



**Bill Barrett Corporation**

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Garfield Co., CO (NAD83)

Scott 41C-36-692 Pad (Sec.30-T6S-R91W)

Scott 44A-25-692

Wellbore #1

Design: Wellbore #1

## **Standard Survey Report**

06 June, 2012





Project: Garfield Co., CO (NAD83)  
 Site: Scott 41C-36-692 Pad (Sec.30-T6S-R91W)  
 Well: Scott 44A-25-692  
 Wellbore: Wellbore #1  
 Design: Wellbore #1  
 Latitude: 39° 29' 32.77 N  
 Longitude: 107° 36' 19.48 W  
 Ground Level: 5922.01  
 WELL @ 5945.01ft



**PROJECT DETAILS:** Garfield Co., CO (NAD83)

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

**REFERENCE INFORMATION**

Co-ordinate (NE) Reference: Well Scott 44A-25-692, True North  
 Vertical (TVD) Reference: WELL @ 5945.01ft  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: WELL @ 5945.01ft  
 Calculation Method: Minimum Curvature

**WELL DETAILS:** Scott 44A-25-692

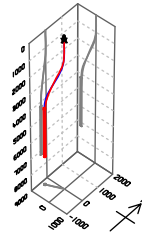
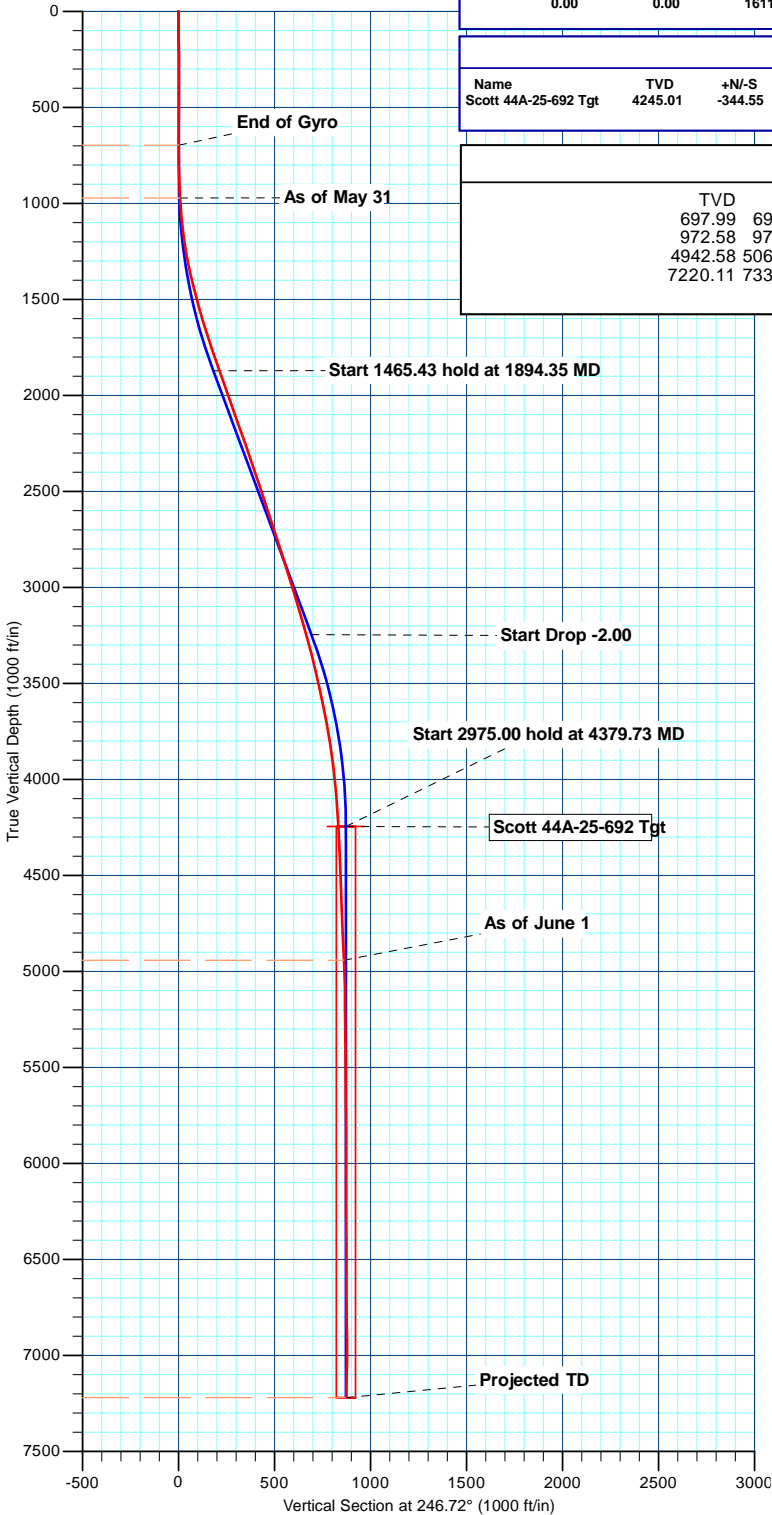
+N/-S	+E/-W	Northing	Ground Level:	5922.01	Latitude	Longitude	Slot
0.00	0.00	1611133.94	Easting	2405874.85	39° 29' 32.77 N	107° 36' 19.48 W	

**WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Scott 44A-25-692 Tgt	4245.01	-344.55	-800.66	1610808.04	2405066.43	39° 29' 29.37 N	107° 36' 29.70 W	Circle (Radius: 50.00)

**ANNOTATIONS**

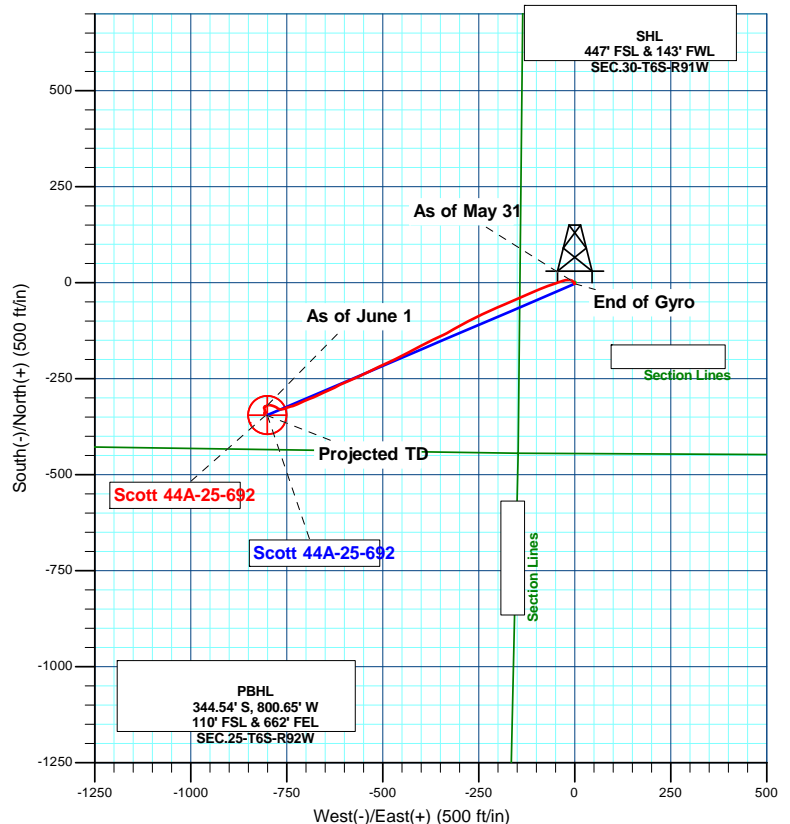
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSed	Departure	Annotation
697.99	698.00	0.180	107.91	-2.03	-1.26	1.96	3.34	End of Gyro
972.58	973.00	4.500	285.00	6.53	-10.13	6.73	16.76	As of May 31
4942.58	5060.00	2.500	249.00	-319.24	-800.81	861.78	884.92	As of June 1
7220.11	7338.00	1.100	121.00	-344.21	-804.42	874.97	931.63	Projected TD



