

# **Bill Barrett Corp.**

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

**Dixon SWNW-23-692**

**Dixon Federal 42B-22-692**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**30 May, 2012**



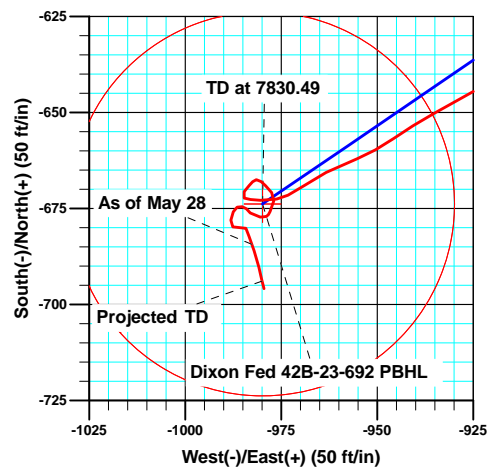
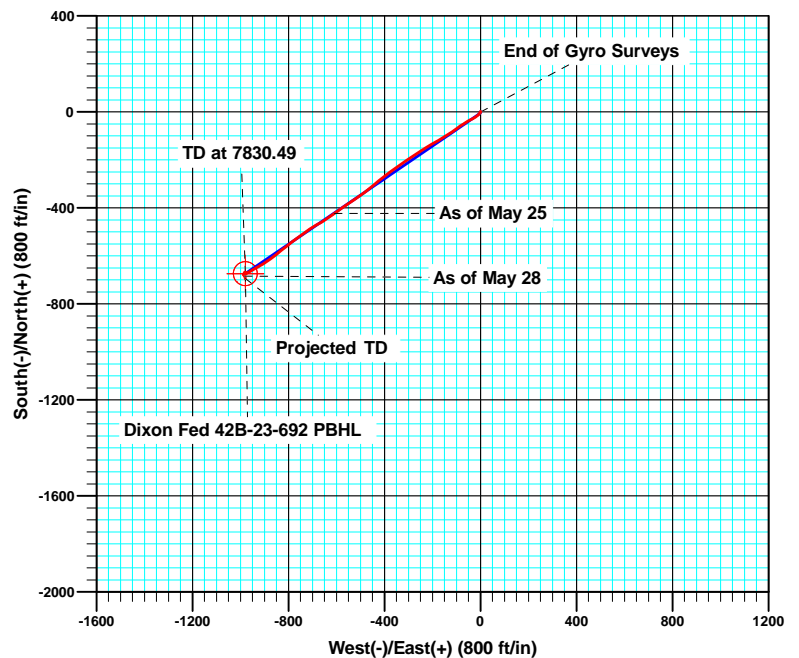
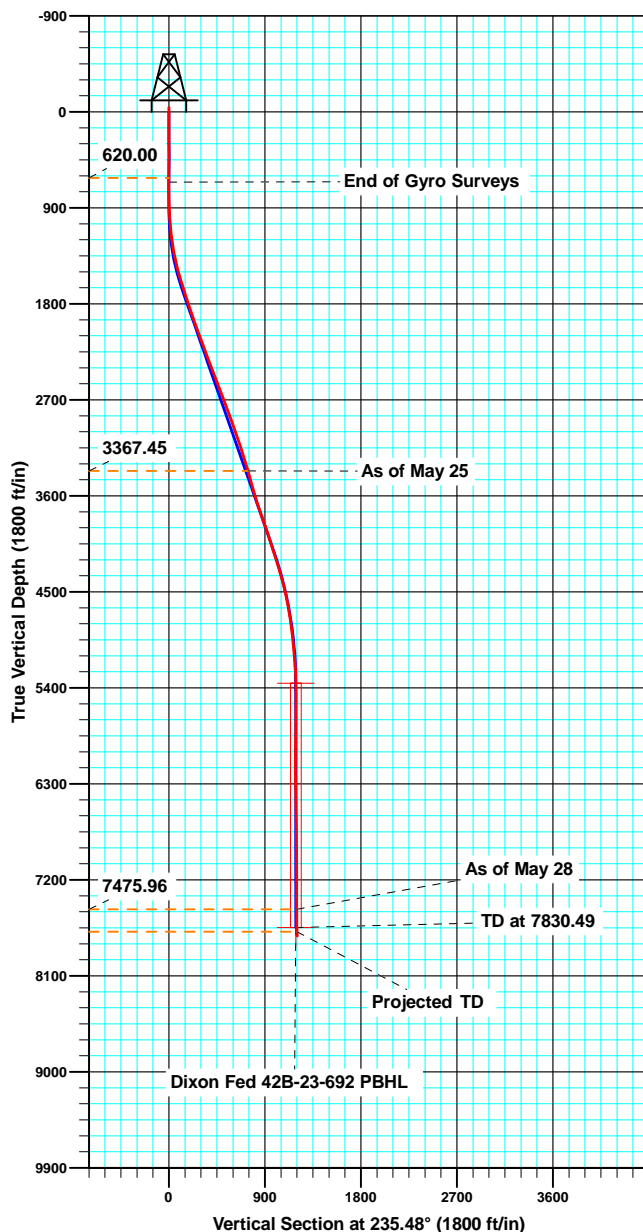
Bill Barrett Corporation

