

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Dixon SWNW-23-692**

**Dixon Federal 42A-22-692**

**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 42A-22-692
<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 42A-22-692	<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 42A-22-692		
<b>Well Position</b>	<b>+N/-S</b>	-521.97 ft	<b>Northing:</b>
	<b>+E/-W</b>	62.35 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Latitude:</b>
			39° 30' 56.621 N
			<b>Longitude:</b>
			107° 38' 33.1152 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	224.48

<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	
1,627.24	20.68	224.48	1,609.39	-105.37	-103.47	2.50	2.50	0.00	224.48	
4,491.42	20.68	224.48	4,289.01	-827.11	-812.19	0.00	0.00	0.00	0.00	
5,870.15	0.00	0.00	5,638.00	-1,002.73	-984.64	1.50	-1.50	0.00	180.00	
7,870.15	0.00	0.00	7,638.00	-1,002.73	-984.64	0.00	0.00	0.00	0.00	Dixon Federal 42A-

# Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42A-22-692
<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 42A-22-692	<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	224.48	899.97	-1.56	-1.53	2.18	2.50	2.50	0.00	
1,000.00	5.00	224.48	999.75	-6.22	-6.11	8.72	2.50	2.50	0.00	
1,100.00	7.50	224.48	1,099.14	-13.99	-13.74	19.61	2.50	2.50	0.00	
1,200.00	10.00	224.48	1,197.97	-24.84	-24.39	34.82	2.50	2.50	0.00	
1,300.00	12.50	224.48	1,296.04	-38.76	-38.06	54.33	2.50	2.50	0.00	
1,400.00	15.00	224.48	1,393.17	-55.72	-54.71	78.09	2.50	2.50	0.00	
1,500.00	17.50	224.48	1,489.17	-75.68	-74.32	106.07	2.50	2.50	0.00	
1,600.00	20.00	224.48	1,583.85	-98.62	-96.84	138.21	2.50	2.50	0.00	
1,627.24	20.68	224.48	1,609.39	-105.37	-103.47	147.68	2.50	2.50	0.00	
1,700.00	20.68	224.48	1,677.47	-123.71	-121.48	173.38	0.00	0.00	0.00	
1,800.00	20.68	224.48	1,771.02	-148.91	-146.22	208.70	0.00	0.00	0.00	
1,900.00	20.68	224.48	1,864.58	-174.11	-170.96	244.01	0.00	0.00	0.00	
2,000.00	20.68	224.48	1,958.13	-199.30	-195.71	279.33	0.00	0.00	0.00	
2,100.00	20.68	224.48	2,051.69	-224.50	-220.45	314.64	0.00	0.00	0.00	
2,200.00	20.68	224.48	2,145.25	-249.70	-245.20	349.96	0.00	0.00	0.00	
2,300.00	20.68	224.48	2,238.80	-274.90	-269.94	385.28	0.00	0.00	0.00	
2,400.00	20.68	224.48	2,332.36	-300.10	-294.69	420.59	0.00	0.00	0.00	
2,500.00	20.68	224.48	2,425.91	-325.30	-319.43	455.91	0.00	0.00	0.00	
2,600.00	20.68	224.48	2,519.47	-350.50	-344.17	491.23	0.00	0.00	0.00	
2,700.00	20.68	224.48	2,613.03	-375.69	-368.92	526.54	0.00	0.00	0.00	
2,800.00	20.68	224.48	2,706.58	-400.89	-393.66	561.86	0.00	0.00	0.00	
2,900.00	20.68	224.48	2,800.14	-426.09	-418.41	597.18	0.00	0.00	0.00	
3,000.00	20.68	224.48	2,893.70	-451.29	-443.15	632.49	0.00	0.00	0.00	
3,100.00	20.68	224.48	2,987.25	-476.49	-467.89	667.81	0.00	0.00	0.00	
3,200.00	20.68	224.48	3,080.81	-501.69	-492.64	703.12	0.00	0.00	0.00	
3,300.00	20.68	224.48	3,174.36	-526.89	-517.38	738.44	0.00	0.00	0.00	
3,400.00	20.68	224.48	3,267.92	-552.09	-542.13	773.76	0.00	0.00	0.00	
3,500.00	20.68	224.48	3,361.48	-577.28	-566.87	809.07	0.00	0.00	0.00	
3,600.00	20.68	224.48	3,455.03	-602.48	-591.62	844.39	0.00	0.00	0.00	
3,700.00	20.68	224.48	3,548.59	-627.68	-616.36	879.71	0.00	0.00	0.00	
3,800.00	20.68	224.48	3,642.14	-652.88	-641.10	915.02	0.00	0.00	0.00	
3,900.00	20.68	224.48	3,735.70	-678.08	-665.85	950.34	0.00	0.00	0.00	
4,000.00	20.68	224.48	3,829.26	-703.28	-690.59	985.66	0.00	0.00	0.00	
4,100.00	20.68	224.48	3,922.81	-728.48	-715.34	1,020.97	0.00	0.00	0.00	
4,200.00	20.68	224.48	4,016.37	-753.68	-740.08	1,056.29	0.00	0.00	0.00	
4,300.00	20.68	224.48	4,109.93	-778.87	-764.82	1,091.60	0.00	0.00	0.00	
4,400.00	20.68	224.48	4,203.48	-804.07	-789.57	1,126.92	0.00	0.00	0.00	
4,491.42	20.68	224.48	4,289.01	-827.11	-812.19	1,159.21	0.00	0.00	0.00	
4,500.00	20.55	224.48	4,297.04	-829.26	-814.31	1,162.23	1.50	-1.50	0.00	
4,600.00	19.05	224.48	4,391.12	-853.44	-838.04	1,196.11	1.50	-1.50	0.00	
4,700.00	17.55	224.48	4,486.06	-875.84	-860.04	1,227.51	1.50	-1.50	0.00	
4,800.00	16.05	224.48	4,581.79	-896.47	-880.30	1,256.41	1.50	-1.50	0.00	
4,900.00	14.55	224.48	4,678.24	-915.30	-898.79	1,282.80	1.50	-1.50	0.00	
5,000.00	13.05	224.48	4,775.35	-932.32	-915.50	1,306.66	1.50	-1.50	0.00	