**FORMATION TOP DETAILS**

No formation data is available

**Azimuths to True North**  
 Magnetic North: 10.08°  
 Magnetic Field Strength: 52222.3snT  
 Dip Angle: 65.79°  
 Date: 03/19/2012  
 Model: IGRF2010



<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Scott 44A-25-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	WELL @ 5945.01ft
<b>Site:</b>	Scott 41C-36-692 Pad (Sec.30-T6S-R91W)	<b>MD Reference:</b>	WELL @ 5945.01ft
<b>Well:</b>	Scott 44A-25-692	<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		

<b>Site</b>	Scott 41C-36-692 Pad (Sec.30-T6S-R91W)				
<b>Site Position:</b>		<b>Northing:</b>	1,611,121.74 usft	<b>Latitude:</b>	39° 29' 32.67 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,405,929.90 usft	<b>Longitude:</b>	107° 36' 18.78 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	1.10 ft	<b>Grid Convergence:</b>	-1.33 °

<b>Well</b>	Scott 44A-25-692					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	1,611,133.93 usft	<b>Latitude:</b>	39° 29' 32.77 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,405,874.86 usft	<b>Longitude:</b>	107° 36' 19.48 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,922.01 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	03/19/12	10.08	65.79	52,222

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<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	246.72	

<b>Survey Program</b>	<b>Date</b>	06/06/12			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
123.00	698.00	Gyro (Wellbore #1)	GYRO	GyroCompass Mode	
787.00	7,338.00	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	0.00
123.00	0.530	207.67	123.00	-0.50	-0.26	0.44	0.43	0.43	0.00	
223.00	0.270	236.57	223.00	-1.04	-0.68	1.03	0.32	-0.26	28.90	
323.00	0.240	161.11	323.00	-1.37	-0.80	1.28	0.31	-0.03	-75.46	
423.00	0.330	227.44	422.99	-1.76	-0.95	1.57	0.32	0.09	66.33	
523.00	0.180	2.43	522.99	-1.80	-1.15	1.77	0.47	-0.15	134.99	
623.00	0.270	212.30	622.99	-1.84	-1.27	1.90	0.44	0.09	-150.13	
698.00	0.180	107.91	697.99	-2.03	-1.26	1.96	0.48	-0.12	-139.19	
<b>End of Gyro</b>										
787.00	1.500	346.00	786.98	-0.94	-1.40	1.66	1.80	1.48	-136.98	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Scott 44A-25-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	WELL @ 5945.01ft
<b>Site:</b>	Scott 41C-36-692 Pad (Sec.30-T6S-R91W)	<b>MD Reference:</b>	WELL @ 5945.01ft
<b>Well:</b>	Scott 44A-25-692	<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)	
882.00	4.500	317.00	881.85	2.99	-4.25	2.72	3.44	3.16	-30.53	
973.00	4.500	285.00	972.58	6.53	-10.13	6.73	2.72	0.00	-35.16	
<b>As of May 31</b>										
1,065.00	5.800	265.20	1,064.21	7.07	-18.25	13.97	2.37	1.41	-21.52	
