

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Dixon SWNW-23-692**

**Dixon Federal 11B-23-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**04 August, 2011**

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 11B-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5815.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5815.00ft (Original Well Elev)
<b>Site:</b>	Dixon SWNW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Dixon Federal 11B-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 SWNW-23-692		
<b>Site Position:</b>		<b>Northing:</b>	1,620,383.301 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,395,551.941 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 31' 1.780 N
		<b>Longitude:</b>	107° 38' 33.9108 W
		<b>Grid Convergence:</b>	-1.35 °

<b>Well</b>	Dixon Federal 11B-23-692		
<b>Well Position</b>	<b>+N/-S</b>	-511.41 ft	<b>Northing:</b>
	<b>+E/-W</b>	86.05 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 56.725 N
			<b>Longitude:</b>
			107° 38' 32.8128 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	52,483

<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	25.21

<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	
1,159.82	9.00	25.21	1,158.34	25.50	12.01	2.50	2.50	0.00	25.21	
5,131.09	9.00	25.21	5,080.77	587.28	276.49	0.00	0.00	0.00	0.00	
5,730.78	0.00	0.00	5,678.00	629.79	296.50	1.50	-1.50	0.00	180.00	
7,730.78	0.00	0.00	7,678.00	629.79	296.50	0.00	0.00	0.00	0.00	Dixon Federal 11B-

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 11B-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5815.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5815.00ft (Original Well Elev)
<b>Site:</b>	Dixon SWNW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Dixon Federal 11B-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	25.21	899.97	1.97	0.93	2.18	2.50	2.50	0.00	
1,000.00	5.00	25.21	999.75	7.89	3.71	8.72	2.50	2.50	0.00	
1,100.00	7.50	25.21	1,099.14	17.74	8.35	19.61	2.50	2.50	0.00	
1,159.82	9.00	25.21	1,158.34	25.50	12.01	28.19	2.50	2.50	0.00	
1,200.00	9.00	25.21	1,198.03	31.19	14.68	34.47	0.00	0.00	0.00	
1,300.00	9.00	25.21	1,296.80	45.33	21.34	50.11	0.00	0.00	0.00	
1,400.00	9.00	25.21	1,395.57	59.48	28.00	65.74	0.00	0.00	0.00	
1,500.00	9.00	25.21	1,494.34	73.63	34.66	81.38	0.00	0.00	0.00	
