

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Dixon SENW-32D-23-692**

**Dixon Federal 32B-23-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**10 August, 2011**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 32B-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5964.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5964.00ft (Original Well Elev)
<b>Site:</b>	Dixon SENW-32D-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Dixon Federal 32B-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	GARFIELD COUNTY, COLORADO NAD 1983		
<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		

<b>Site</b>	Dixon SENW-32D-23-692		
<b>Site Position:</b>		<b>Northing:</b>	1,619,432.051 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,396,972.411 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 30' 52.711 N
		<b>Longitude:</b>	107° 38' 15.5040 W
		<b>Grid Convergence:</b>	-1.35 °

<b>Well</b>	Dixon Federal 32B-23-692		
<b>Well Position</b>	<b>+N/-S</b>	-27.34 ft	<b>Northing:</b>
	<b>+E/-W</b>	769.36 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<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	12/31/2009	10.36	65.87	52,482

<b>Design</b>	Design #1			
<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	107.05

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,256.10	11.40	107.05	1,253.10	-13.26	43.25	2.50	2.50	0.00	107.05	
5,070.12	11.40	107.05	4,991.84	-234.30	764.15	0.00	0.00	0.00	0.00	
5,830.29	0.00	0.00	5,747.00	-256.40	836.23	1.50	-1.50	0.00	180.00	
7,830.29	0.00	0.00	7,747.00	-256.40	836.23	0.00	0.00	0.00	0.00	Dixon Federal 32B-