1,161.00	8.300	258.50	1,159.48	5.28	-29.88	25.36	2.74	2.60	-6.98	
1,256.00	9.800	246.60	1,253.30	0.70	-44.02	40.15	2.52	1.58	-12.53	
1,351.00	12.000	252.40	1,346.59	-5.49	-60.85	58.07	2.58	2.32	6.11	
1,446.00	13.900	248.70	1,439.17	-12.63	-80.90	79.30	2.18	2.00	-3.89	
1,541.00	15.400	246.40	1,531.08	-21.82	-103.09	103.32	1.69	1.58	-2.42	
1,636.00	16.700	247.00	1,622.37	-32.20	-127.22	129.59	1.38	1.37	0.63	
1,731.00	19.200	246.70	1,712.74	-43.72	-154.13	158.86	2.63	2.63	-0.32	
1,826.00	18.800	246.50	1,802.57	-56.00	-182.52	189.79	0.43	-0.42	-0.21	
1,921.00	19.200	246.80	1,892.39	-68.26	-210.91	220.72	0.43	0.42	0.32	
2,016.00	19.200	244.40	1,982.11	-81.16	-239.36	251.95	0.83	0.00	-2.53	
2,112.00	19.300	242.90	2,072.74	-95.21	-267.72	283.55	0.53	0.10	-1.56	
2,207.00	19.700	241.30	2,162.29	-110.05	-295.74	315.16	0.70	0.42	-1.68	
2,302.00	19.900	239.90	2,251.68	-125.85	-323.77	347.15	0.54	0.21	-1.47	
2,397.00	18.800	245.00	2,341.32	-140.43	-351.64	378.51	2.12	-1.16	5.37	
2,492.00	18.100	244.80	2,431.43	-153.18	-378.86	408.56	0.74	-0.74	-0.21	
2,587.00	18.400	242.40	2,521.65	-166.41	-405.50	438.26	0.85	0.32	-2.53	
2,682.00	18.400	240.70	2,611.80	-180.70	-431.87	468.12	0.56	0.00	-1.79	
2,777.00	18.000	244.10	2,702.05	-194.44	-458.15	497.70	1.19	-0.42	3.58	
2,872.00	18.100	245.00	2,792.37	-207.09	-484.73	527.11	0.31	0.11	0.95	
2,967.00	17.500	245.40	2,882.82	-219.28	-511.09	556.14	0.64	-0.63	0.42	
3,063.00	17.000	242.50	2,974.51	-231.76	-536.66	584.57	1.04	-0.52	-3.02	
3,158.00	17.200	247.00	3,065.31	-243.67	-561.91	612.46	1.41	0.21	4.74	
3,253.00	16.300	245.60	3,156.28	-254.66	-586.98	639.84	1.04	-0.95	-1.47	
3,348.00	15.400	245.40	3,247.67	-265.42	-610.59	665.78	0.95	-0.95	-0.21	
3,443.00	14.700	242.80	3,339.41	-276.18	-632.78	690.42	1.02	-0.74	-2.74	
3,538.00	12.700	247.80	3,431.71	-285.64	-653.17	712.89	2.44	-2.11	5.26	
3,633.00	12.000	243.10	3,524.51	-294.05	-671.65	733.18	1.29	-0.74	-4.95	
3,728.00	11.700	250.60	3,617.49	-301.72	-689.54	752.65	1.65	-0.32	7.89	
3,823.00	11.400	243.60	3,710.57	-309.09	-707.04	771.64	1.51	-0.32	-7.37	
3,918.00	8.300	247.50	3,804.16	-315.90	-721.79	787.87	3.34	-3.26	4.11	
4,014.00	7.800	252.20	3,899.22	-320.54	-734.39	801.29	0.86	-0.52	4.90	
4,109.00	5.400	256.20	3,993.58	-323.58	-744.87	812.11	2.57	-2.53	4.21	
4,204.00	5.600	245.50	4,088.14	-326.56	-753.43	821.16	1.10	0.21	-11.26	
4,299.00	4.400	260.60	4,182.79	-329.08	-761.25	829.33	1.86	-1.26	15.89	
4,394.00	3.500	272.30	4,277.56	-329.56	-767.74	835.48	1.27	-0.95	12.32	
4,489.00	3.300	311.90	4,372.41	-327.62	-772.67	839.25	2.43	-0.21	41.68	
4,584.00	2.600	297.10	4,467.28	-324.81	-776.63	841.77	1.08	-0.74	-15.58	
4,679.00	4.100	293.10	4,562.12	-322.50	-781.67	845.49	1.60	1.58	-4.21	