## Dixon Federal 42B-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 1619859.83 2395593.77 39° 30' 56.62 N 107° 38' 33.22 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: 4/23/2012  
Model: IGRF2010

### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
660.00	660.00	0.350	153.53	-0.52	0.53	-0.14	1.61	End of Gyro Surveys
3406.00	3527.00	15.200	233.70	-429.12	-617.76	752.17	756.42	As of May 25
7515.92	7696.00	2.700	159.90	-685.99	-982.01	1197.85	1244.74	As of May 28
7726.67	7907.00	2.900	166.40	-695.89	-979.50	1201.39	1254.97	Projected TD

# Sharewell

## Survey Report

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42B-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 42B-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 42B-22-692					
Well Position	+N/-S	0.00 ft	Northing:	1,619,859.82 usft	Latitude:	39° 30' 56.62 N
	+E/-W	0.00 ft	Easting:	2,395,593.78 usft	Longitude:	107° 38' 33.22 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	4/23/2012	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	235.48	

<b>Survey Program</b>	<b>Date</b>	5/30/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
60.00	660.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
878.00	7,907.00	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>	
-40.00	0.000	0.00	-40.00	0.00	0.00	0.00	0.00	0.00	0.00	
60.00	0.090	326.21	60.00	0.07	-0.04	0.00	0.09	0.09	0.00	
160.00	0.140	87.69	160.00	0.14	0.03	-0.11	0.20	0.05	121.48	
260.00	0.190	207.12	260.00	-0.01	0.08	-0.06	0.29	0.05	119.43	
360.00	0.120	88.76	360.00	-0.15	0.11	0.00	0.27	-0.07	-118.36	
460.00	0.160	110.76	460.00	-0.20	0.35	-0.17	0.07	0.04	22.00	
560.00	0.050	270.13	560.00	-0.25	0.43	-0.22	0.21	-0.11	159.37	
660.00	0.350	153.53	660.00	-0.52	0.53	-0.14	0.38	0.30	-116.60	
878.00	1.100	244.80	877.98	-2.01	-1.07	2.02	0.53	0.34	41.87	
970.00	3.300	206.90	969.91	-4.75	-3.07	5.22	2.74	2.39	-41.20	