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<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 42A-22-692	<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	11.55	224.48	4,873.05	-947.52	-930.43	1,327.97	1.50	-1.50	0.00
5,200.00	10.05	224.48	4,971.28	-960.89	-943.56	1,346.71	1.50	-1.50	0.00
5,300.00	8.55	224.48	5,069.96	-972.43	-954.89	1,362.87	1.50	-1.50	0.00
5,400.00	7.05	224.48	5,169.03	-982.11	-964.40	1,376.45	1.50	-1.50	0.00
5,500.00	5.55	224.48	5,268.43	-989.94	-972.09	1,387.42	1.50	-1.50	0.00
5,600.00	4.05	224.48	5,368.07	-995.92	-977.95	1,395.80	1.50	-1.50	0.00
5,700.00	2.55	224.48	5,467.90	-1,000.03	-981.99	1,401.56	1.50	-1.50	0.00
5,800.00	1.05	224.48	5,567.85	-1,002.27	-984.19	1,404.70	1.50	-1.50	0.00
5,870.15	0.00	0.00	5,638.00	-1,002.73	-984.64	1,405.35	1.50	-1.50	0.00
5,900.00	0.00	0.00	5,667.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,000.00	0.00	0.00	5,767.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,100.00	0.00	0.00	5,867.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,200.00	0.00	0.00	5,967.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,300.00	0.00	0.00	6,067.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,400.00	0.00	0.00	6,167.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,500.00	0.00	0.00	6,267.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,600.00	0.00	0.00	6,367.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,700.00	0.00	0.00	6,467.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,800.00	0.00	0.00	6,567.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
6,900.00	0.00	0.00	6,667.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,000.00	0.00	0.00	6,767.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,100.00	0.00	0.00	6,867.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,200.00	0.00	0.00	6,967.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,300.00	0.00	0.00	7,067.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,400.00	0.00	0.00	7,167.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,500.00	0.00	0.00	7,267.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,600.00	0.00	0.00	7,367.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,700.00	0.00	0.00	7,467.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,800.00	0.00	0.00	7,567.85	-1,002.73	-984.64	1,405.35	0.00	0.00	0.00
7,870.15	0.00	0.00	7,638.00	-1,002.73	-984.64	1,405.35	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 (°)
3,859.70	3,698.00	Mesaverde		0.00	
4,837.62	4,618.00	Price Coal		0.00	
5,569.84	5,338.00	Top Gas		0.00	
7,570.15	7,338.00	Rollins		0.00	
7,870.15	7,638.00	TD		0.00	

## WELL DETAILS: Dixon Federal 42A-22-692

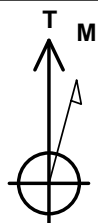
+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.00	0.00	1619860.009	2395601.963	39° 30' 56.621 N	107° 38' 33.1152 W		

## 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	1627.24	20.68	224.48	1609.39	-105.37	-103.47	2.50	224.48	147.68	
4	4491.42	20.68	224.48	4289.01	-827.11	-812.19	0.00	0.00	1159.21	
5	5870.15	0.00	0.00	5638.00	-1002.73	-984.64	1.50	180.00	1405.35	
6	7870.15	0.00	0.00	7638.00	-1002.73	-984.64	0.00	0.00	1405.35	Dixon Federal 42A-22-692 (TD)

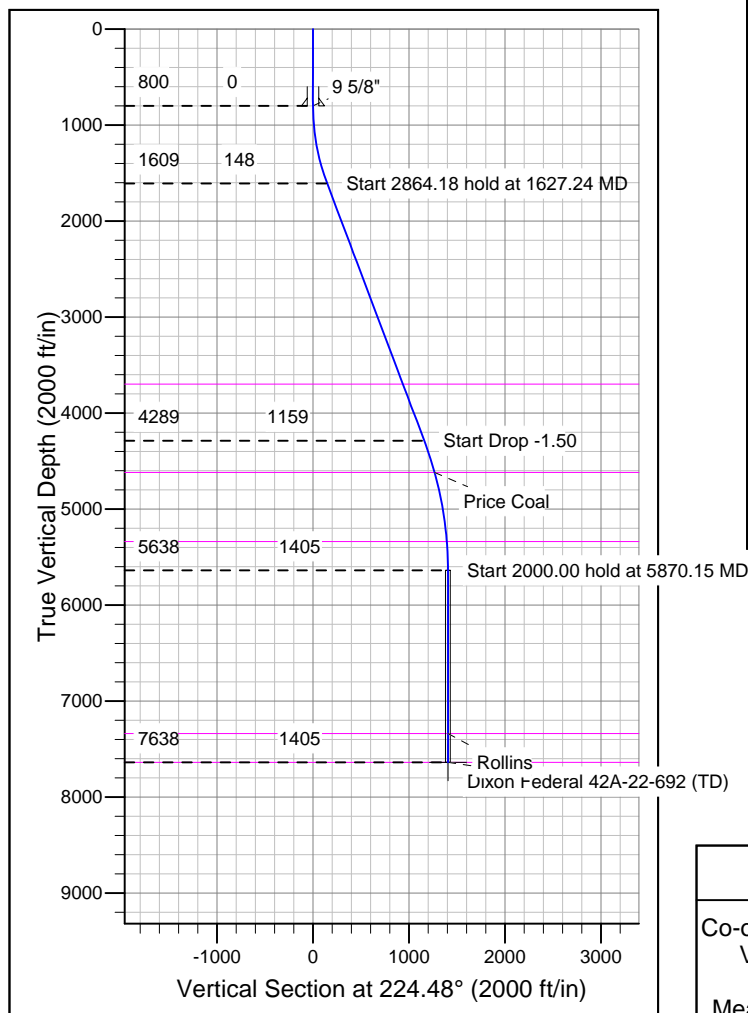
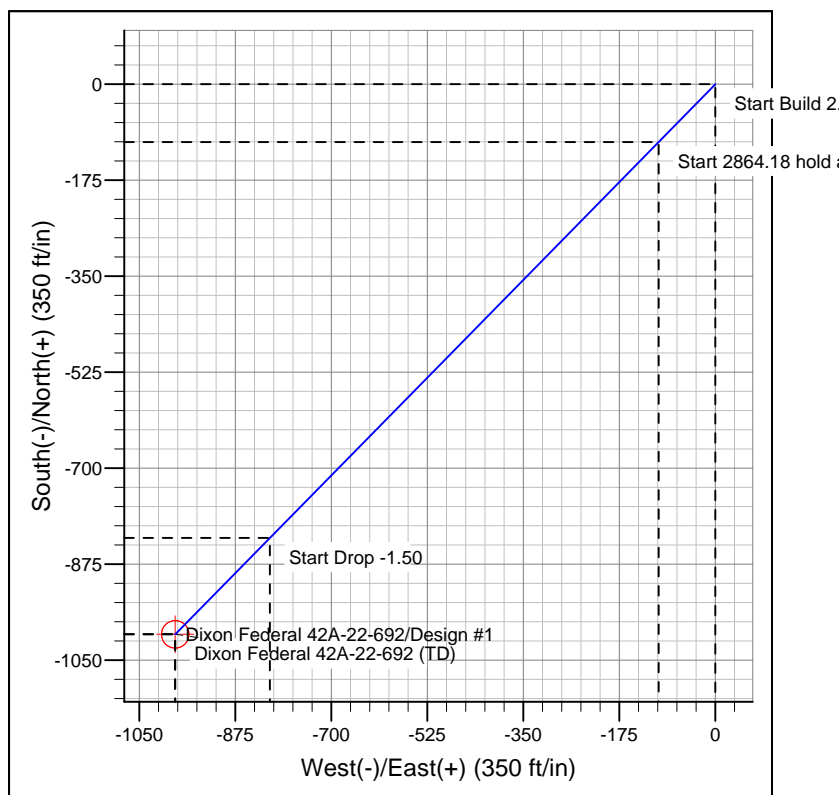
## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Dixon Federal 42A-22-692 (TD)	-1002.73	-984.64	-984.64	Circle (Radius: 25.00)



Azimuths to True North  
Magnetic North: 10.36°

Magnetic Field  
Strength: 52483.2snT  
Dip Angle: 65.87°  
Date: 12/31/2009  
Model: IGRF200510



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3698.00	3859.70	Mesaverde
4618.00	4837.62	Price Coal
5338.00	5569.84	Top Gas
7338.00	7570.15	Rollins
7638.00	7870.15	TD

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Dixon Federal 42A-22-692, True North  
Vertical (TVD) Reference: WELL @ 5815.00ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: WELL @ 5815.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature