

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

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

**Dixon Federal 32C-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 32C-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 32C-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 32C-23-692		
<b>Well Position</b>	<b>+N/-S</b>	-19.33 ft	<b>Northing:</b>
	<b>+E/-W</b>	769.08 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 52.520 N
			<b>Longitude:</b>
			107° 38' 5.6904 W
			<b>Ground Level:</b>
			0.00 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	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	84.33

<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	
1,233.22	10.83	84.33	1,230.64	4.03	40.62	2.50	2.50	0.00	84.33	
5,110.91	10.83	84.33	5,039.26	75.99	765.69	0.00	0.00	0.00	0.00	
5,832.94	0.00	0.00	5,757.00	82.71	833.40	1.50	-1.50	0.00	180.00	
7,832.94	0.00	0.00	7,757.00	82.71	833.40	0.00	0.00	0.00	0.00	Dixon Federal 32C-

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<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 32C-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	84.33	899.97	0.22	2.17	2.18	2.50	2.50	0.00	
1,000.00	5.00	84.33	999.75	0.86	8.68	8.72	2.50	2.50	0.00	
1,100.00	7.50	84.33	1,099.14	1.94	19.51	19.61	2.50	2.50	0.00	
1,200.00	10.00	84.33	1,197.97	3.44	34.65	34.82	2.50	2.50	0.00	
1,233.22	10.83	84.33	1,230.64	4.03	40.62	40.82	2.50	2.50	0.00	
1,300.00	10.83	84.33	1,296.24	5.27	53.11	53.37	0.00	0.00	0.00	
1,400.00	10.83	84.33	1,394.45	7.13	71.81	72.16	0.00	0.00	0.00	
1,500.00	10.83	84.33	1,492.67	8.98	90.51	90.95	0.00	0.00	0.00	
1,600.00	10.83	84.33	1,590.89	10.84	109.21	109.74	0.00	0.00	0.00	
1,700.00	10.83	84.33	1,689.11	12.69	127.90	128.53	0.00	0.00	0.00	
1,800.00	10.83	84.33	1,787.33	14.55	146.60	147.32	0.00	0.00	0.00	
1,900.00	10.83	84.33	1,885.55	16.40	165.30	166.11	0.00	0.00	0.00	
2,000.00	10.83	84.33	1,983.77	18.26	184.00	184.90	0.00	0.00	0.00	
2,100.00	10.83	84.33	2,081.99	20.12	202.70	203.69	0.00	0.00	0.00	
2,200.00	10.83	84.33	2,180.20	21.97	221.40	222.48	0.00	0.00	0.00	
2,300.00	10.83	84.33	2,278.42	23.83	240.10	241.28	0.00	0.00	0.00	
2,400.00	10.83	84.33	2,376.64	25.68	258.79	260.07	0.00	0.00	0.00	
2,500.00	10.83	84.33	2,474.86	27.54	277.49	278.86	0.00	0.00	0.00	
2,600.00	10.83	84.33	2,573.08	29.39	296.19	297.65	0.00	0.00	0.00	
2,700.00	10.83	84.33	2,671.30	31.25	314.89	316.44	0.00	0.00	0.00	
2,800.00	10.83	84.33	2,769.52	33.10	333.59	335.23	0.00	0.00	0.00	
2,900.00	10.83	84.33	2,867.74	34.96	352.29	354.02	0.00	0.00	0.00	
3,000.00	10.83	84.33	2,965.95	36.82	370.99	372.81	0.00	0.00	0.00	
3,100.00	10.83	84.33	3,064.17	38.67	389.68	391.60	0.00	0.00	0.00	
3,200.00	10.83	84.33	3,162.39	40.53	408.38	410.39	0.00	0.00	0.00	
3,300.00	10.83	84.33	3,260.61	42.38	427.08	429.18	0.00	0.00	0.00	
3,400.00	10.83	84.33	3,358.83	44.24	445.78	447.97	0.00	0.00	0.00	
3,500.00	10.83	84.33	3,457.05	46.09	464.48	466.76	0.00	0.00	0.00	
3,600.00	10.83	84.33	3,555.27	47.95	483.18	485.55	0.00	0.00	0.00	
3,700.00	10.83	84.33	3,653.49	49.81	501.87	504.34	0.00	0.00	0.00	
3,800.00	10.83	84.33	3,751.70	51.66	520.57	523.13	0.00	0.00	0.00	
3,900.00	10.83	84.33	3,849.92	53.52	539.27	541.92	0.00	0.00	0.00	
4,000.00	10.83	84.33	3,948.14	55.37	557.97	560.71	0.00	0.00	0.00	
4,100.00	10.83	84.33	4,046.36	57.23	576.67	579.50	0.00	0.00	0.00	
4,200.00	10.83	84.33	4,144.58	59.08	595.37	598.29	0.00	0.00	0.00	
4,300.00	10.83	84.33	4,242.80	60.94	614.07	617.08	0.00	0.00	0.00	
4,400.00	10.83	84.33	4,341.02	62.79	632.76	635.87	0.00	0.00	0.00	
4,500.00	10.83	84.33	4,439.24	64.65	651.46	654.66	0.00	0.00	0.00	
4,600.00	10.83	84.33	4,537.45	66.51	670.16	673.45	0.00	0.00	0.00	
4,700.00	10.83	84.33	4,635.67	68.36	688.86	692.24	0.00	0.00	0.00	
4,800.00	10.83	84.33	4,733.89	70.22	707.56	711.03	0.00	0.00	0.00	
4,900.00	10.83	84.33	4,832.11	72.07	726.26	729.82	0.00	0.00	0.00	
5,000.00	10.83	84.33	4,930.33	73.93	744.95	748.61	0.00	0.00	0.00	
5,100.00	10.83	84.33	5,028.55	75.78	763.65	767.40	0.00	0.00	0.00	

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<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 32C-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)
5,110.91	10.83	84.33	5,039.26	75.99	765.69	769.45	0.00	0.00	0.00
5,200.00	9.49	84.33	5,126.95	77.54	781.33	785.17	1.50	-1.50	0.00
5,300.00	7.99	84.33	5,225.79	79.04	796.46	800.37	1.50	-1.50	0.00
5,400.00	6.49	84.33	5,324.99	80.29	809.01	812.98	1.50	-1.50	0.00
5,500.00	4.99	84.33	5,424.48	81.27	818.97	822.99	1.50	-1.50	0.00
5,600.00	3.49	84.33	5,524.21	82.00	826.33	830.39	1.50	-1.50	0.00
5,700.00	1.99	84.33	5,624.09	82.48	831.10	835.18	1.50	-1.50	0.00
5,800.00	0.49	84.33	5,724.06	82.69	833.26	837.35	1.50	-1.50	0.00
5,832.94	0.00	0.00	5,757.00	82.71	833.40	837.49	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,824.06	82.71	833.40	837.49	0.00	0.00	0.00
6,000.00	0.00	0.00	5,924.06	82.71	833.40	837.49	0.00	0.00	0.00
6,100.00	0.00	0.00	6,024.06	82.71	833.40	837.49	0.00	0.00	0.00
6,200.00	0.00	0.00	6,124.06	82.71	833.40	837.49	0.00	0.00	0.00
6,300.00	0.00	0.00	6,224.06	82.71	833.40	837.49	0.00	0.00	0.00
6,400.00	0.00	0.00	6,324.06	82.71	833.40	837.49	0.00	0.00	0.00
6,500.00	0.00	0.00	6,424.06	82.71	833.40	837.49	0.00	0.00	0.00
6,600.00	0.00	0.00	6,524.06	82.71	833.40	837.49	0.00	0.00	0.00
6,700.00	0.00	0.00	6,624.06	82.71	833.40	837.49	0.00	0.00	0.00
6,800.00	0.00	0.00	6,724.06	82.71	833.40	837.49	0.00	0.00	0.00
6,900.00	0.00	0.00	6,824.06	82.71	833.40	837.49	0.00	0.00	0.00
7,000.00	0.00	0.00	6,924.06	82.71	833.40	837.49	0.00	0.00	0.00
7,100.00	0.00	0.00	7,024.06	82.71	833.40	837.49	0.00	0.00	0.00
7,200.00	0.00	0.00	7,124.06	82.71	833.40	837.49	0.00	0.00	0.00
7,300.00	0.00	0.00	7,224.06	82.71	833.40	837.49	0.00	0.00	0.00
7,400.00	0.00	0.00	7,324.06	82.71	833.40	837.49	0.00	0.00	0.00
7,500.00	0.00	0.00	7,424.06	82.71	833.40	837.49	0.00	0.00	0.00
7,600.00	0.00	0.00	7,524.06	82.71	833.40	837.49	0.00	0.00	0.00
7,700.00	0.00	0.00	7,624.06	82.71	833.40	837.49	0.00	0.00	0.00
7,800.00	0.00	0.00	7,724.06	82.71	833.40	837.49	0.00	0.00	0.00
7,832.94	0.00	0.00	7,757.00	82.71	833.40	837.49	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 (°)
3,876.66	3,827.00	Mesaverde		0.00	
4,823.53	4,757.00	Price Coal		0.00	
5,672.89	5,597.00	Top Gas		0.00	
7,532.94	7,457.00	Rollins		0.00	
7,832.94	7,757.00	TD		0.00	

