

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

Epperly 14B-23-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

21 March, 2012



Project: Garfield Co., CO (NAD83)
Site: Epperly 23-692 Pad (Sec.23-T6S-R92W)
Well: Epperly 14B-23-692
Wellbore: Wellbore #1
Design: Wellbore #1
Latitude: 39° 30' 42.29 N
Longitude: 107° 38' 26.29 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 14B-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 14B-23-692

+N/-S	+E/-W	Northing	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1618398.12	5854.01 2396102.28	39° 30' 42.29 N	107° 38' 26.29 W	

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

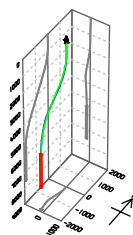
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Epperly 14B-23-692 Tgt	5475.01	-1876.19	-173.81	1616526.55	2395884.31	39° 30' 23.75 N	107° 38' 28.51 W	Circle (Radius: 50.00)

ANNOTATIONS

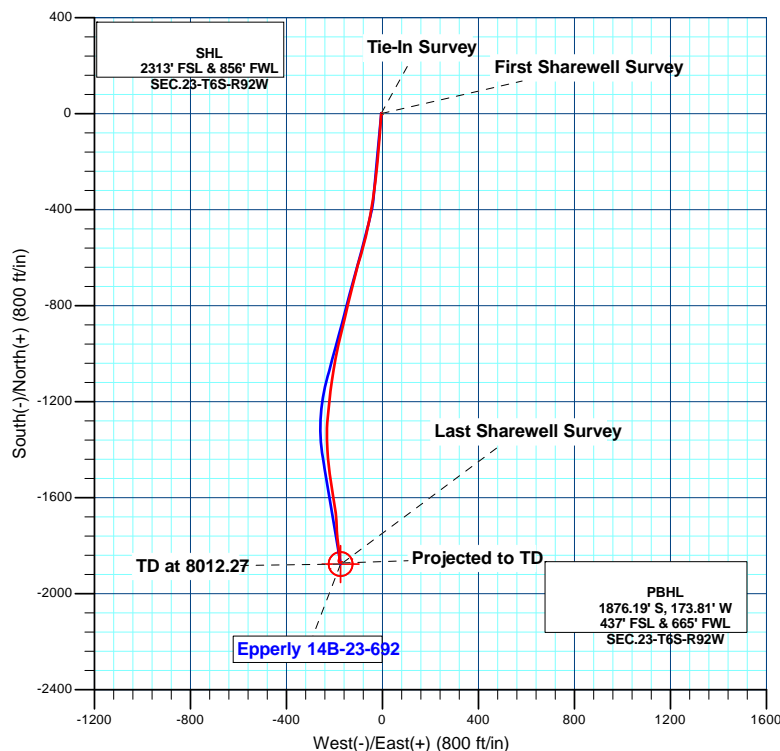
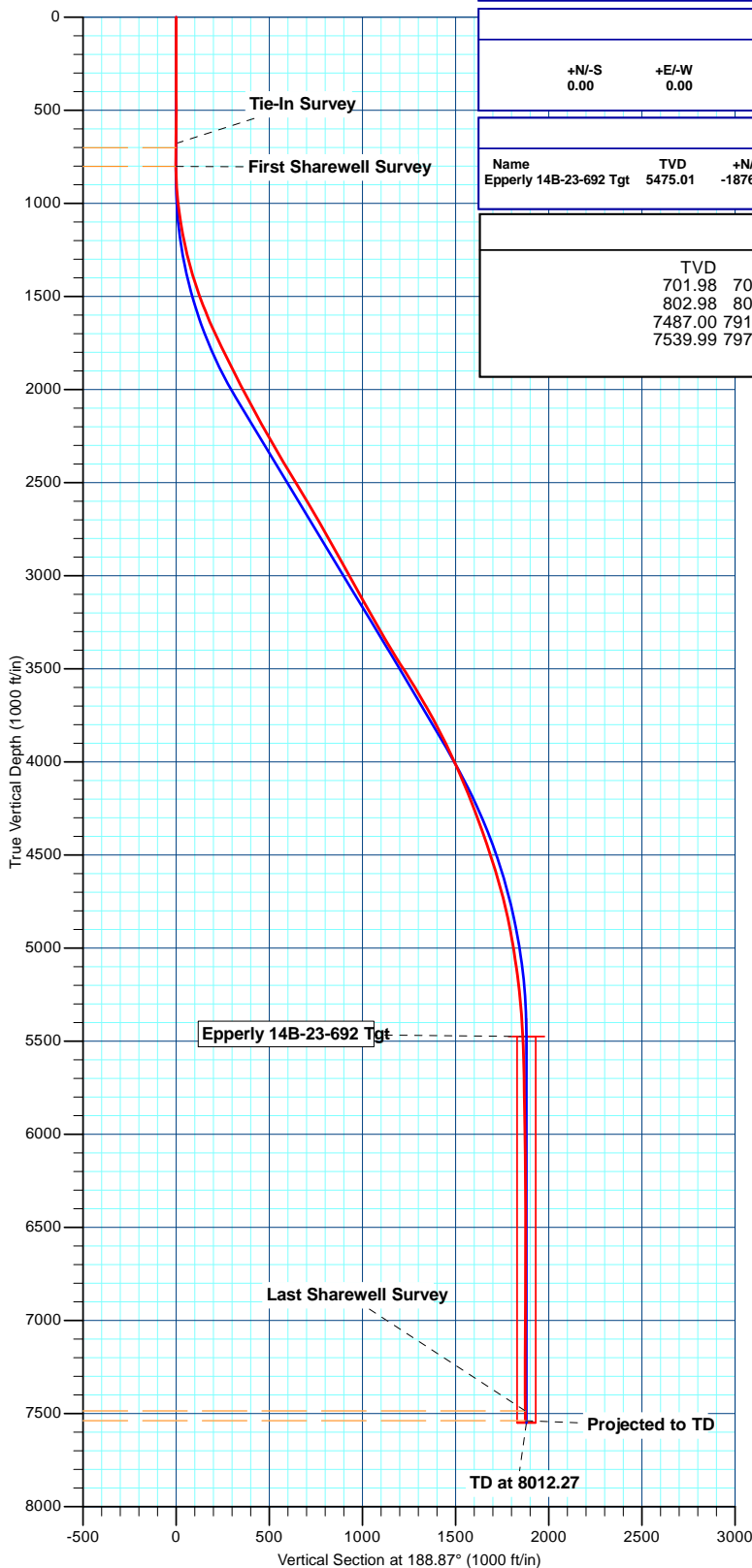
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSe	Departure	Annotation
701.98	702.00	0.140	356.50	0.87	-4.24	-0.21	4.76	Tie-In Survey
802.98	803.00	0.400	91.20	0.99	-3.90	-0.38	5.23	First Sharewell Survey
7487.00	7917.02	0.800	228.50-1871.27	-165.32	1874.40	1926.90		Last Sharewell Survey
7539.99	7970.02	0.800	228.50-1871.76	-165.87	1874.97	1927.64		Projected to TD

