

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

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

**Dixon Federal 32D-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 32D-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 32D-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		

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

Well	Dixon Federal 32D-23-692					
Well Position	+N-S	-11.31 ft	Northing:	1,619,402.671 ft	Latitude:	39° 30' 52.599 N
	+E-W	769.08 ft	Easting:	2,397,741.007 ft	Longitude:	107° 38' 5.6904 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	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	63.09

<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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,287.07	12.18	63.09	1,283.41	23.34	45.98	2.50	2.50	0.00	63.09	
5,049.63	12.18	63.09	4,961.32	382.55	753.65	0.00	0.00	0.00	0.00	
5,861.41	0.00	0.00	5,767.00	421.45	830.28	1.50	-1.50	0.00	180.00	
7,861.41	0.00	0.00	7,767.00	421.45	830.28	0.00	0.00	0.00	0.00	Dixon Federal 32D-

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## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 32D-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 32D-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	63.09	899.97	0.99	1.95	2.18	2.50	2.50	0.00	
1,000.00	5.00	63.09	999.75	3.95	7.78	8.72	2.50	2.50	0.00	
1,100.00	7.50	63.09	1,099.14	8.87	17.48	19.61	2.50	2.50	0.00	
1,200.00	10.00	63.09	1,197.97	15.76	31.05	34.82	2.50	2.50	0.00	
1,287.07	12.18	63.09	1,283.41	23.34	45.98	51.56	2.50	2.50	0.00	
1,300.00	12.18	63.09	1,296.05	24.57	48.41	54.29	0.00	0.00	0.00	
1,400.00	12.18	63.09	1,393.80	34.12	67.22	75.38	0.00	0.00	0.00	
1,500.00	12.18	63.09	1,491.55	43.67	86.03	96.48	0.00	0.00	0.00	
1,600.00	12.18	63.09	1,589.30	53.21	104.84	117.57	0.00	0.00	0.00	
1,700.00	12.18	63.09	1,687.05	62.76	123.64	138.66	0.00	0.00	0.00	
1,800.00	12.18	63.09	1,784.80	72.31	142.45	159.75	0.00	0.00	0.00	
1,900.00	12.18	63.09	1,882.55	81.86	161.26	180.85	0.00	0.00	0.00	
2,000.00	12.18	63.09	1,980.30	91.40	180.07	201.94	0.00	0.00	0.00	
2,100.00	12.18	63.09	2,078.05	100.95	198.88	223.03	0.00	0.00	0.00	
2,200.00	12.18	63.09	2,175.80	110.50	217.69	244.12	0.00	0.00	0.00	
2,300.00	12.18	63.09	2,273.55	120.04	236.49	265.22	0.00	0.00	0.00	
2,400.00	12.18	63.09	2,371.30	129.59	255.30	286.31	0.00	0.00	0.00	
2,500.00	12.18	63.09	2,469.05	139.14	274.11	307.40	0.00	0.00	0.00	
2,600.00	12.18	63.09	2,566.80	148.69	292.92	328.50	0.00	0.00	0.00	
2,700.00	12.18	63.09	2,664.55	158.23	311.73	349.59	0.00	0.00	0.00	
2,800.00	12.18	63.09	2,762.30	167.78	330.54	370.68	0.00	0.00	0.00	
2,900.00	12.18	63.09	2,860.05	177.33	349.34	391.77	0.00	0.00	0.00	
3,000.00	12.18	63.09	2,957.80	186.87	368.15	412.87	0.00	0.00	0.00	
3,100.00	12.18	63.09	3,055.55	196.42	386.96	433.96	0.00	0.00	0.00	
3,200.00	12.18	63.09	3,153.30	205.97	405.77	455.05	0.00	0.00	0.00	
3,300.00	12.18	63.09	3,251.05	215.51	424.58	476.14	0.00	0.00	0.00	
3,400.00	12.18	63.09	3,348.80	225.06	443.39	497.24	0.00	0.00	0.00	
3,500.00	12.18	63.09	3,446.55	234.61	462.19	518.33	0.00	0.00	0.00	
3,600.00	12.18	63.09	3,544.30	244.16	481.00	539.42	0.00	0.00	0.00	
3,700.00	12.18	63.09	3,642.06	253.70	499.81	560.51	0.00	0.00	0.00	
3,800.00	12.18	63.09	3,739.81	263.25	518.62	581.61	0.00	0.00	0.00	
3,900.00	12.18	63.09	3,837.56	272.80	537.43	602.70	0.00	0.00	0.00	
4,000.00	12.18	63.09	3,935.31	282.34	556.24	623.79	0.00	0.00	0.00	
4,100.00	12.18	63.09	4,033.06	291.89	575.05	644.89	0.00	0.00	0.00	
4,200.00	12.18	63.09	4,130.81	301.44	593.85	665.98	0.00	0.00	0.00	
4,300.00	12.18	63.09	4,228.56	310.99	612.66	687.07	0.00	0.00	0.00	
4,400.00	12.18	63.09	4,326.31	320.53	631.47	708.16	0.00	0.00	0.00	
4,500.00	12.18	63.09	4,424.06	330.08	650.28	729.26	0.00	0.00	0.00	
4,600.00	12.18	63.09	4,521.81	339.63	669.09	750.35	0.00	0.00	0.00	
4,700.00	12.18	63.09	4,619.56	349.17	687.90	771.44	0.00	0.00	0.00	
4,800.00	12.18	63.09	4,717.31	358.72	706.70	792.53	0.00	0.00	0.00	
4,900.00	12.18	63.09	4,815.06	368.27	725.51	813.63	0.00	0.00	0.00	
5,000.00	12.18	63.09	4,912.81	377.82	744.32	834.72	0.00	0.00	0.00	
5,049.63	12.18	63.09	4,961.32	382.55	753.65	845.19	0.00	0.00	0.00	