1,600.00	9.00	25.21	1,593.11	87.77	41.32	97.01	0.00	0.00	0.00	
1,700.00	9.00	25.21	1,691.88	101.92	47.98	112.65	0.00	0.00	0.00	
1,800.00	9.00	25.21	1,790.65	116.06	54.64	128.28	0.00	0.00	0.00	
1,900.00	9.00	25.21	1,889.42	130.21	61.30	143.92	0.00	0.00	0.00	
2,000.00	9.00	25.21	1,988.19	144.36	67.96	159.55	0.00	0.00	0.00	
2,100.00	9.00	25.21	2,086.96	158.50	74.62	175.19	0.00	0.00	0.00	
2,200.00	9.00	25.21	2,185.73	172.65	81.28	190.82	0.00	0.00	0.00	
2,300.00	9.00	25.21	2,284.50	186.79	87.94	206.46	0.00	0.00	0.00	
2,400.00	9.00	25.21	2,383.27	200.94	94.60	222.10	0.00	0.00	0.00	
2,500.00	9.00	25.21	2,482.04	215.09	101.26	237.73	0.00	0.00	0.00	
2,600.00	9.00	25.21	2,580.81	229.23	107.92	253.37	0.00	0.00	0.00	
2,700.00	9.00	25.21	2,679.58	243.38	114.58	269.00	0.00	0.00	0.00	
2,800.00	9.00	25.21	2,778.35	257.52	121.24	284.64	0.00	0.00	0.00	
2,900.00	9.00	25.21	2,877.12	271.67	127.90	300.27	0.00	0.00	0.00	
3,000.00	9.00	25.21	2,975.89	285.82	134.56	315.91	0.00	0.00	0.00	
3,100.00	9.00	25.21	3,074.66	299.96	141.22	331.54	0.00	0.00	0.00	
3,200.00	9.00	25.21	3,173.43	314.11	147.88	347.18	0.00	0.00	0.00	
3,300.00	9.00	25.21	3,272.20	328.25	154.54	362.81	0.00	0.00	0.00	
3,400.00	9.00	25.21	3,370.97	342.40	161.20	378.45	0.00	0.00	0.00	
3,500.00	9.00	25.21	3,469.74	356.55	167.86	394.09	0.00	0.00	0.00	
3,600.00	9.00	25.21	3,568.51	370.69	174.52	409.72	0.00	0.00	0.00	
3,700.00	9.00	25.21	3,667.28	384.84	181.18	425.36	0.00	0.00	0.00	
3,800.00	9.00	25.21	3,766.05	398.99	187.84	440.99	0.00	0.00	0.00	
3,900.00	9.00	25.21	3,864.82	413.13	194.50	456.63	0.00	0.00	0.00	
4,000.00	9.00	25.21	3,963.59	427.28	201.16	472.26	0.00	0.00	0.00	
4,100.00	9.00	25.21	4,062.36	441.42	207.82	487.90	0.00	0.00	0.00	
4,200.00	9.00	25.21	4,161.13	455.57	214.48	503.53	0.00	0.00	0.00	
4,300.00	9.00	25.21	4,259.90	469.72	221.14	519.17	0.00	0.00	0.00	
4,400.00	9.00	25.21	4,358.67	483.86	227.80	534.80	0.00	0.00	0.00	
4,500.00	9.00	25.21	4,457.44	498.01	234.46	550.44	0.00	0.00	0.00	
4,600.00	9.00	25.21	4,556.21	512.15	241.12	566.08	0.00	0.00	0.00	
4,700.00	9.00	25.21	4,654.98	526.30	247.78	581.71	0.00	0.00	0.00	
4,800.00	9.00	25.21	4,753.75	540.45	254.44	597.35	0.00	0.00	0.00	
4,900.00	9.00	25.21	4,852.52	554.59	261.10	612.98	0.00	0.00	0.00	
5,000.00	9.00	25.21	4,951.29	568.74	267.76	628.62	0.00	0.00	0.00	
5,100.00	9.00	25.21	5,050.06	582.88	274.42	644.25	0.00	0.00	0.00	