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 32B-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5964.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5964.00ft (Original Well Elev)
<b>Site:</b>	Dixon SENW-32D-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Dixon Federal 32B-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	2.50	107.05	899.97	-0.64	2.09	2.18	2.50	2.50	0.00	
1,000.00	5.00	107.05	999.75	-2.56	8.34	8.72	2.50	2.50	0.00	
1,100.00	7.50	107.05	1,099.14	-5.75	18.75	19.61	2.50	2.50	0.00	
1,200.00	10.00	107.05	1,197.97	-10.21	33.29	34.82	2.50	2.50	0.00	
1,256.10	11.40	107.05	1,253.10	-13.26	43.25	45.23	2.50	2.50	0.00	
1,300.00	11.40	107.05	1,296.13	-15.80	51.55	53.91	0.00	0.00	0.00	
1,400.00	11.40	107.05	1,394.16	-21.60	70.45	73.68	0.00	0.00	0.00	
1,500.00	11.40	107.05	1,492.18	-27.40	89.35	93.45	0.00	0.00	0.00	
1,600.00	11.40	107.05	1,590.21	-33.19	108.25	113.22	0.00	0.00	0.00	
1,700.00	11.40	107.05	1,688.23	-38.99	127.15	132.99	0.00	0.00	0.00	
1,800.00	11.40	107.05	1,786.26	-44.78	146.05	152.76	0.00	0.00	0.00	
1,900.00	11.40	107.05	1,884.29	-50.58	164.95	172.53	0.00	0.00	0.00	
2,000.00	11.40	107.05	1,982.31	-56.37	183.86	192.30	0.00	0.00	0.00	
2,100.00	11.40	107.05	2,080.34	-62.17	202.76	212.07	0.00	0.00	0.00	
2,200.00	11.40	107.05	2,178.37	-67.96	221.66	231.84	0.00	0.00	0.00	
2,300.00	11.40	107.05	2,276.39	-73.76	240.56	251.61	0.00	0.00	0.00	
2,400.00	11.40	107.05	2,374.42	-79.56	259.46	271.38	0.00	0.00	0.00	
2,500.00	11.40	107.05	2,472.44	-85.35	278.36	291.15	0.00	0.00	0.00	
2,600.00	11.40	107.05	2,570.47	-91.15	297.26	310.92	0.00	0.00	0.00	
2,700.00	11.40	107.05	2,668.50	-96.94	316.17	330.69	0.00	0.00	0.00	
2,800.00	11.40	107.05	2,766.52	-102.74	335.07	350.46	0.00	0.00	0.00	
2,900.00	11.40	107.05	2,864.55	-108.53	353.97	370.23	0.00	0.00	0.00	
3,000.00	11.40	107.05	2,962.58	-114.33	372.87	390.00	0.00	0.00	0.00	
3,100.00	11.40	107.05	3,060.60	-120.12	391.77	409.77	0.00	0.00	0.00	
3,200.00	11.40	107.05	3,158.63	-125.92	410.67	429.54	0.00	0.00	0.00	
3,300.00	11.40	107.05	3,256.65	-131.72	429.57	449.31	0.00	0.00	0.00	
3,400.00	11.40	107.05	3,354.68	-137.51	448.48	469.08	0.00	0.00	0.00	
3,500.00	11.40	107.05	3,452.71	-143.31	467.38	488.85	0.00	0.00	0.00	
3,600.00	11.40	107.05	3,550.73	-149.10	486.28	508.62	0.00	0.00	0.00	
3,700.00	11.40	107.05	3,648.76	-154.90	505.18	528.39	0.00	0.00	0.00	
3,800.00	11.40	107.05	3,746.79	-160.69	524.08	548.16	0.00	0.00	0.00	
3,900.00	11.40	107.05	3,844.81	-166.49	542.98	567.93	0.00	0.00	0.00	
4,000.00	11.40	107.05	3,942.84	-172.28	561.88	587.70	0.00	0.00	0.00	
4,100.00	11.40	107.05	4,040.86	-178.08	580.79	607.47	0.00	0.00	0.00	
4,200.00	11.40	107.05	4,138.89	-183.88	599.69	627.24	0.00	0.00	0.00	
4,300.00	11.40	107.05	4,236.92	-189.67	618.59	647.01	0.00	0.00	0.00	
4,400.00	11.40	107.05	4,334.94	-195.47	637.49	666.78	0.00	0.00	0.00	
4,500.00	11.40	107.05	4,432.97	-201.26	656.39	686.55	0.00	0.00	0.00	
4,600.00	11.40	107.05	4,531.00	-207.06	675.29	706.32	0.00	0.00	0.00	
4,700.00	11.40	107.05	4,629.02	-212.85	694.19	726.09	0.00	0.00	0.00	
4,800.00	11.40	107.05	4,727.05	-218.65	713.09	745.86	0.00	0.00	0.00	
4,900.00	11.40	107.05	4,825.07	-224.44	732.00	765.63	0.00	0.00	0.00	
5,000.00	11.40	107.05	4,923.10	-230.24	750.90	785.40	0.00	0.00	0.00	
5,070.12	11.40	107.05	4,991.84	-234.30	764.15	799.27	0.00	0.00	0.00	

