

Bill Barrett Corp.

Garfield Co., CO (NAD83)

Epperly 23-692 Pad (Sec.23-T6S-R92W)

Epperly 13B-23-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

04 April, 2012



Project: Garfield Co., CO (NAD83)
Site: Epperly 23-692 Pad (Sec.23-T6S-R92W)
Well: Epperly 13B-23-692
Wellbore: Wellbore #1
Design: Wellbore #1
Latitude: 39° 30' 42.53 N
Longitude: 107° 38' 26.30 W
Ground Level: 5854.01
WELL @ 5876.01ft



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 (N/E) Reference: Well Epperly 13B-23-692, True North
Vertical (TVD) Reference: WELL @ 5876.01ft
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: WELL @ 5876.01ft
Calculation Method: Minimum Curvature

WELL DETAILS: Epperly 13B-23-692

+N/-S	+E/-W	Northing	Ground Level:	5854.01	Latitude	Longitude	Slot
0.00	0.00	1618422.16	Easting	2396102.56	39° 30' 42.53 N	107° 38' 26.30 W	

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

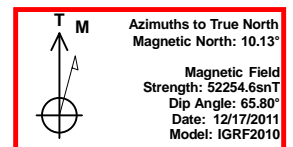
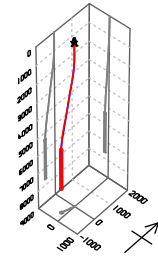
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Epperly 13B-23-692 Tgt	5400.01	-572.57	-185.09	1617854.11	2395904.04	39° 30' 36.87 N	107° 38' 28.66 W	Circle (Radius: 50.00)

ANNOTATIONS

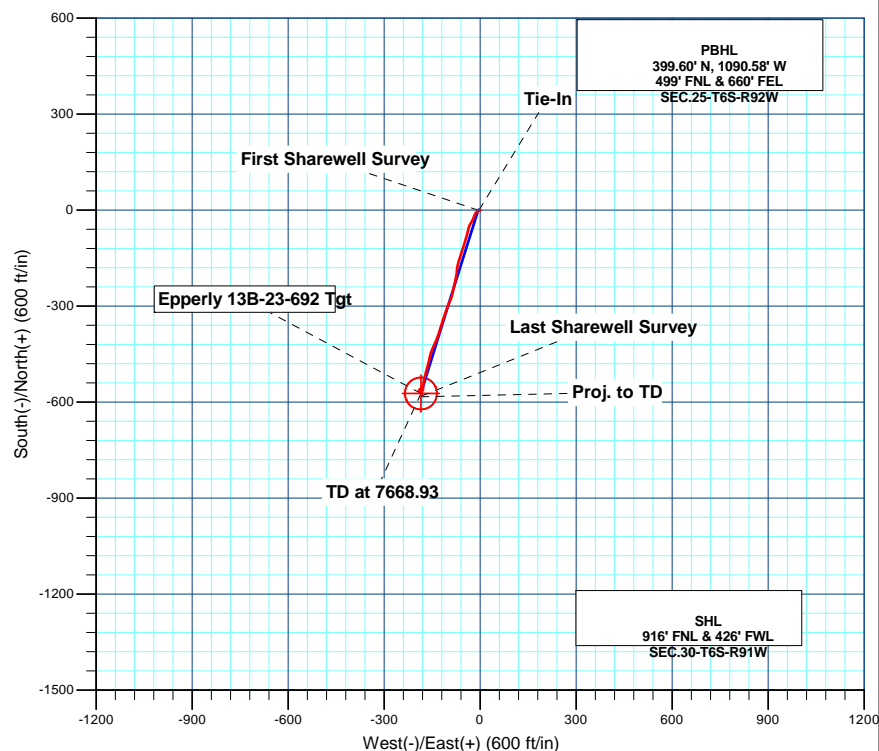
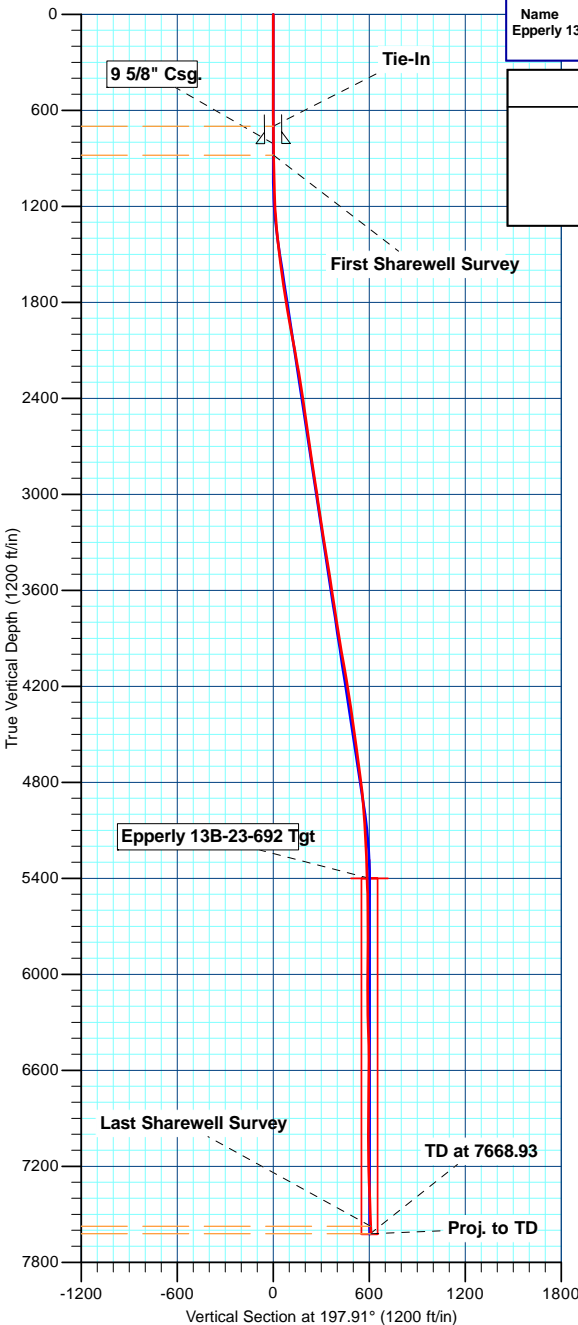
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSD	Departure	Annotation
699.99	700.00	0.360	305.31	0.42	-3.28	0.61	3.51	Tie-In
880.98	881.00	0.900	224.20	-0.27	-4.73	1.71	5.50	First Sharewell Survey
7574.49	7618.02	2.500	201.80	-581.18	-183.78	609.53	647.32	Last Sharewell Survey
7621.44	7665.02	2.500	201.80	-583.08	-184.54	611.58	649.37	Proj. to TD