# Sharewell

## Survey Report

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42B-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 42B-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)
1,065.00	5.800	224.40	1,064.61	-10.62	-7.67	12.33	2.98	2.63	18.42
1,160.00	6.600	230.60	1,159.06	-17.51	-15.24	22.48	1.10	0.84	6.53
1,255.00	8.700	241.00	1,253.21	-24.46	-25.75	35.08	2.64	2.21	10.95
1,350.00	11.700	244.30	1,346.70	-32.12	-40.71	51.75	3.22	3.16	3.47
1,445.00	13.600	237.80	1,439.39	-42.25	-58.85	72.43	2.50	2.00	-6.84
1,537.00	15.800	236.20	1,528.38	-54.99	-78.41	95.77	2.43	2.39	-1.74
1,632.00	17.800	234.90	1,619.32	-70.53	-101.04	123.22	2.14	2.11	-1.37
1,726.00	17.300	234.90	1,708.94	-86.83	-124.23	151.56	0.53	-0.53	0.00
1,821.00	18.700	238.90	1,799.29	-102.82	-148.83	180.89	1.97	1.47	4.21
1,916.00	19.300	240.30	1,889.12	-118.47	-175.51	211.74	0.79	0.63	1.47
2,011.00	19.200	239.20	1,978.81	-134.24	-202.56	242.97	0.40	-0.11	-1.16
2,106.00	20.000	237.90	2,068.30	-150.88	-229.74	274.79	0.96	0.84	-1.37
2,201.00	20.300	237.60	2,157.49	-168.34	-257.42	307.49	0.33	0.32	-0.32
2,296.00	20.600	236.30	2,246.50	-186.44	-285.24	340.67	0.57	0.32	-1.37
2,390.00	20.800	235.60	2,334.43	-205.05	-312.77	373.90	0.34	0.21	-0.74
2,485.00	20.700	234.90	2,423.27	-224.23	-340.42	407.55	0.28	-0.11	-0.74
2,580.00	20.500	233.70	2,512.20	-243.73	-367.57	440.97	0.49	-0.21	-1.26
2,674.00	21.100	232.30	2,600.07	-263.82	-394.22	474.32	0.83	0.64	-1.49
2,768.00	21.900	231.30	2,687.53	-285.13	-421.29	508.69	0.94	0.85	-1.06
2,863.00	20.300	231.20	2,776.16	-306.54	-447.96	542.80	1.68	-1.68	-0.11
2,957.00	19.600	229.90	2,864.52	-326.91	-472.73	574.75	0.88	-0.74	-1.38
3,052.00	19.200	234.30	2,954.13	-346.29	-497.60	606.23	1.59	-0.42	4.63
3,147.00	19.000	236.50	3,043.90	-363.94	-523.18	637.31	0.79	-0.21	2.32
3,242.00	19.500	235.80	3,133.59	-381.39	-549.19	668.63	0.58	0.53	-0.74
3,337.00	17.400	235.30	3,223.70	-398.39	-573.99	698.69	2.22	-2.21	-0.53
3,432.00	16.400	235.30	3,314.59	-414.11	-596.69	726.31	1.05	-1.05	0.00
3,527.00	15.200	233.70	3,406.00	-429.12	-617.76	752.17	1.34	-1.26	-1.68
3,621.00	15.700	235.30	3,496.61	-443.66	-638.15	777.20	0.70	0.53	1.70
3,716.00	16.800	239.60	3,587.81	-457.92	-660.56	803.75	1.72	1.16	4.53
3,810.00	18.000	240.90	3,677.51	-471.86	-684.96	831.76	1.34	1.28	1.38
3,905.00	18.500	236.20	3,767.74	-487.38	-710.32	861.45	1.64	0.53	-4.95
4,000.00	19.800	233.60	3,857.48	-505.32	-735.79	892.60	1.64	1.37	-2.74
4,095.00	19.200	233.80	3,947.03	-524.09	-761.35	924.30	0.64	-0.63	0.21
4,190.00	18.100	232.80	4,037.04	-542.24	-785.71	954.65	1.21	-1.16	-1.05
4,285.00	17.400	231.30	4,127.52	-560.04	-808.55	983.56	0.88	-0.74	-1.58
4,379.00	17.100	231.80	4,217.29	-577.38	-830.38	1,011.37	0.36	-0.32	0.53
4,475.00	16.300	230.80	4,309.24	-594.62	-851.91	1,038.88	0.89	-0.83	-1.04
4,569.00	14.700	233.40	4,399.82	-610.07	-871.71	1,063.95	1.86	-1.70	2.77
4,664.00	13.200	237.60	4,492.02	-623.07	-890.55	1,086.84	1.90	-1.58	4.42
4,759.00	12.000	237.00	4,584.73	-634.26	-907.99	1,107.55	1.27	-1.26	-0.63
4,853.00	9.500	240.40	4,677.07	-643.42	-922.93	1,125.05	2.74	-2.66	3.62
4,948.00	7.700	241.40	4,771.00	-650.34	-935.34	1,139.19	1.90	-1.89	1.05
5,043.00	7.100	235.00	4,865.21	-656.75	-945.73	1,151.39	1.07	-0.63	-6.74

