

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

Epperly 23C-23-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

18 April, 2012



Project: Garfield Co., CO (NAD83)
Site: Epperly 23-692 Pad (Sec.23-T6S-R92W)
Well: Epperly 23C-23-692
Wellbore: Wellbore #1
Design: Wellbore #1
Latitude: 39° 30' 42.61 N
Longitude: 107° 38' 26.17 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 23C-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 23C-23-692

+N/-S	+E/-W	Northing	Ground Level:	5854.01	Latitude	Longitude	Slot
0.00	0.00	1618429.95	Easting	2396112.62	39° 30' 42.61 N	107° 38' 26.17 W	

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

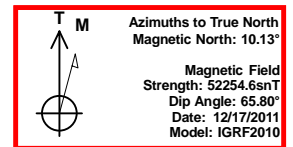
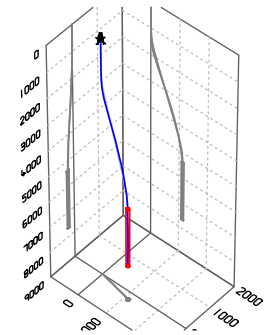
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Epperly 23C-23-692 Tgt	5375.01	-243.64	1131.10	1618159.72	2397237.67	39° 30' 40.20 N	107° 38' 11.74 W	Circle (Radius: 50.00)