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 11B-23-692
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	WELL @ 5815.00ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO NAD 1983	<b>MD Reference:</b>	WELL @ 5815.00ft (Original Well Elev)
<b>Site:</b>	Dixon SWNW-23-692	<b>North Reference:</b>	True
<b>Well:</b>	Dixon Federal 11B-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)
5,131.09	9.00	25.21	5,080.77	587.28	276.49	649.11	0.00	0.00	0.00
5,200.00	7.96	25.21	5,148.93	596.47	280.82	659.27	1.50	-1.50	0.00
5,300.00	6.46	25.21	5,248.13	607.83	286.17	671.83	1.50	-1.50	0.00
5,400.00	4.96	25.21	5,347.63	616.84	290.41	681.78	1.50	-1.50	0.00
5,500.00	3.46	25.21	5,447.36	623.48	293.53	689.12	1.50	-1.50	0.00
5,600.00	1.96	25.21	5,547.25	627.76	295.55	693.85	1.50	-1.50	0.00
5,700.00	0.46	25.21	5,647.22	629.67	296.45	695.97	1.50	-1.50	0.00
5,730.78	0.00	0.00	5,678.00	629.79	296.50	696.09	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,747.22	629.79	296.50	696.09	0.00	0.00	0.00
5,900.00	0.00	0.00	5,847.22	629.79	296.50	696.09	0.00	0.00	0.00
6,000.00	0.00	0.00	5,947.22	629.79	296.50	696.09	0.00	0.00	0.00
6,100.00	0.00	0.00	6,047.22	629.79	296.50	696.09	0.00	0.00	0.00
6,200.00	0.00	0.00	6,147.22	629.79	296.50	696.09	0.00	0.00	0.00
6,300.00	0.00	0.00	6,247.22	629.79	296.50	696.09	0.00	0.00	0.00
6,400.00	0.00	0.00	6,347.22	629.79	296.50	696.09	0.00	0.00	0.00
6,500.00	0.00	0.00	6,447.22	629.79	296.50	696.09	0.00	0.00	0.00
6,600.00	0.00	0.00	6,547.22	629.79	296.50	696.09	0.00	0.00	0.00
6,700.00	0.00	0.00	6,647.22	629.79	296.50	696.09	0.00	0.00	0.00
6,800.00	0.00	0.00	6,747.22	629.79	296.50	696.09	0.00	0.00	0.00
6,900.00	0.00	0.00	6,847.22	629.79	296.50	696.09	0.00	0.00	0.00
7,000.00	0.00	0.00	6,947.22	629.79	296.50	696.09	0.00	0.00	0.00
7,100.00	0.00	0.00	7,047.22	629.79	296.50	696.09	0.00	0.00	0.00
7,200.00	0.00	0.00	7,147.22	629.79	296.50	696.09	0.00	0.00	0.00
7,300.00	0.00	0.00	7,247.22	629.79	296.50	696.09	0.00	0.00	0.00
7,400.00	0.00	0.00	7,347.22	629.79	296.50	696.09	0.00	0.00	0.00
7,500.00	0.00	0.00	7,447.22	629.79	296.50	696.09	0.00	0.00	0.00
7,600.00	0.00	0.00	7,547.22	629.79	296.50	696.09	0.00	0.00	0.00
7,700.00	0.00	0.00	7,647.22	629.79	296.50	696.09	0.00	0.00	0.00
7,730.78	0.00	0.00	7,678.00	629.79	296.50	696.09	0.00	0.00	0.00