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<b>Well:</b>	Dixon Federal 32D-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	11.42	63.09	5,010.63	387.22	762.84	855.49	1.50	-1.50	0.00
5,200.00	9.92	63.09	5,108.89	395.60	779.35	874.00	1.50	-1.50	0.00
5,300.00	8.42	63.09	5,207.61	402.81	793.56	889.94	1.50	-1.50	0.00
5,400.00	6.92	63.09	5,306.72	408.85	805.46	903.29	1.50	-1.50	0.00
5,500.00	5.42	63.09	5,406.13	413.72	815.05	914.04	1.50	-1.50	0.00
5,600.00	3.92	63.09	5,505.80	417.40	822.31	922.18	1.50	-1.50	0.00
5,700.00	2.42	63.09	5,605.64	419.91	827.24	927.71	1.50	-1.50	0.00
5,800.00	0.92	63.09	5,705.60	421.23	829.84	930.63	1.50	-1.50	0.00
5,861.41	0.00	0.00	5,767.00	421.45	830.28	931.12	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,805.59	421.45	830.28	931.12	0.00	0.00	0.00
6,000.00	0.00	0.00	5,905.59	421.45	830.28	931.12	0.00	0.00	0.00
6,100.00	0.00	0.00	6,005.59	421.45	830.28	931.12	0.00	0.00	0.00
6,200.00	0.00	0.00	6,105.59	421.45	830.28	931.12	0.00	0.00	0.00
6,300.00	0.00	0.00	6,205.59	421.45	830.28	931.12	0.00	0.00	0.00
6,400.00	0.00	0.00	6,305.59	421.45	830.28	931.12	0.00	0.00	0.00
6,500.00	0.00	0.00	6,405.59	421.45	830.28	931.12	0.00	0.00	0.00
6,600.00	0.00	0.00	6,505.59	421.45	830.28	931.12	0.00	0.00	0.00
6,700.00	0.00	0.00	6,605.59	421.45	830.28	931.12	0.00	0.00	0.00
6,800.00	0.00	0.00	6,705.59	421.45	830.28	931.12	0.00	0.00	0.00
6,900.00	0.00	0.00	6,805.59	421.45	830.28	931.12	0.00	0.00	0.00
7,000.00	0.00	0.00	6,905.59	421.45	830.28	931.12	0.00	0.00	0.00
7,100.00	0.00	0.00	7,005.59	421.45	830.28	931.12	0.00	0.00	0.00
7,200.00	0.00	0.00	7,105.59	421.45	830.28	931.12	0.00	0.00	0.00
7,300.00	0.00	0.00	7,205.59	421.45	830.28	931.12	0.00	0.00	0.00
7,400.00	0.00	0.00	7,305.59	421.45	830.28	931.12	0.00	0.00	0.00
7,500.00	0.00	0.00	7,405.59	421.45	830.28	931.12	0.00	0.00	0.00
7,600.00	0.00	0.00	7,505.59	421.45	830.28	931.12	0.00	0.00	0.00
7,700.00	0.00	0.00	7,605.59	421.45	830.28	931.12	0.00	0.00	0.00
7,800.00	0.00	0.00	7,705.59	421.45	830.28	931.12	0.00	0.00	0.00
7,861.41	0.00	0.00	7,767.00	421.45	830.28	931.12	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 (°)
3,894.32	3,832.00	Mesaverde		0.00	
4,850.84	4,767.00	Price Coal		0.00	
5,701.36	5,607.00	Top Gas		0.00	
7,561.41	7,467.00	Rollins		0.00	
7,861.41	7,767.00	TD		0.00	

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

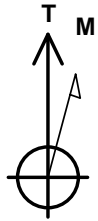
+N/-S	+E/-W	Northing	Ground Level:	0.00		
0.00	0.00	1619402.671	Easting	2397741.007	Latitude	Longitude
				39° 30' 52.599 N	107° 38' 5.6904 W	Slot

## 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	1287.07	12.18	63.09	1283.41	23.34	45.98	2.50	63.09	51.56	
4	5049.63	12.18	63.09	4961.32	382.55	753.65	0.00	0.00	845.19	
5	5861.41	0.00	0.00	5767.00	421.45	830.28	1.50	180.00	931.12	
6	7861.41	0.00	0.00	7767.00	421.45	830.28	0.00	0.00	931.12	Dixon Federal 32D-23-692 (TD)