ANNOTATIONS

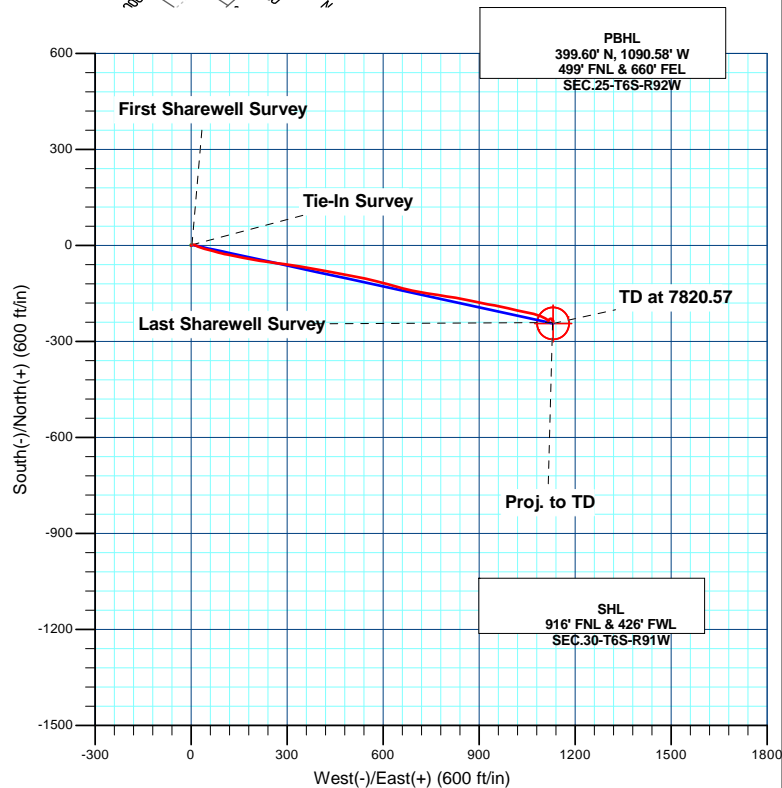
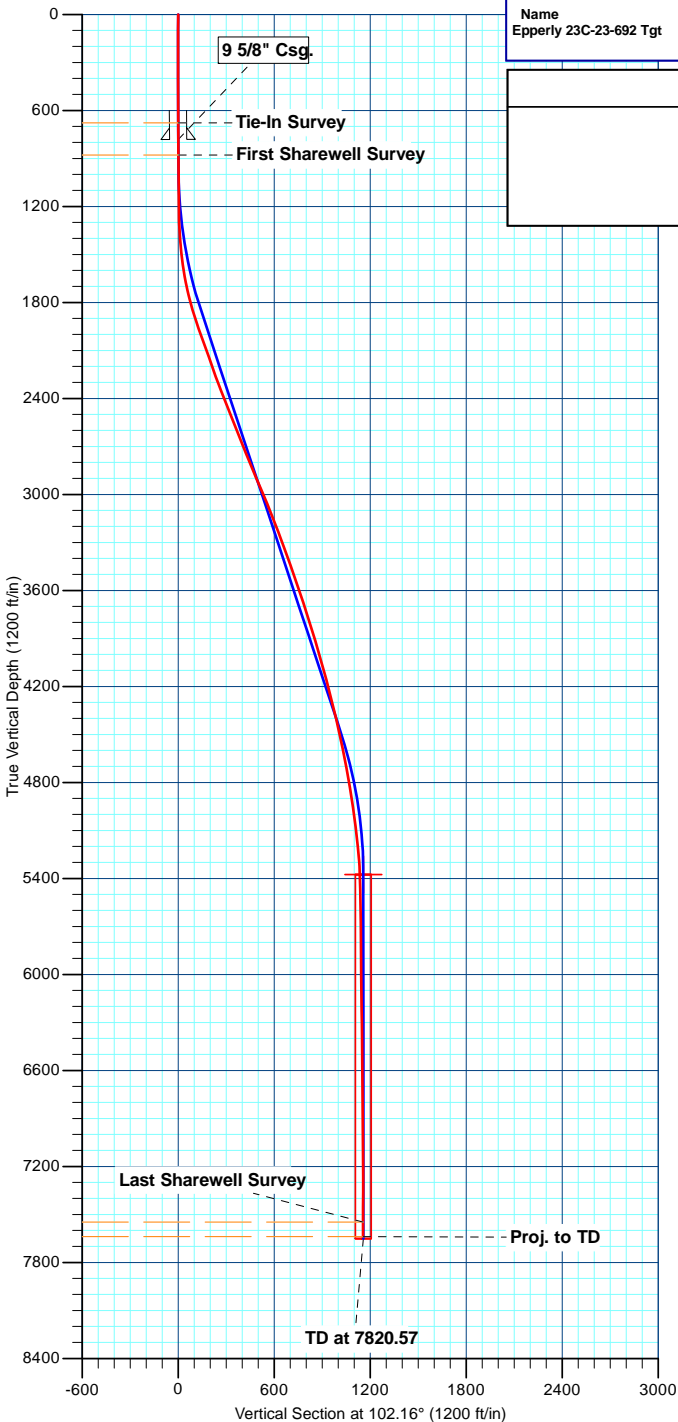
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSDeparture	Annotation	
678.00	678.00	0.340	88.88	1.38	0.68	0.37	2.36	Tie-In Survey
878.99	879.00	0.700	70.40	1.80	2.43	2.00	4.18	First Sharewell Survey
7547.86	7725.02	0.100	239.10	-240.79	1129.83	1155.20	1180.96	Last Sharewell Survey
7638.86	7816.02	0.100	239.10	-240.87	1129.69	1155.08	1181.12	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 23C-23-692/Wellbore #1)

Created By: Bret Wolford Date: 10:40, April 18 2012

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Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 23C-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 23C-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 23C-23-692					
Well Position	+N/-S	0.00 ft	Northing:	1,618,429.94 usft	Latitude:	39° 30' 42.61 N
	+E/-W	0.00 ft	Easting:	2,396,112.63 usft	Longitude:	107° 38' 26.17 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	102.16	

Survey Program	Date	4/18/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	678.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
678.00	7,816.02	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	0.120	265.61	100.00	-0.01	-0.10	-0.10	0.12	0.12	0.00	
200.00	0.130	295.69	200.00	0.03	-0.31	-0.31	0.07	0.01	30.08	
300.00	0.240	357.61	300.00	0.29	-0.42	-0.47	0.21	0.11	61.92	
400.00	0.220	25.91	400.00	0.67	-0.35	-0.48	0.11	-0.02	28.30	
500.00	0.260	47.66	500.00	1.00	-0.10	-0.30	0.10	0.04	21.75	
600.00	0.280	59.75	600.00	1.27	0.28	0.01	0.06	0.02	12.09	
678.00	0.340	88.88	678.00	1.38	0.68	0.37	0.21	0.08	37.35	
879.00	0.700	70.40	878.99	1.80	2.43	2.00	0.20	0.18	-9.19	
970.00	0.300	1.10	969.99	2.22	2.96	2.43	0.72	-0.44	-76.15	