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
770.00	770.00	9 5/8"	9-5/8	12-1/4

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,781.72	3,748.00	Mesaverde		0.00	
4,703.05	4,658.00	Price Coal		0.00	
5,475.59	5,423.00	Top Gas		0.00	
7,430.78	7,378.00	Rollins		0.00	
7,730.78	7,678.00	TD		0.00	

## WELL DETAILS: Federal 11B-26-692

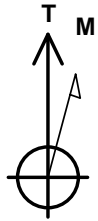
+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.00	0.00	1614933.149	2396817.419		39° 30' 8.222 N	107° 38' 16.1304 W	

## 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	1349.67	13.74	288.08	1344.41	20.36	-62.36	2.50	288.08	65.60	
4	4848.04	13.74	288.08	4742.65	278.26	-852.35	0.00	0.00	896.62	
5	5764.15	0.00	0.00	5650.00	312.19	-956.28	1.50	180.00	1005.95	
6	7764.15	0.00	0.00	7650.00	312.19	-956.28	0.00	0.00	1005.95	Carter 11B-26-692 (TD)

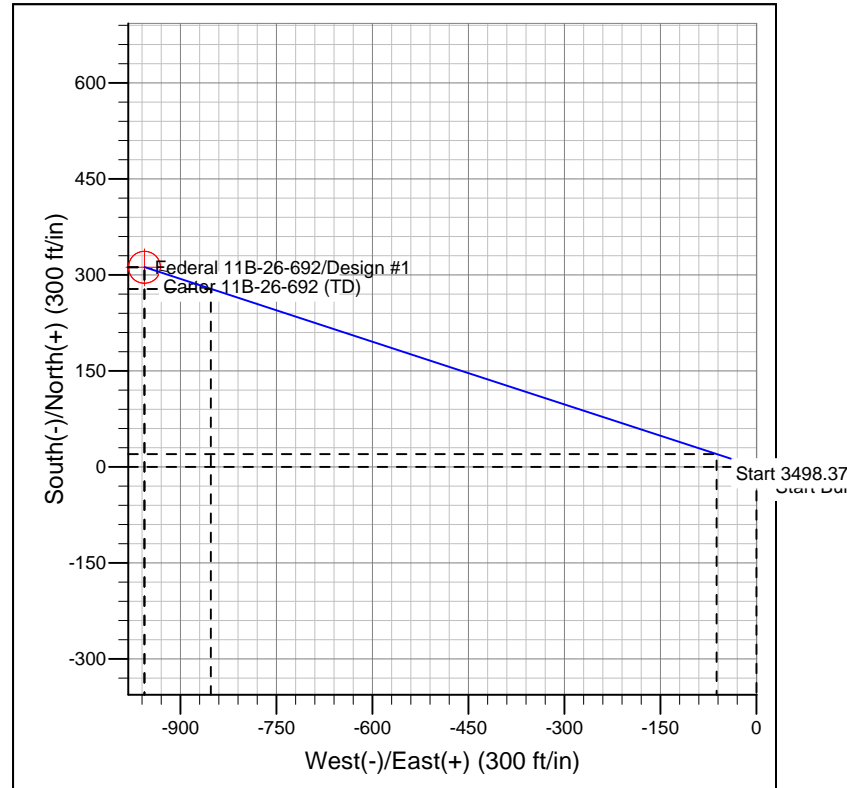
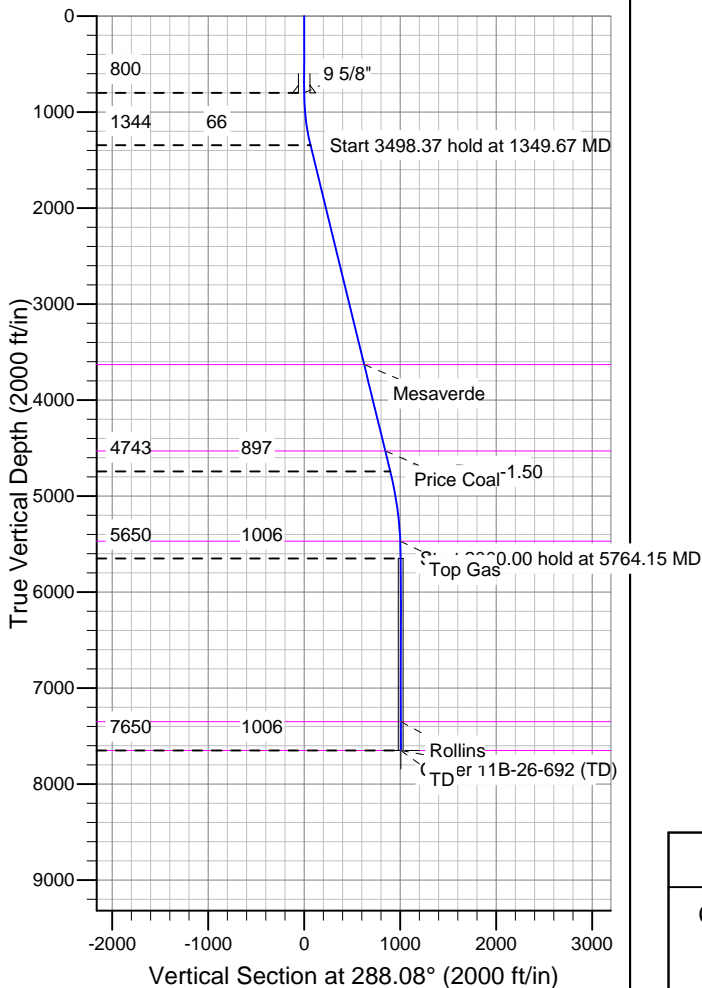
## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Carter 11B-26-692 (TD)	7650.00	312.19	-956.28	Circle (Radius: 25.00)



Azimuths to True North  
Magnetic North: 10.36°

Magnetic Field  
Strength: 52474.5nT  
Dip Angle: 65.86°  
Date: 12/31/2009  
Model: IGRF200510



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3630.00	3702.60	Mesaverde
4530.00	4629.12	Price Coal
5470.00	5584.08	Top Gas
7350.00	7464.15	Rollins
7650.00	7764.15	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Federal 11B-26-692, True North  
Vertical (TVD) Reference: WELL @ 6057.00ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: WELL @ 6057.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature