



**Bill Barrett Corporation**

## **Bill Barrett Corp. (II)**

**Garfield Co., CO (NAD83)**

**Dixon SWNW-23-692**

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

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**30 July, 2012**





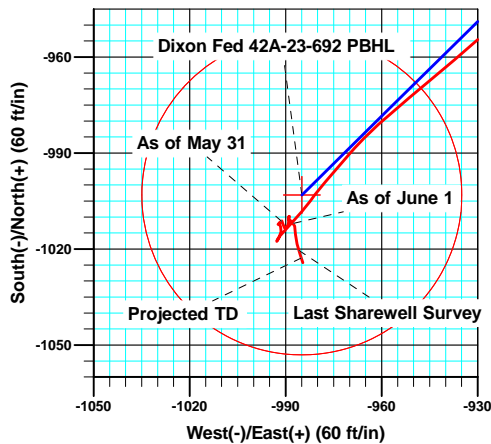
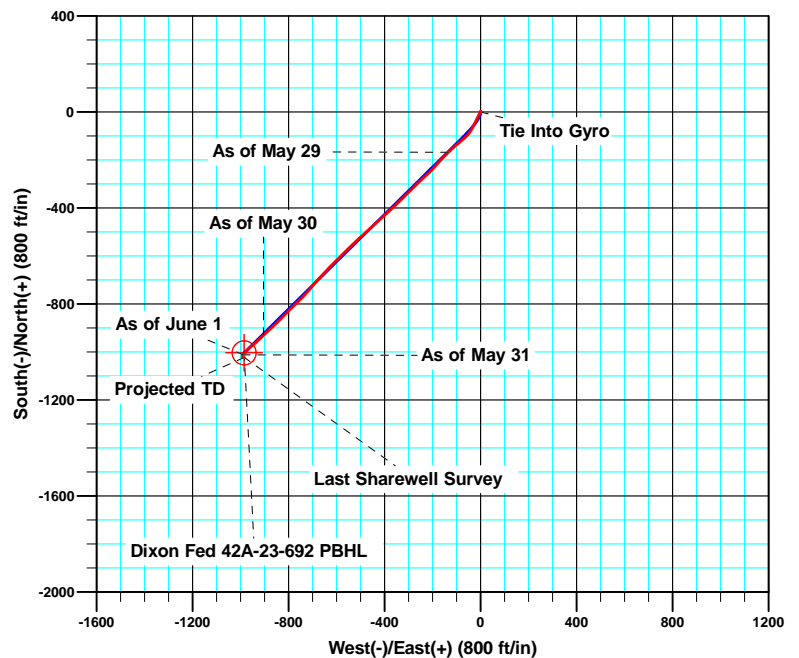
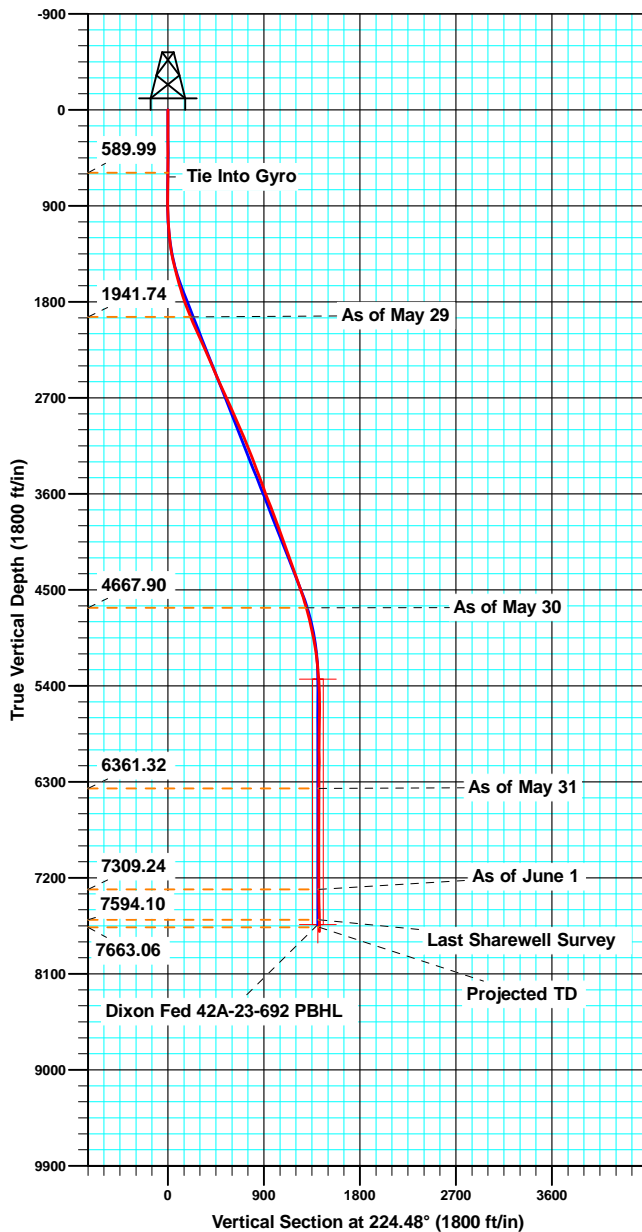
Bill Barrett Corporation

## Dixon Federal 42A-22-692

US State Plane 1983 North American Datum 1983 Colorado Central Zone

+N/-S +E/-W Northing Easting Latitude Longitude  
0.00 0.00 1619860.01 2395601.68 39° 30' 56.62 N 107° 38' 33.12 W

GL @ 5815.00  
KB @ 5838.00ft



MAzimuths to True North  
Magnetic North: 10.09°  
Magnetic Field  
Strength: 52221.3snT  
Dip Angle: 65.80°  
Date: 04/23/2012  
Model: IGRF2010

### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
629.99	630.00	0.390	319.01	0.32	1.39	-1.21	4.23	Tie Into Gyro
1978.52	2012.00	23.300	223.60	-178.64	-145.12	229.14	241.29	As of May 29
4706.45	4948.00	15.100	224.40	-937.62	-912.06	1308.03	1321.01	As of May 30
6401.32	6653.00	0.300	52.80	-1011.21	-991.16	1415.96	1445.56	As of May 31
7349.23	7601.00	1.600	168.30	-1012.89	-987.14	1414.34	1458.54	As of June 1
7634.08	7886.00	2.100	161.40	-1021.85	-985.42	1419.53	1467.74	Last Sharewell Survey
7703.03	7955.00	2.100	161.40	-1024.24	-984.61	1420.67	1470.26	Projected TD

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42A-22-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB @ 5838.00ft
<b>Site:</b>	Dixon SWNW-23-692	<b>MD Reference:</b>	KB @ 5838.00ft
<b>Well:</b>	Dixon Federal 42A-22-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	CompassVM

<b>Project</b>	Garfield Co., CO (NAD83)		
<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 SWNW-23-692			
Site Position:		Northing:	1,619,869.69 usft	Latitude:	39° 30' 56.71 N
From:	Lat/Long	Easting:	2,395,577.93 usft	Longitude:	107° 38' 33.42 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.35 °

Well	Dixon Federal 42A-22-692					
Well Position	+N/-S	0.00 ft	Northing:	1,619,860.01 usft	Latitude:	39° 30' 56.62 N
	+E/-W	0.00 ft	Easting:	2,395,601.68 usft	Longitude:	107° 38' 33.12 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,815.00 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>
	IGRF2010	04/23/12	10.08	65.80	52,221

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	-40.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	-40.00	0.00	0.00	224.48	

<b>Survey Program</b>	<b>Date</b>	07/30/12			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
60.00	630.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
879.00	7,955.00	MWD (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</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>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
60.00	0.190	111.42	60.00	-0.04	0.09	-0.04	0.32	0.32	0.00	
160.00	0.380	328.12	160.00	0.18	0.07	-0.18	0.54	0.19	-143.30	
260.00	0.620	76.78	260.00	0.59	0.42	-0.72	0.82	0.24	108.66	
360.00	0.480	190.95	359.99	0.30	0.87	-0.83	0.93	-0.14	114.17	
460.00	0.190	350.99	459.99	0.06	0.77	-0.58	0.66	-0.29	160.04	
560.00	0.550	95.57	559.99	0.17	1.22	-0.98	0.63	0.36	104.58	
630.00	0.390	319.01	629.99	0.32	1.39	-1.21	1.25	-0.23	-195.09	
<b>Tie Into Gyro</b>										
879.00	0.300	123.70	878.99	0.60	1.38	-1.39	0.27	-0.04	66.14	

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42A-22-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB @ 5838.00ft
<b>Site:</b>	Dixon SWNW-23-692	<b>MD Reference:</b>	KB @ 5838.00ft
<b>Well:</b>	Dixon Federal 42A-22-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	CompassVM

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)
971.00	0.700	243.10	970.99	0.21	1.08	-0.91	0.96	0.43	129.78
1,065.00	3.600	222.50	1,064.91	-2.23	-1.43	2.59	3.14	3.09	-21.91
1,160.00	5.700	211.90	1,159.60	-8.43	-5.93	10.17	2.38	2.21	-11.16
1,255.00	8.100	207.70	1,253.90	-18.36	-11.54	21.19	2.58	2.53	-4.42
1,350.00	10.700	199.10	1,347.62	-32.63	-17.54	35.57	3.10	2.74	-9.05
1,445.00	13.900	205.80	1,440.43	-51.24	-25.39	54.35	3.68	3.37	7.05
1,538.00	15.600	212.40	1,530.37	-71.86	-36.96	77.17	2.57	1.83	7.10
1,632.00	15.600	218.90	1,620.92	-92.37	-51.67	102.11	1.86	0.00	6.91
1,727.00	16.900	229.60	1,712.14	-111.26	-70.21	128.58	3.43	1.37	11.26
1,822.00	19.500	230.00	1,802.38	-130.41	-92.87	158.12	2.74	2.74	0.42
1,917.00	22.600	228.00	1,891.03	-152.82	-118.59	192.13	3.35	3.26	-2.11
2,012.00	23.300	223.60	1,978.52	-178.64	-145.12	229.14	1.95	0.74	-4.63
<b>As of May 29</b>									
2,107.00	24.300	222.30	2,065.44	-206.71	-171.23	267.46	1.19	1.05	-1.37
2,201.00	23.400	223.00	2,151.41	-234.66	-196.98	305.45	1.00	-0.96	0.74
2,296.00	23.100	226.80	2,238.70	-261.22	-223.43	342.93	1.61	-0.32	4.00
2,391.00	23.600	226.80	2,325.92	-286.99	-250.88	380.55	0.53	0.53	0.00
2,485.00	24.200	226.10	2,411.86	-313.24	-278.48	418.61	0.71	0.64	-0.74
2,580.00	23.600	225.20	2,498.71	-340.14	-306.00	457.09	0.74	-0.63	-0.95
2,674.00	24.600	224.90	2,584.52	-367.25	-333.16	495.47	1.07	1.06	-0.32
2,768.00	24.800	226.50	2,669.92	-394.68	-361.27	534.74	0.74	0.21	1.70
2,863.00	23.600	227.70	2,756.57	-421.20	-389.79	573.64	1.37	-1.26	1.26
2,958.00	24.100	228.00	2,843.46	-446.98	-418.27	611.98	0.54	0.53	0.32
3,053.00	24.800	227.10	2,929.94	-473.52	-447.28	651.25	0.83	0.74	-0.95
3,148.00	23.200	228.40	3,016.72	-499.50	-475.87	689.82	1.77	-1.68	1.37
3,243.00	21.600	227.10	3,104.55	-523.83	-502.68	725.96	1.76	-1.68	-1.37
3,337.00	21.500	226.80	3,191.98	-547.40	-527.91	760.45	0.16	-0.11	-0.32
3,432.00	21.400	226.00	3,280.40	-571.36	-553.07	795.17	0.33	-0.11	-0.84
3,527.00	21.000	226.10	3,368.97	-595.20	-577.80	829.52	0.42	-0.42	0.11
3,621.00	21.000	224.50	3,456.73	-618.90	-601.74	863.20	0.61	0.00	-1.70
3,716.00	19.700	223.70	3,545.80	-642.61	-624.74	896.23	1.40	-1.37	-0.84
3,810.00	21.200	223.30	3,633.87	-666.44	-647.34	929.07	1.60	1.60	-0.43
3,905.00	21.500	223.10	3,722.35	-691.65	-671.01	963.64	0.32	0.32	-0.21
4,000.00	20.500	220.30	3,811.04	-717.05	-693.67	997.64	1.49	-1.05	-2.95
4,095.00	20.000	220.20	3,900.17	-742.15	-714.92	1,030.43	0.53	-0.53	-0.11
4,190.00	19.800	223.90	3,989.50	-766.15	-736.56	1,062.72	1.34	-0.21	3.89
4,285.00	19.400	225.30	4,079.00	-788.84	-758.93	1,094.59	0.65	-0.42	1.47
4,380.00	19.900	226.10	4,168.46	-811.15	-781.80	1,126.53	0.60	0.53	0.84
4,475.00	20.700	225.90	4,257.56	-834.05	-805.50	1,159.47	0.85	0.84	-0.21
4,570.00	19.200	222.80	4,346.86	-857.19	-828.18	1,191.88	1.93	-1.58	-3.26
4,665.00	19.200	226.70	4,436.58	-879.37	-850.16	1,223.10	1.35	0.00	4.11
4,759.00	18.400	227.30	4,525.57	-900.03	-872.31	1,253.36	0.88	-0.85	0.64
4,854.00	16.900	227.20	4,616.09	-919.58	-893.46	1,282.13	1.58	-1.58	-0.11

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42A-22-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB @ 5838.00ft
<b>Site:</b>	Dixon SWNW-23-692	<b>MD Reference:</b>	KB @ 5838.00ft
<b>Well:</b>	Dixon Federal 42A-22-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	CompassVM

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)	
4,948.00	15.100	224.40	4,706.45	-937.62	-912.06	1,308.03	2.08	-1.91	-2.98	
<b>As of May 30</b>										
5,044.00	13.400	228.80	4,799.49	-953.88	-929.18	1,331.63	2.10	-1.77	4.58	
5,138.00	12.200	230.30	4,891.16	-967.40	-945.02	1,352.37	1.32	-1.28	1.60	
5,233.00	10.300	228.80	4,984.33	-979.41	-959.13	1,370.83	2.02	-2.00	-1.58	
5,328.00	7.900	220.70	5,078.13	-989.95	-969.78	1,385.81	2.86	-2.53	-8.53	
5,422.00	6.800	220.30	5,171.35	-999.09	-977.59	1,397.81	1.17	-1.17	-0.43	
5,517.00	5.100	216.80	5,265.84	-1,006.76	-983.76	1,407.60	1.83	-1.79	-3.68	
5,612.00	4.000	225.20	5,360.54	-1,012.48	-988.64	1,415.10	1.35	-1.16	8.84	
5,707.00	1.800	217.10	5,455.41	-1,016.01	-991.89	1,419.89	2.35	-2.32	-8.53	
5,802.00	0.500	175.90	5,550.39	-1,017.61	-992.76	1,421.65	1.54	-1.37	-43.37	
5,897.00	1.700	23.50	5,645.38	-1,016.73	-992.17	1,420.61	2.27	1.26	-160.42	
5,992.00	1.100	14.10	5,740.35	-1,014.55	-991.39	1,418.50	0.67	-0.63	-9.89	
6,087.00	0.900	326.70	5,835.34	-1,013.05	-991.57	1,417.56	0.87	-0.21	-49.89	
6,181.00	0.300	11.20	5,929.33	-1,012.19	-991.93	1,417.20	0.76	-0.64	47.34	
6,273.00	0.400	202.30	6,021.33	-1,012.25	-992.01	1,417.29	0.76	0.11	-183.59	
6,368.00	0.400	308.80	6,116.33	-1,012.35	-992.39	1,417.63	0.67	0.00	112.11	
6,463.00	1.000	61.80	6,211.33	-1,011.75	-991.92	1,416.87	1.28	0.63	118.95	
6,558.00	0.100	268.50	6,306.32	-1,011.36	-991.27	1,416.14	1.15	-0.95	-161.37	
6,653.00	0.300	52.80	6,401.32	-1,011.21	-991.16	1,415.96	0.41	0.21	151.89	
<b>As of May 31</b>										
6,747.00	1.300	173.90	6,495.31	-1,012.12	-990.85	1,416.39	1.57	1.06	128.83	
6,842.00	0.700	127.70	6,590.30	-1,013.55	-990.27	1,417.01	1.01	-0.63	-48.63	
6,937.00	1.700	24.30	6,685.29	-1,012.62	-989.23	1,415.61	2.09	1.05	-108.84	
7,032.00	0.900	343.70	6,780.26	-1,010.62	-988.86	1,413.93	1.24	-0.84	-42.74	
7,127.00	0.200	62.10	6,875.26	-1,009.82	-988.93	1,413.41	0.93	-0.74	82.53	
7,222.00	0.100	255.50	6,970.26	-1,009.77	-988.86	1,413.32	0.31	-0.11	-175.37	
7,317.00	0.700	204.10	7,065.26	-1,010.32	-989.18	1,413.93	0.68	0.63	-54.11	
7,412.00	0.400	108.10	7,160.25	-1,010.95	-989.10	1,414.33	0.89	-0.32	-101.05	
7,507.00	0.900	111.90	7,255.25	-1,011.33	-988.09	1,413.90	0.53	0.53	4.00	
7,601.00	1.600	168.30	7,349.23	-1,012.89	-987.14	1,414.34	1.42	0.74	60.00	
<b>As of June 1</b>										
7,696.00	1.500	181.40	7,444.19	-1,015.43	-986.90	1,415.99	0.39	-0.11	13.79	
7,791.00	2.200	164.80	7,539.14	-1,018.44	-986.45	1,417.82	0.92	0.74	-17.47	
7,886.00	2.100	161.40	7,634.08	-1,021.85	-985.42	1,419.53	0.17	-0.11	-3.58	
<b>Last Sharewell Survey</b>										
7,955.00	2.100	161.40	7,703.03	-1,024.24	-984.61	1,420.67	0.00	0.00	0.00	
<b>Projected TD</b>										

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42A-22-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	KB @ 5838.00ft
<b>Site:</b>	Dixon SWNW-23-692	<b>MD Reference:</b>	KB @ 5838.00ft
<b>Well:</b>	Dixon Federal 42A-22-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	CompassVM

**Design Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
630.00	629.99	0.32	1.39	Tie Into Gyro
2,012.00	1,978.52	-178.64	-145.12	As of May 29
4,948.00	4,706.45	-937.62	-912.06	As of May 30
6,653.00	6,401.32	-1,011.21	-991.16	As of May 31
7,601.00	7,349.23	-1,012.89	-987.14	As of June 1
7,886.00	7,634.08	-1,021.85	-985.42	Last Sharewell Survey
7,955.00	7,703.03	-1,024.24	-984.61	Projected TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_