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 32B-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5964.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5964.00ft (Original Well Elev)
<b>Site:</b>	Dixon SENW-32D-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Dixon Federal 32B-23-692	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
5,100.00	10.95	107.05	5,021.15	-236.00	769.69	805.06	1.50	-1.50	0.00
5,200.00	9.45	107.05	5,119.57	-241.19	786.63	822.77	1.50	-1.50	0.00
5,300.00	7.95	107.05	5,218.41	-245.63	801.10	837.91	1.50	-1.50	0.00
5,400.00	6.45	107.05	5,317.62	-249.31	813.08	850.45	1.50	-1.50	0.00
5,500.00	4.95	107.05	5,417.12	-252.22	822.59	860.39	1.50	-1.50	0.00
5,600.00	3.45	107.05	5,516.85	-254.37	829.60	867.72	1.50	-1.50	0.00
5,700.00	1.95	107.05	5,616.73	-255.75	834.11	872.44	1.50	-1.50	0.00
5,800.00	0.45	107.05	5,716.71	-256.37	836.12	874.54	1.50	-1.50	0.00
5,830.29	0.00	0.00	5,747.00	-256.40	836.23	874.66	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,816.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,000.00	0.00	0.00	5,916.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,100.00	0.00	0.00	6,016.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,200.00	0.00	0.00	6,116.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,300.00	0.00	0.00	6,216.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,400.00	0.00	0.00	6,316.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,500.00	0.00	0.00	6,416.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,600.00	0.00	0.00	6,516.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,700.00	0.00	0.00	6,616.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,800.00	0.00	0.00	6,716.71	-256.40	836.23	874.66	0.00	0.00	0.00
6,900.00	0.00	0.00	6,816.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,000.00	0.00	0.00	6,916.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,100.00	0.00	0.00	7,016.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,200.00	0.00	0.00	7,116.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,300.00	0.00	0.00	7,216.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,400.00	0.00	0.00	7,316.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,500.00	0.00	0.00	7,416.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,600.00	0.00	0.00	7,516.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,700.00	0.00	0.00	7,616.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,800.00	0.00	0.00	7,716.71	-256.40	836.23	874.66	0.00	0.00	0.00
7,830.29	0.00	0.00	7,747.00	-256.40	836.23	874.66	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
800.00	800.00	9 5/8"	9-5/8	12-1/4

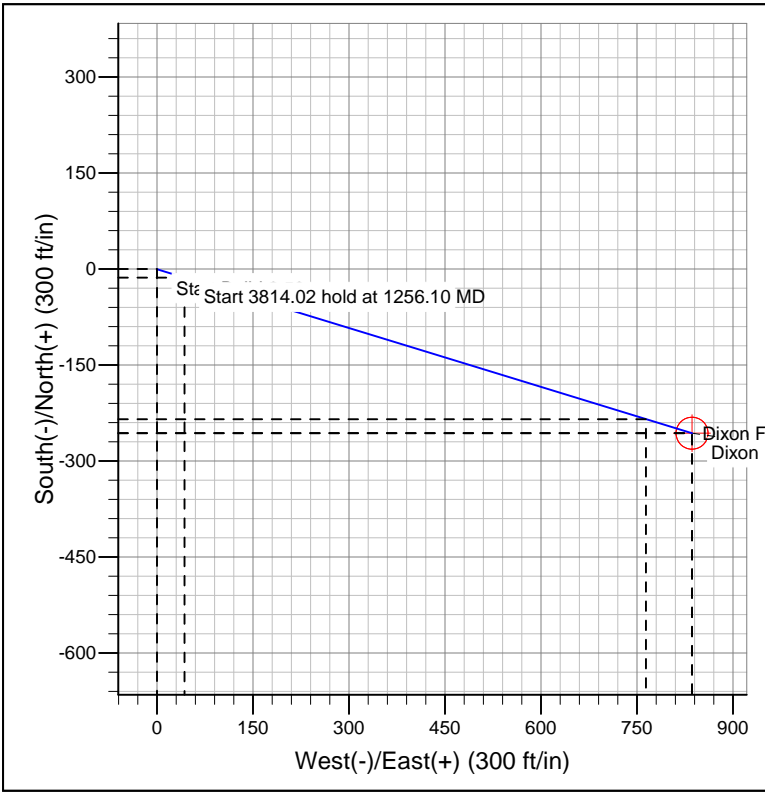
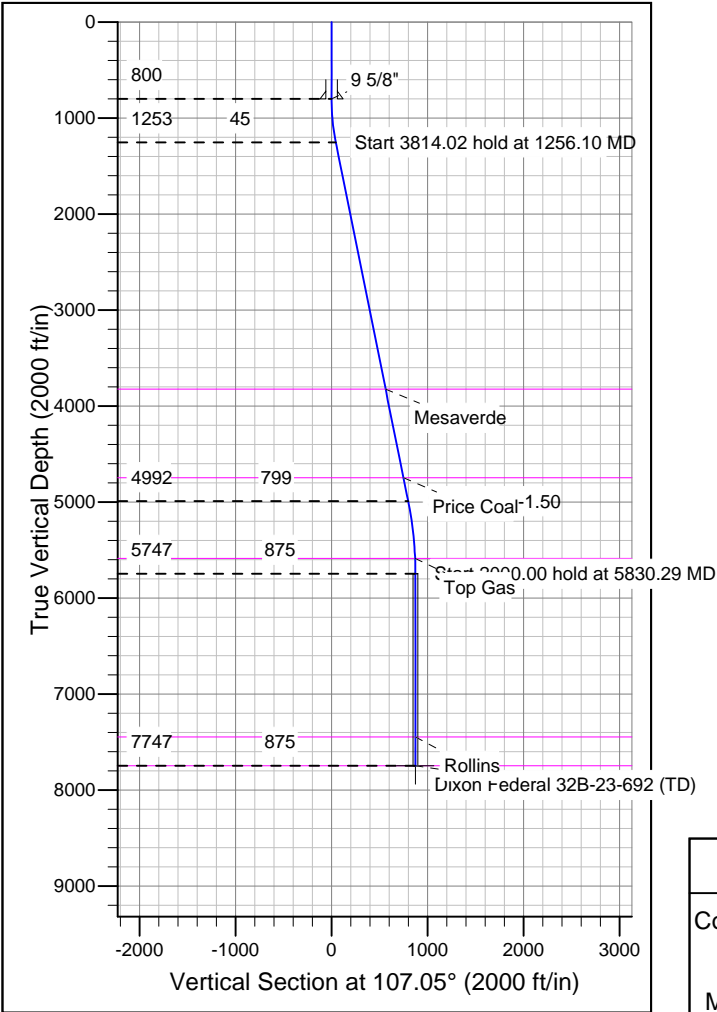
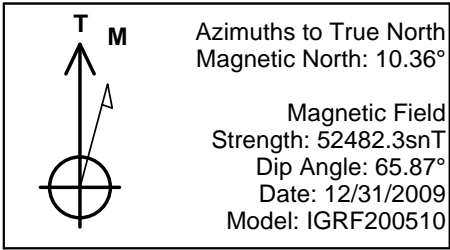
Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,876.73	3,822.00	Mesaverde		0.00	
4,820.35	4,747.00	Price Coal		0.00	
5,670.24	5,587.00	Top Gas		0.00	
7,530.29	7,447.00	Rollins		0.00	
7,830.29	7,747.00	TD		0.00	