FORMATION TOP DETAILS

No formation data is available



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



Design: Wellbore #1 (Epperly 14B-23-692/Wellbore #1)

Created By: Bret Wolford Date: 10:38, March 21 2012

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 14B-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 14B-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 14B-23-692				
Well Position	+N/-S	0.00 ft	Northing:	1,618,398.11 usft	Latitude:	39° 30' 42.29 N
	+E/-W	0.00 ft	Easting:	2,396,102.28 usft	Longitude:	107° 38' 26.29 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	188.87	

Survey Program	Date	3/21/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
122.00	702.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
702.00	7,970.02	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	
122.00	0.550	244.76	122.00	-0.25	-0.53	0.33	0.45	0.45	0.00	
222.00	0.550	273.71	221.99	-0.42	-1.44	0.64	0.27	0.00	28.95	
322.00	0.470	290.34	321.99	-0.25	-2.31	0.60	0.17	-0.08	16.63	
422.00	0.490	289.12	421.99	0.03	-3.09	0.44	0.02	0.02	-1.22	
522.00	0.370	303.69	521.98	0.35	-3.77	0.23	0.16	-0.12	14.57	
622.00	0.200	320.63	621.98	0.67	-4.15	-0.02	0.19	-0.17	16.94	
702.00	0.140	356.50	701.98	0.87	-4.24	-0.21	0.15	-0.07	44.84	
803.00	0.400	91.20	802.98	0.99	-3.90	-0.38	0.43	0.26	93.76	
879.00	2.000	201.70	878.97	-0.25	-4.12	0.88	2.86	2.11	145.39	

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 14B-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 14B-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)
970.00	5.900	180.80	969.74	-6.41	-4.77	7.06	4.50	4.29	-22.97
1,062.00	8.300	182.70	1,061.03	-17.77	-5.15	18.35	2.62	2.61	2.07
1,154.00	10.100	186.40	1,151.84	-32.42	-6.37	33.01	2.06	1.96	4.02
1,249.00	12.700	184.20	1,244.96	-51.11	-8.06	51.75	2.77	2.74	-2.32
1,345.00	15.200	184.10	1,338.12	-74.20	-9.73	74.81	2.60	2.60	-0.10
1,440.00	18.400	185.80	1,429.05	-101.54	-12.14	102.20	3.41	3.37	1.79
1,535.00	20.200	184.70	1,518.71	-132.81	-15.00	133.53	1.93	1.89	-1.16
1,630.00	22.600	184.40	1,607.16	-167.36	-17.74	168.09	2.53	2.53	-0.32
1,725.00	25.100	183.20	1,694.04	-205.68	-20.27	206.35	2.68	2.63	-1.26
1,821.00	26.000	187.90	1,780.66	-246.86	-24.30	247.66	2.31	0.94	4.90
1,916.00	26.400	186.90	1,865.90	-288.45	-29.70	289.58	0.63	0.42	-1.05
2,011.00	27.100	187.20	1,950.73	-330.89	-34.95	332.32	0.75	0.74	0.32
2,106.00	27.900	190.70	2,035.00	-374.20	-41.79	376.17	1.90	0.84	3.68
2,201.00	28.600	191.00	2,118.69	-418.36	-50.25	421.11	0.75	0.74	0.32
2,296.00	29.100	189.90	2,201.90	-463.44	-58.56	466.93	0.77	0.53	-1.16
2,392.00	29.800	193.70	2,285.50	-509.62	-68.23	514.04	2.08	0.73	3.96
2,487.01	30.900	195.90	2,367.48	-556.01	-80.50	561.78	1.65	1.16	2.32
2,582.01	31.900	196.10	2,448.57	-603.59	-94.14	610.89	1.06	1.05	0.21
2,677.01	30.800	194.80	2,529.70	-651.23	-107.32	659.98	1.36	-1.16	-1.37
2,772.01	31.600	194.50	2,610.96	-698.84	-119.76	708.95	0.86	0.84	-0.32
2,868.01	30.300	194.00	2,693.29	-746.69	-131.92	758.10	1.38	-1.35	-0.52
2,963.01	28.500	193.20	2,776.05	-792.01	-142.89	804.57	1.94	-1.89	-0.84
3,058.01	28.800	192.90	2,859.42	-836.38	-153.18	850.00	0.35	0.32	-0.32
3,154.01	29.500	193.70	2,943.26	-881.89	-163.94	896.62	0.83	0.73	0.83
3,249.01	29.400	193.70	3,025.98	-927.27	-175.00	943.16	0.11	-0.11	0.00
3,344.01	29.400	192.10	3,108.75	-972.72	-185.41	989.68	0.83	0.00	-1.68
3,440.01	28.900	190.30	3,192.59	-1,018.59	-194.50	1,036.39	1.05	-0.52	-1.87
3,535.01	30.700	189.30	3,275.03	-1,065.11	-202.52	1,083.60	1.97	1.89	-1.05
3,630.01	30.100	188.70	3,356.97	-1,112.59	-210.05	1,131.67	0.71	-0.63	-0.63
3,726.01	31.600	186.70	3,439.38	-1,161.37	-216.62	1,180.88	1.89	1.56	-2.08
3,821.01	32.600	185.10	3,519.86	-1,211.58	-221.80	1,231.29	1.38	1.05	-1.68
3,916.01	31.100	186.20	3,600.56	-1,261.47	-226.73	1,281.34	1.69	-1.58	1.16
4,011.01	30.200	182.80	3,682.29	-1,309.73	-230.54	1,329.61	2.06	-0.95	-3.58
4,107.01	29.200	178.60	3,765.69	-1,357.26	-231.15	1,376.67	2.40	-1.04	-4.37
4,202.01	27.200	175.20	3,849.41	-1,402.07	-228.77	1,420.58	2.70	-2.11	-3.58
4,297.01	26.300	176.10	3,934.24	-1,444.71	-225.52	1,462.20	1.04	-0.95	0.95
4,392.01	25.300	172.50	4,019.78	-1,485.83	-221.44	1,502.21	1.96	-1.05	-3.79
4,487.01	24.000	171.40	4,106.12	-1,525.06	-215.90	1,540.12	1.45	-1.37	-1.16
4,583.01	22.700	171.80	4,194.26	-1,562.70	-210.34	1,576.45	1.36	-1.35	0.42
4,678.01	21.600	170.10	4,282.25	-1,598.07	-204.72	1,610.53	1.34	-1.16	-1.79
4,773.01	20.700	168.90	4,370.85	-1,631.78	-198.48	1,642.87	1.05	-0.95	-1.26
4,869.01	18.900	175.30	4,461.18	-1,663.93	-193.94	1,673.94	2.93	-1.87	6.67
4,964.01	18.100	176.70	4,551.27	-1,694.00	-191.83	1,703.32	0.96	-0.84	1.47