FORMATION TOP DETAILS

No formation data is available



Azimuths to True North
Magnetic North: 10.13°
Magnetic Field
Strength: 52254.6snT
Dip Angle: 65.80°
Date: 12/17/2011
Model: IGRF2010



Design: Wellbore #1 (Epperly 13B-23-692/Wellbore #1)

Created By: Bret Wolford Date: 13:15, April 04 2012

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 13B-23-692
Project:	Garfield Co., CO (NAD83)	TVD Reference:	WELL @ 5876.01ft
Site:	Epperly 23-692 Pad (Sec.23-T6S-R92W)	MD Reference:	WELL @ 5876.01ft
Well:	Epperly 13B-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

Project	Garfield Co., CO (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	Epperly 23-692 Pad (Sec.23-T6S-R92W)				
Site Position:		Northing:	1,618,438.20 usft	Latitude:	39° 30' 42.69 N
From:	Lat/Long	Easting:	2,396,102.66 usft	Longitude:	107° 38' 26.30 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.35 °

Well		Epperly 13B-23-692				
Well Position	+N/-S	0.00 ft	Northing:	1,618,422.16 usft	Latitude:	39° 30' 42.53 N
	+E/-W	0.00 ft	Easting:	2,396,102.57 usft	Longitude:	107° 38' 26.30 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,854.01 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/17/2011	10.13	65.80	52,255

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	197.91	

Survey Program	Date	4/4/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	700.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
700.00	7,665.02	Survey #2 (Wellbore #1)	MWD	MWD - Standard	

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.320	253.17	100.00	-0.08	-0.27	0.16	0.32	0.32	0.00	
200.00	0.240	249.83	200.00	-0.23	-0.73	0.45	0.08	-0.08	-3.34	
300.00	0.230	269.36	300.00	-0.31	-1.13	0.64	0.08	-0.01	19.53	
400.00	0.340	275.02	400.00	-0.28	-1.62	0.77	0.11	0.11	5.66	
500.00	0.290	284.64	500.00	-0.19	-2.17	0.85	0.07	-0.05	9.62	
600.00	0.410	301.00	599.99	0.05	-2.72	0.78	0.16	0.12	16.36	
700.00	0.360	305.31	699.99	0.42	-3.28	0.61	0.06	-0.05	4.31	
881.00	0.900	224.20	880.98	-0.27	-4.73	1.71	0.51	0.30	-44.81	
977.00	1.700	197.70	976.96	-2.17	-5.69	3.81	1.02	0.83	-27.60	

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 13B-23-692
Project:	Garfield Co., CO (NAD83)	TVD Reference:	WELL @ 5876.01ft
Site:	Epperly 23-692 Pad (Sec.23-T6S-R92W)	MD Reference:	WELL @ 5876.01ft
Well:	Epperly 13B-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
1,062.00	2.100	247.40	1,061.92	-3.97	-7.51	6.09	1.93	0.47	58.47
1,154.00	2.800	241.00	1,153.83	-5.71	-11.04	8.82	0.82	0.76	-6.96
1,249.00	4.300	207.90	1,248.66	-9.98	-14.73	14.03	2.61	1.58	-34.84
1,344.00	4.800	198.40	1,343.36	-16.90	-17.65	21.51	0.95	0.53	-10.00
1,440.00	6.900	206.20	1,438.86	-25.88	-21.47	31.23	2.33	2.19	8.12
1,535.00	7.000	207.20	1,533.16	-36.15	-26.63	42.59	0.17	0.11	1.05
1,630.00	8.300	208.60	1,627.31	-47.32	-32.56	55.04	1.38	1.37	1.47
1,725.00	8.700	190.60	1,721.28	-60.41	-37.17	68.91	2.82	0.42	-18.95
1,820.00	9.400	197.00	1,815.10	-74.89	-40.76	83.79	1.29	0.74	6.74
1,915.00	9.500	194.40	1,908.81	-89.90	-44.98	99.38	0.46	0.11	-2.74
2,011.00	10.300	198.20	2,003.39	-105.73	-49.63	115.87	1.08	0.83	3.96
2,106.00	11.100	198.80	2,096.73	-122.45	-55.23	133.50	0.85	0.84	0.63
2,201.00	10.200	195.20	2,190.10	-139.23	-60.38	151.05	1.18	-0.95	-3.79
2,296.00	9.100	200.20	2,283.75	-154.40	-65.18	166.96	1.45	-1.16	5.26
2,391.00	8.600	194.30	2,377.62	-168.33	-69.53	181.56	1.09	-0.53	-6.21
2,487.01	7.700	184.40	2,472.66	-181.70	-71.79	194.97	1.73	-0.94	-10.31
2,582.01	8.800	186.90	2,566.67	-195.26	-73.15	208.30	1.22	1.16	2.63
2,677.01	8.200	189.40	2,660.63	-209.16	-75.13	222.13	0.74	-0.63	2.63
2,772.01	8.700	193.40	2,754.60	-222.83	-77.91	235.99	0.81	0.53	4.21
2,867.01	8.300	194.10	2,848.56	-236.47	-81.24	250.00	0.43	-0.42	0.74
2,963.01	9.100	191.90	2,943.45	-250.62	-84.50	264.46	0.90	0.83	-2.29
3,058.01	7.600	191.20	3,037.44	-264.13	-87.26	278.17	1.58	-1.58	-0.74
3,154.01	8.900	203.80	3,132.46	-277.16	-91.49	291.86	2.31	1.35	13.12
3,249.01	9.500	205.20	3,226.23	-290.98	-97.80	306.95	0.67	0.63	1.47
3,344.01	8.400	196.30	3,320.08	-304.73	-103.08	321.66	1.86	-1.16	-9.37
3,440.01	9.600	200.50	3,414.90	-318.96	-107.86	336.67	1.42	1.25	4.37
3,535.01	9.000	199.60	3,508.65	-333.38	-113.12	352.01	0.65	-0.63	-0.95
3,630.01	9.000	198.70	3,602.48	-347.42	-118.00	366.87	0.15	0.00	-0.95
3,726.01	8.400	196.50	3,697.37	-361.25	-122.40	381.39	0.71	-0.62	-2.29
3,821.01	8.600	191.80	3,791.33	-374.86	-125.82	395.39	0.76	0.21	-4.95
3,916.01	9.100	204.30	3,885.21	-388.66	-130.36	409.92	2.09	0.53	13.16
4,011.01	9.600	201.20	3,978.95	-402.89	-136.32	425.29	0.75	0.53	-3.26
4,106.01	10.400	203.70	4,072.50	-418.13	-142.63	441.73	0.96	0.84	2.63
4,202.01	9.100	203.30	4,167.12	-433.04	-149.12	457.91	1.36	-1.35	-0.42
4,297.01	9.100	197.40	4,260.92	-447.11	-154.34	472.90	0.98	0.00	-6.21
4,392.01	8.400	194.20	4,354.82	-461.00	-158.29	487.34	0.90	-0.74	-3.37
4,487.01	8.300	188.30	4,448.81	-474.52	-160.98	501.03	0.91	-0.11	-6.21
4,583.01	7.600	198.90	4,543.89	-487.38	-164.03	514.21	1.69	-0.73	11.04
4,678.01	7.500	195.50	4,638.07	-499.30	-167.73	526.68	0.48	-0.11	-3.58
4,773.01	7.900	190.80	4,732.22	-511.68	-170.61	539.35	0.78	0.42	-4.95
4,868.01	6.900	198.70	4,826.43	-523.50	-173.66	551.54	1.50	-1.05	8.32
4,964.01	4.700	183.20	4,921.93	-532.89	-175.73	561.11	2.79	-2.29	-16.15
5,059.01	3.900	197.70	5,016.67	-539.86	-176.93	568.11	1.41	-0.84	15.26