4,774.00	3.300	287.10	4,656.92	-320.36	-787.41	849.91	0.93	-0.84	-6.32	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Scott 44A-25-692
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>TVD Reference:</b>	WELL @ 5945.01ft
<b>Site:</b>	Scott 41C-36-692 Pad (Sec.30-T6S-R91W)	<b>MD Reference:</b>	WELL @ 5945.01ft
<b>Well:</b>	Scott 44A-25-692	<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)	
4,869.00	2.900	283.70	4,751.78	-318.99	-792.35	853.91	0.46	-0.42	-3.58	
4,965.00	2.500	268.80	4,847.67	-318.46	-796.81	857.79	0.84	-0.42	-15.52	
5,060.00	2.500	249.00	4,942.58	-319.24	-800.81	861.78	0.90	0.00	-20.84	
<b>As of June 1</b>										
5,155.00	1.800	230.00	5,037.52	-320.94	-803.89	865.28	1.04	-0.74	-20.00	
5,250.00	0.300	334.70	5,132.50	-321.68	-805.14	866.72	2.00	-1.58	110.21	
5,345.00	1.400	208.60	5,227.49	-322.47	-805.80	867.64	1.68	1.16	-132.74	
5,440.00	0.800	16.70	5,322.49	-322.85	-806.17	868.13	2.30	-0.63	176.95	
5,535.00	0.800	271.90	5,417.48	-322.20	-806.64	868.30	1.33	0.00	-110.32	
5,630.00	1.500	219.30	5,512.46	-323.14	-808.09	870.01	1.26	0.74	-55.37	
5,725.00	1.800	201.10	5,607.42	-325.49	-809.41	872.16	0.63	0.32	-19.16	
5,820.00	0.900	96.50	5,702.41	-326.97	-809.21	872.55	2.32	-0.95	-110.11	
5,916.00	0.700	168.50	5,798.40	-327.63	-808.34	872.02	0.99	-0.21	75.00	
6,011.00	1.000	146.00	5,893.39	-328.88	-807.76	871.98	0.47	0.32	-23.68	
6,106.00	1.200	188.40	5,988.37	-330.56	-807.45	872.35	0.86	0.21	44.63	
6,201.00	1.800	157.60	6,083.34	-332.92	-807.02	872.89	1.04	0.63	-32.42	
6,296.00	0.500	132.10	6,178.32	-334.58	-806.15	872.75	1.44	-1.37	-26.84	
6,391.00	1.100	170.90	6,273.31	-335.76	-805.69	872.80	0.82	0.63	40.84	
6,486.00	2.300	189.50	6,368.27	-338.54	-805.86	874.05	1.37	1.26	19.58	
6,581.00	1.600	354.60	6,463.25	-339.10	-806.30	874.68	4.07	-0.74	173.79	
6,676.00	0.400	315.90	6,558.23	-337.54	-806.66	874.39	1.38	-1.26	-40.74	
6,771.00	0.400	18.30	6,653.23	-336.98	-806.79	874.29	0.44	0.00	65.68	
6,867.00	1.800	196.10	6,749.22	-338.11	-807.10	875.02	2.29	1.46	185.21	
6,962.00	2.000	197.80	6,844.17	-341.13	-808.02	877.06	0.22	0.21	1.79	
7,057.00	0.200	41.30	6,939.15	-342.58	-808.42	878.00	2.30	-1.89	-164.74	
7,152.00	1.000	103.50	7,034.14	-342.65	-807.50	877.18	0.97	0.84	65.47	
7,247.00	1.100	121.00	7,129.13	-343.31	-805.91	875.99	0.35	0.11	18.42	
7,338.00	1.100	121.00	7,220.11	-344.21	-804.42	874.97	0.00	0.00	0.00	
<b>Projected TD</b>										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
698.00	697.99	-2.03	-1.26	End of Gyro	
973.00	972.58	6.53	-10.13	As of May 31	
5,060.00	4,942.58	-319.24	-800.81	As of June 1	
7,338.00	7,220.11	-344.21	-804.42	Projected TD	

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