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 14B-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 14B-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)	
5,059.01	16.300	175.70	4,642.02	-1,722.03	-189.98	1,730.73	1.92	-1.89	-1.05	
5,155.01	14.900	176.50	4,734.48	-1,747.78	-188.21	1,755.91	1.48	-1.46	0.83	
5,250.01	11.800	176.00	4,826.90	-1,769.67	-186.79	1,777.31	3.27	-3.26	-0.53	
5,345.01	11.500	173.10	4,919.94	-1,788.76	-184.97	1,795.90	0.69	-0.32	-3.05	
5,440.01	9.500	172.50	5,013.35	-1,805.93	-182.81	1,812.53	2.11	-2.11	-0.63	
5,536.01	8.300	174.20	5,108.19	-1,820.68	-181.08	1,826.84	1.28	-1.25	1.77	
5,631.01	7.100	176.20	5,202.33	-1,833.36	-180.00	1,839.20	1.29	-1.26	2.11	
5,726.01	4.700	174.60	5,296.82	-1,843.10	-179.24	1,848.70	2.53	-2.53	-1.68	
5,821.01	3.600	182.90	5,391.57	-1,849.95	-179.03	1,855.44	1.32	-1.16	8.74	
5,917.01	3.700	184.50	5,487.38	-1,856.05	-179.42	1,861.53	0.15	0.10	1.67	
6,012.01	0.800	222.40	5,582.30	-1,859.60	-180.11	1,865.14	3.27	-3.05	39.89	
6,107.01	1.000	202.30	5,677.29	-1,860.85	-180.87	1,866.50	0.39	0.21	-21.16	
6,202.01	1.500	198.60	5,772.26	-1,862.80	-181.58	1,868.53	0.53	0.53	-3.89	
6,298.01	1.100	130.80	5,868.25	-1,864.59	-181.28	1,870.25	1.55	-0.42	-70.62	
6,393.01	1.300	167.20	5,963.23	-1,866.24	-180.36	1,871.74	0.81	0.21	38.32	
6,488.01	0.600	72.60	6,058.22	-1,867.14	-179.64	1,872.52	1.55	-0.74	-99.58	
6,584.01	1.300	191.50	6,154.21	-1,868.06	-179.38	1,873.38	1.74	0.73	123.85	
6,679.01	1.100	80.50	6,249.20	-1,868.96	-178.70	1,874.17	2.09	-0.21	-116.84	
6,774.01	1.900	123.10	6,344.17	-1,869.67	-176.48	1,874.53	1.39	0.84	44.84	
6,870.01	2.100	129.10	6,440.11	-1,871.65	-173.78	1,876.07	0.30	0.21	6.25	
6,965.01	0.600	89.30	6,535.08	-1,872.74	-171.93	1,876.87	1.77	-1.58	-41.89	
7,060.01	1.100	91.60	6,630.07	-1,872.76	-170.52	1,876.67	0.53	0.53	2.42	
7,155.01	0.300	225.70	6,725.07	-1,872.96	-169.79	1,876.75	1.40	-0.84	141.16	
7,250.01	1.300	11.00	6,820.06	-1,872.08	-169.76	1,875.87	1.64	1.05	152.95	
7,345.01	1.100	346.00	6,915.04	-1,870.13	-169.77	1,873.96	0.58	-0.21	-26.32	
7,441.02	0.800	112.80	7,011.03	-1,869.50	-169.38	1,873.27	1.78	-0.31	132.08	
7,536.02	1.000	119.30	7,106.02	-1,870.16	-168.05	1,873.72	0.24	0.21	6.84	
7,631.02	0.800	87.50	7,201.01	-1,870.54	-166.66	1,873.88	0.56	-0.21	-33.47	
7,726.02	0.400	50.60	7,296.00	-1,870.30	-165.74	1,873.50	0.57	-0.42	-38.84	
7,821.02	0.600	137.80	7,391.00	-1,870.46	-165.15	1,873.56	0.74	0.21	91.79	
7,917.02	0.800	228.50	7,487.00	-1,871.27	-165.32	1,874.40	1.05	0.21	94.48	
7,970.02	0.800	228.50	7,539.99	-1,871.76	-165.87	1,874.97	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
790.20	790.18	9 5/8" Csg.	0.80	1.02	

Sharewell
Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 14B-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 14B-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)	
702.00	701.98	0.87	-4.24	Tie-In Survey
803.00	802.98	0.99	-3.90	First Sharewell Survey
7,917.02	7,487.00	-1,871.27	-165.32	Last Sharewell Survey
7,970.02	7,539.99	-1,871.76	-165.87	Projected to TD

Checked By: _____	Approved By: _____	Date: _____
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