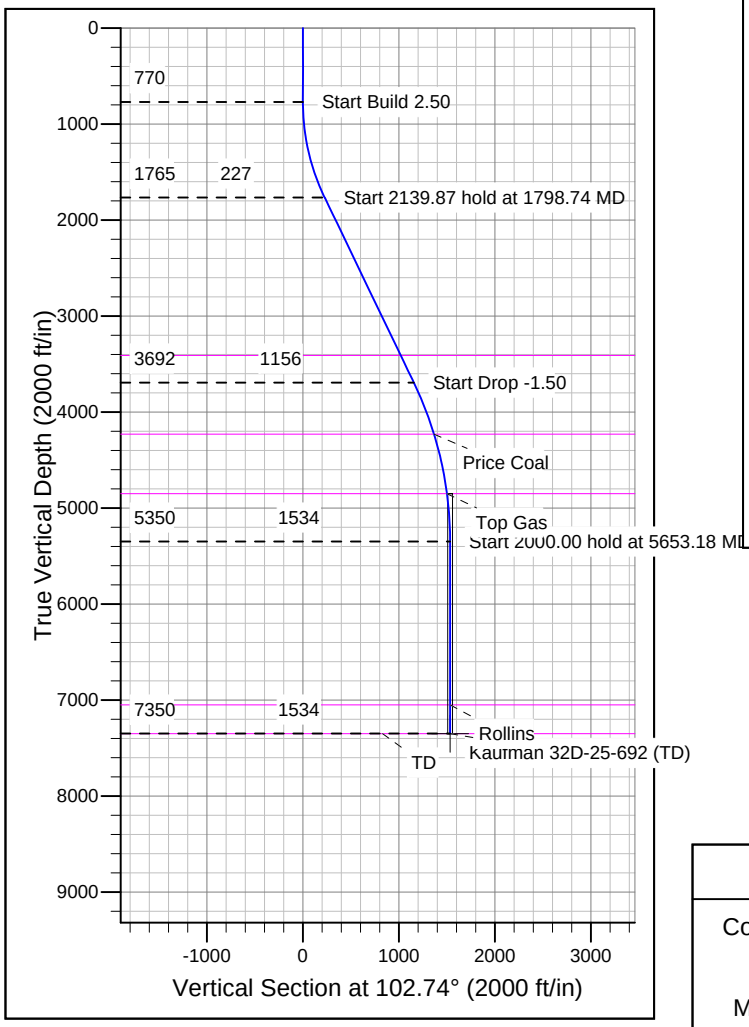
Name	TVD	+N/-S	+E/-W	Shape
Kaufman 32D-25-692 (TD)	7350.00	-338.34	1496.25	Circle (Radius: 25.00)



Azimuths to Grid North
True North: 1.34°
Magnetic North: 11.68°

Magnetic Field
Strength: 52478.6snT
Dip Angle: 65.87°
Date: 12/31/2009
Model: IGRF200510





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
		TD
3410.00	3625.13	Mesaverde
4230.00	4516.48	Price Coal
4850.00	5151.74	Top Gas
7050.00	7353.18	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 32D-25-692, Grid North
Vertical (TVD) Reference: WELL @ 5863.00ft (Original Well Elev)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: WELL @ 5863.00ft (Original Well Elev)
Calculation Method: Minimum Curvature