# WELL DETAILS: Dixon Federal 32B-23-692

		Ground Level:		0.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1619386.642	2397740.913	39° 30' 52.441 N	107° 38' 5.6868 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	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1256.10	11.40	107.05	1253.10	-13.26	43.25	2.50	107.05	45.23	
4	5070.12	11.40	107.05	4991.84	-234.30	764.15	0.00	0.00	799.27	
5	5830.29	0.00	0.00	5747.00	-256.40	836.23	1.50	180.00	874.66	
6	7830.29	0.00	0.00	7747.00	-256.40	836.23	0.00	0.00	874.66	Dixon Federal 32B-23-692 (TD)

WELLBORE TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Shape	
Dixon Federal 32B-23-692 (TD)	7747.00	-256.40	836.23	Circle (Radius: 25.00)	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3822.00	3876.73	Mesaverde
4747.00	4820.35	Price Coal
5587.00	5670.24	Top Gas
7447.00	7530.29	Rollins
7747.00	7830.29	TD

REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well Dixon Federal 32B-23-692, True North
Vertical (TVD) Reference:	WELL @ 5964.00ft (Original Well Elev)
Section (VS) Reference:	Slot - (0.00N, 0.00E)
Measured Depth Reference:	WELL @ 5964.00ft (Original Well Elev)
Calculation Method:	Minimum Curvature