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Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 23C-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 23C-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	0.900	239.10	1,061.98	2.09	2.35	1.85	1.18	0.65	-132.61
1,154.00	0.900	43.10	1,153.98	2.25	2.22	1.70	1.94	0.00	178.26
1,249.00	2.100	99.80	1,248.95	2.50	4.44	3.82	1.87	1.26	59.68
1,344.00	3.300	95.40	1,343.84	1.94	8.88	8.27	1.28	1.26	-4.63
1,440.00	4.800	118.20	1,439.61	-0.21	15.17	14.88	2.26	1.56	23.75
1,535.00	7.300	112.60	1,534.07	-4.41	24.25	24.63	2.70	2.63	-5.89
1,630.00	10.000	108.00	1,627.98	-9.28	37.67	38.78	2.93	2.84	-4.84
1,725.00	12.800	102.50	1,721.10	-14.11	55.79	57.51	3.16	2.95	-5.79
1,820.00	15.300	106.30	1,813.25	-19.91	78.10	80.54	2.80	2.63	4.00
1,915.00	17.400	103.00	1,904.41	-26.62	103.97	107.25	2.42	2.21	-3.47
2,011.00	20.200	100.50	1,995.28	-32.87	134.26	138.17	3.03	2.92	-2.60
2,106.00	20.000	99.70	2,084.49	-38.60	166.40	170.80	0.36	-0.21	-0.84
2,201.00	19.500	101.60	2,173.91	-44.52	197.95	202.89	0.86	-0.53	2.00
2,296.00	20.000	98.40	2,263.32	-50.08	229.56	234.95	1.25	0.53	-3.37
2,391.00	21.400	97.50	2,352.19	-54.72	262.81	268.44	1.51	1.47	-0.95
2,487.01	20.700	97.70	2,441.78	-59.28	296.99	302.81	0.73	-0.73	0.21
2,582.01	22.200	98.60	2,530.20	-64.21	331.38	337.47	1.62	1.58	0.95
2,677.01	22.500	100.50	2,618.06	-70.21	367.00	373.55	0.82	0.32	2.00
2,772.01	20.900	100.50	2,706.33	-76.61	401.53	408.66	1.68	-1.68	0.00
2,867.01	23.100	99.60	2,794.41	-82.81	436.57	444.22	2.34	2.32	-0.95
2,963.01	23.200	100.90	2,882.68	-89.52	473.71	481.94	0.54	0.10	1.35
3,058.01	23.000	101.40	2,970.06	-96.73	510.28	519.21	0.29	-0.21	0.53
3,153.01	22.300	102.80	3,057.73	-104.39	546.05	555.79	0.93	-0.74	1.47
3,249.01	21.500	103.30	3,146.80	-112.47	580.93	591.59	0.86	-0.83	0.52
3,344.01	20.900	105.70	3,235.38	-121.06	614.19	625.91	1.11	-0.63	2.53
3,440.01	19.300	105.70	3,325.53	-129.99	645.95	658.84	1.67	-1.67	0.00
3,535.01	19.400	103.20	3,415.16	-137.84	676.42	690.28	0.88	0.11	-2.63
3,630.01	19.600	99.80	3,504.72	-144.16	707.49	721.98	1.21	0.21	-3.58
3,726.01	19.400	99.10	3,595.21	-149.42	739.10	753.99	0.32	-0.21	-0.73
3,821.01	18.500	99.70	3,685.06	-154.46	769.53	784.80	0.97	-0.95	0.63
3,916.01	17.600	99.30	3,775.38	-159.32	798.56	814.21	0.96	-0.95	-0.42
4,011.01	17.000	98.30	3,866.09	-163.64	826.48	842.41	0.70	-0.63	-1.05
4,106.01	16.300	102.40	3,957.11	-168.51	853.24	869.60	1.44	-0.74	4.32
4,202.01	15.800	102.10	4,049.36	-174.14	879.18	896.14	0.53	-0.52	-0.31
4,297.01	14.900	101.40	4,140.98	-179.27	903.80	921.28	0.97	-0.95	-0.74
4,391.01	14.200	100.50	4,231.96	-183.76	926.98	944.89	0.78	-0.74	-0.96
4,487.01	13.000	99.90	4,325.27	-187.76	949.20	967.45	1.26	-1.25	-0.62
4,582.01	13.000	102.30	4,417.83	-191.87	970.17	988.82	0.57	0.00	2.53
4,678.01	12.600	102.60	4,511.45	-196.46	990.93	1,010.08	0.42	-0.42	0.31
4,773.01	11.900	102.50	4,604.28	-200.84	1,010.61	1,030.24	0.74	-0.74	-0.11
4,868.01	10.900	102.30	4,697.41	-204.87	1,028.95	1,049.02	1.05	-1.05	-0.21
4,964.01	10.000	102.00	4,791.82	-208.54	1,045.97	1,066.43	0.94	-0.94	-0.31
5,059.01	9.100	104.60	4,885.50	-212.15	1,061.31	1,082.18	1.05	-0.95	2.74