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

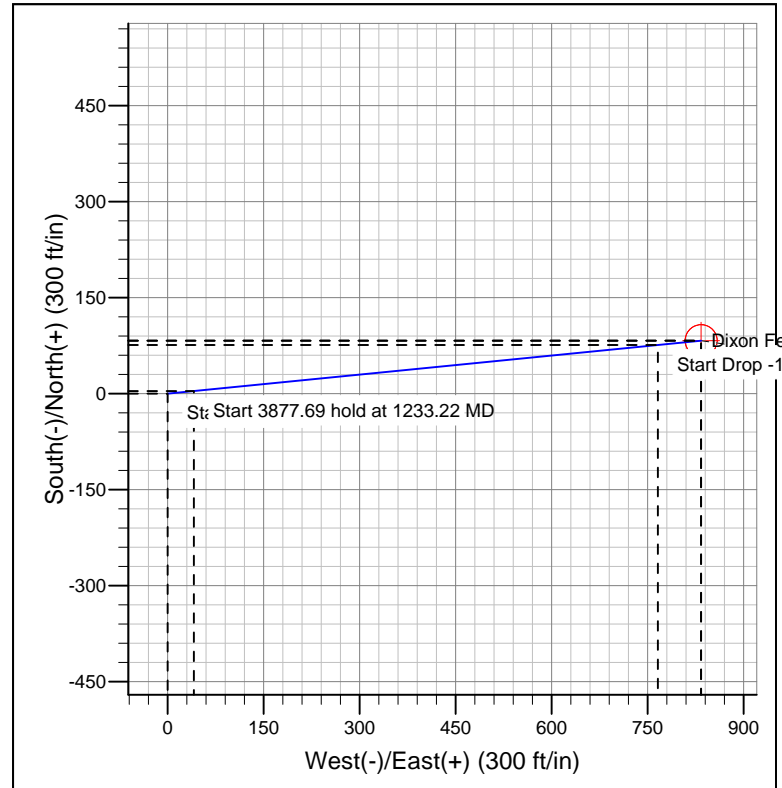
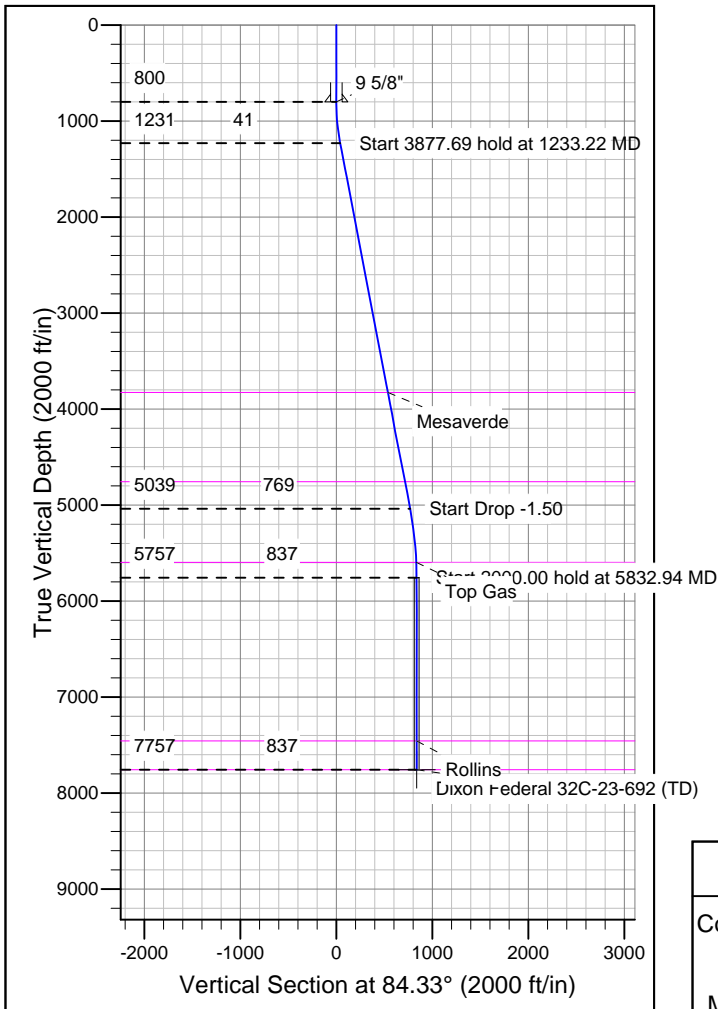
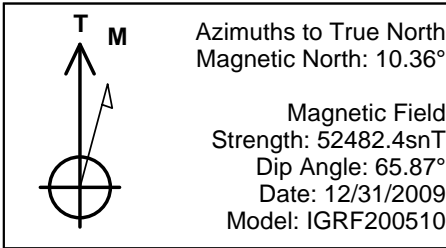
Ground Level: 0.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1619394.659	2397740.819	39° 30' 52.520 N	107° 38' 5.6904 W	

## 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	1233.22	10.83	84.33	1230.64	4.03	40.62	2.50	84.33	40.82	
4	5110.91	10.83	84.33	5039.26	75.99	765.69	0.00	0.00	769.45	
5	5832.94	0.00	0.00	5757.00	82.71	833.40	1.50	180.00	837.49	
6	7832.94	0.00	0.00	7757.00	82.71	833.40	0.00	0.00	837.49	Dixon Federal 32C-23-692 (TD)

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Dixon Federal 32C-23-692 (TD)	7757.00	82.71	833.40	Circle (Radius: 25.00)



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3827.00	3876.66	Mesaverde
4757.00	4823.53	Price Coal
5597.00	5672.89	Top Gas
7457.00	7532.94	Rollins
7757.00	7832.94	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Dixon Federal 32C-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