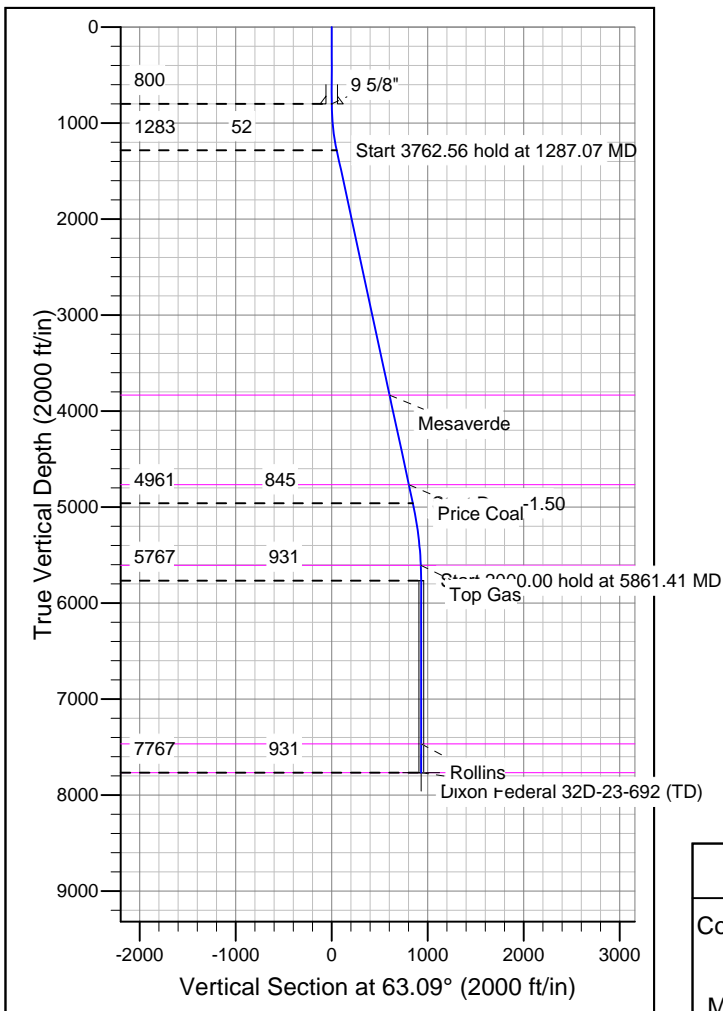
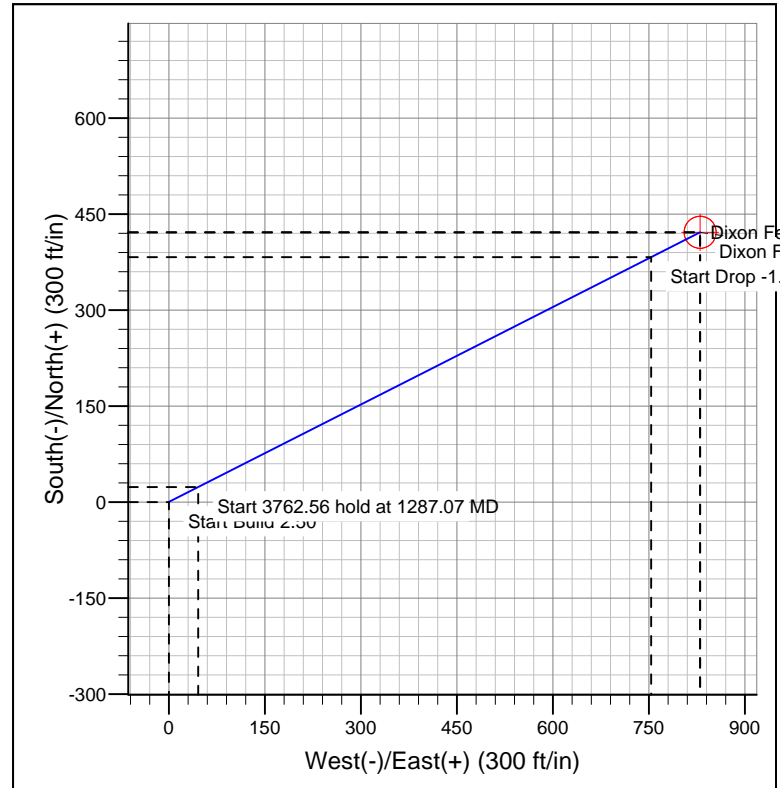
## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Dixon Federal 32D-23-692 (TD)	7767.00	421.45	830.28	Circle (Radius: 25.00)



Azimuths to True North  
Magnetic North: 10.36°

Magnetic Field  
Strength: 52482.4snT  
Dip Angle: 65.87°  
Date: 12/31/2009  
Model: IGRF200510



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3832.00	3894.32	Mesaverde
4767.00	4850.84	Price Coal
5607.00	5701.36	Top Gas
7467.00	7561.41	Rollins
7767.00	7861.41	TD

## REFERENCE INFORMATION

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