# Sharewell

## Survey Report

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dixon Federal 42B-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 42B-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)	
5,138.00	5.900	247.80	4,959.60	-661.96	-955.07	1,162.04	1.97	-1.26	13.47	
5,232.00	5.100	243.60	5,053.17	-665.65	-963.28	1,170.89	0.95	-0.85	-4.47	
5,327.00	4.600	234.50	5,147.83	-669.74	-970.16	1,178.88	0.96	-0.53	-9.58	
5,422.00	3.500	258.10	5,242.60	-672.55	-976.10	1,185.37	2.08	-1.16	24.84	
5,517.00	1.800	280.10	5,337.50	-672.88	-980.41	1,189.11	2.05	-1.79	23.16	
5,612.00	1.300	266.70	5,432.46	-672.68	-982.96	1,191.09	0.65	-0.53	-14.11	
5,707.00	0.900	307.70	5,527.44	-672.29	-984.62	1,192.24	0.90	-0.42	43.16	
5,802.00	1.600	26.40	5,622.43	-670.64	-984.62	1,191.31	1.76	0.74	82.84	
5,897.00	1.000	56.60	5,717.40	-669.00	-983.34	1,189.32	0.94	-0.63	31.79	
5,992.00	0.700	23.40	5,812.39	-668.01	-982.42	1,188.00	0.59	-0.32	-34.95	
6,086.00	0.900	88.90	5,906.39	-667.47	-981.45	1,186.90	0.94	0.21	69.68	
6,180.00	0.900	136.80	6,000.37	-667.99	-980.21	1,186.17	0.78	0.00	50.96	
6,273.00	1.100	128.60	6,093.36	-669.08	-979.01	1,185.80	0.26	0.22	-8.82	
6,368.00	1.800	145.70	6,188.33	-670.89	-977.46	1,185.54	0.86	0.74	18.00	
6,462.00	1.200	198.40	6,282.30	-673.04	-976.94	1,186.33	1.53	-0.64	56.06	
6,557.00	2.300	198.70	6,377.26	-675.79	-977.86	1,188.65	1.16	1.16	0.32	
6,652.00	2.400	280.70	6,472.20	-677.23	-980.43	1,191.58	3.25	0.11	86.32	
6,747.00	1.100	316.00	6,567.15	-676.20	-983.02	1,193.13	1.72	-1.37	37.16	
6,842.00	0.700	320.00	6,662.14	-675.10	-984.02	1,193.34	0.43	-0.42	4.21	
6,937.00	0.900	280.00	6,757.13	-674.53	-985.13	1,193.93	0.61	0.21	-42.11	
7,032.00	0.800	243.80	6,852.12	-674.69	-986.46	1,195.11	0.56	-0.11	-38.11	
7,127.00	1.200	204.80	6,947.11	-675.88	-987.47	1,196.63	0.81	0.42	-41.05	
7,222.00	1.500	189.20	7,042.08	-678.01	-988.09	1,198.34	0.50	0.32	-16.42	
7,316.00	1.100	127.50	7,136.06	-679.78	-987.57	1,198.91	1.46	-0.43	-65.64	
7,411.00	1.500	72.30	7,231.04	-679.96	-985.66	1,197.44	1.32	0.42	-58.11	
7,506.00	0.800	152.50	7,326.03	-680.17	-984.17	1,196.33	1.66	-0.74	84.42	
7,601.00	2.000	160.90	7,421.00	-682.32	-983.32	1,196.85	1.28	1.26	8.84	
7,696.00	2.700	159.90	7,515.92	-685.99	-982.01	1,197.85	0.74	0.74	-1.05	
7,791.00	2.700	168.50	7,610.81	-690.28	-980.79	1,199.28	0.43	0.00	9.05	
7,857.00	2.900	166.40	7,676.73	-693.43	-980.09	1,200.49	0.34	0.30	-3.18	
7,907.00	2.900	166.40	7,726.67	-695.89	-979.50	1,201.39	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
660.00	660.00	-0.52	0.53	End of Gyro Surveys	
3,527.00	3,406.00	-429.12	-617.76	As of May 25	
7,696.00	7,515.92	-685.99	-982.01	As of May 28	
7,907.00	7,726.67	-695.89	-979.50	Projected TD	

Checked By: _____	Approved By: _____	Date: _____
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