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 13B-23-692
Project:	Garfield Co., CO (NAD83)	TVD Reference:	WELL @ 5876.01ft
Site:	Epperly 23-692 Pad (Sec.23-T6S-R92W)	MD Reference:	WELL @ 5876.01ft
Well:	Epperly 13B-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
5,154.01	4.000	187.80	5,111.45	-546.22	-178.36	574.60	0.72	0.11	-10.42	
5,250.01	2.400	186.40	5,207.29	-551.53	-179.04	579.87	1.67	-1.67	-1.46	
5,345.01	1.500	178.60	5,302.24	-554.75	-179.23	582.99	0.99	-0.95	-8.21	
5,440.01	3.000	169.90	5,397.16	-558.45	-178.76	586.36	1.61	1.58	-9.16	
5,536.01	1.100	193.60	5,493.10	-561.81	-178.54	589.49	2.13	-1.98	24.69	
5,631.01	1.800	239.80	5,588.07	-563.45	-180.04	591.51	1.38	0.74	48.63	
5,726.01	0.400	188.10	5,683.05	-564.53	-181.38	592.95	1.67	-1.47	-54.42	
5,821.01	2.000	337.70	5,778.03	-563.32	-182.06	592.01	2.48	1.68	157.47	
5,916.01	2.500	308.90	5,872.96	-560.49	-184.30	590.00	1.28	0.53	-30.32	
6,012.01	0.400	251.80	5,968.93	-559.28	-186.25	589.45	2.40	-2.19	-59.48	
6,107.01	0.600	261.10	6,063.93	-559.46	-187.05	589.87	0.23	0.21	9.79	
6,202.01	0.900	266.20	6,158.92	-559.59	-188.29	590.37	0.32	0.32	5.37	
6,298.01	1.800	209.80	6,254.89	-560.94	-189.79	592.13	1.56	0.94	-58.75	
6,393.01	1.400	195.50	6,349.86	-563.36	-190.84	594.75	0.59	-0.42	-15.05	
6,488.01	1.600	182.90	6,444.83	-565.80	-191.22	597.19	0.40	0.21	-13.26	
6,583.01	1.100	39.30	6,539.81	-566.42	-190.71	597.62	2.70	-0.53	-151.16	
6,679.01	1.100	106.60	6,635.80	-565.97	-189.24	596.74	1.27	0.00	70.10	
6,774.01	0.700	74.00	6,730.79	-566.07	-187.81	596.39	0.67	-0.42	-34.32	
6,869.01	0.700	77.70	6,825.78	-565.79	-186.68	595.78	0.05	0.00	3.89	
6,965.01	0.900	84.70	6,921.77	-565.59	-185.36	595.19	0.23	0.21	7.29	
7,060.01	0.900	116.60	7,016.76	-565.86	-183.95	595.01	0.52	0.00	33.58	
7,155.01	0.200	93.20	7,111.76	-566.20	-183.12	595.08	0.76	-0.74	-24.63	
7,250.01	1.900	172.10	7,206.74	-567.77	-182.74	596.45	1.97	1.79	83.05	
7,345.01	2.100	179.40	7,301.68	-571.07	-182.50	599.52	0.34	0.21	7.68	
7,440.02	2.000	181.70	7,396.62	-574.47	-182.53	602.76	0.14	-0.11	2.42	
7,536.02	2.200	189.00	7,492.56	-577.96	-182.87	606.19	0.35	0.21	7.60	
7,618.02	2.500	201.80	7,574.49	-581.18	-183.78	609.53	0.73	0.37	15.61	
7,665.02	2.500	201.80	7,621.45	-583.08	-184.54	611.58	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
809.90	809.89	9 5/8" Csg.	0.80	1.02	

Sharewell
Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 13B-23-692
Project:	Garfield Co., CO (NAD83)	TVD Reference:	WELL @ 5876.01ft
Site:	Epperly 23-692 Pad (Sec.23-T6S-R92W)	MD Reference:	WELL @ 5876.01ft
Well:	Epperly 13B-23-692	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassVM

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
700.00	699.99	0.42	-3.28	Tie-In
881.00	880.98	-0.27	-4.73	First Sharewell Survey
7,618.02	7,574.49	-581.18	-183.78	Last Sharewell Survey
7,665.02	7,621.45	-583.08	-184.54	Proj. to TD

Checked By: _____	Approved By: _____	Date: _____
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