Sharewell
Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 23C-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 23C-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	8.400	103.70	4,979.39	-215.68	1,075.32	1,096.63	0.75	-0.74	-0.95	
5,250.01	7.200	109.10	5,074.50	-219.31	1,087.82	1,109.61	1.46	-1.25	5.62	
5,344.01	6.200	115.00	5,167.86	-223.39	1,097.98	1,120.40	1.29	-1.06	6.28	
5,439.01	4.800	123.70	5,262.42	-227.76	1,105.94	1,129.10	1.71	-1.47	9.16	
5,534.01	2.500	115.00	5,357.23	-230.84	1,111.13	1,134.82	2.48	-2.42	-9.16	
5,629.01	1.100	147.50	5,452.18	-232.49	1,113.49	1,137.48	1.77	-1.47	34.21	
5,725.01	1.600	137.70	5,548.15	-234.26	1,114.89	1,139.22	0.57	0.52	-10.21	
5,820.01	0.800	120.80	5,643.13	-235.58	1,116.35	1,140.93	0.91	-0.84	-17.79	
5,915.01	1.100	10.30	5,738.12	-235.02	1,117.09	1,141.53	1.65	0.32	-116.32	
6,011.01	1.400	28.00	5,834.10	-233.08	1,117.80	1,141.82	0.51	0.31	18.44	
6,106.01	1.400	55.60	5,929.07	-231.40	1,119.30	1,142.93	0.70	0.00	29.05	
6,201.01	1.100	48.70	6,024.05	-230.14	1,120.95	1,144.27	0.35	-0.32	-7.26	
6,296.01	0.600	52.60	6,119.04	-229.23	1,122.03	1,145.14	0.53	-0.53	4.11	
6,392.01	1.200	85.10	6,215.03	-228.84	1,123.43	1,146.43	0.80	0.62	33.85	
6,487.01	0.800	95.30	6,310.02	-228.82	1,125.08	1,148.04	0.46	-0.42	10.74	
6,582.01	0.800	128.90	6,405.01	-229.30	1,126.26	1,149.29	0.49	0.00	35.37	
6,678.01	0.500	157.10	6,501.00	-230.10	1,126.94	1,150.13	0.45	-0.31	29.37	
6,773.01	0.900	153.00	6,595.99	-231.15	1,127.44	1,150.84	0.42	0.42	-4.32	
6,868.01	1.400	155.60	6,690.97	-232.87	1,128.26	1,152.00	0.53	0.53	2.74	
6,964.01	0.400	36.20	6,786.97	-233.67	1,128.94	1,152.83	1.70	-1.04	-124.37	
7,058.01	0.300	73.40	6,880.96	-233.33	1,129.37	1,153.18	0.26	-0.11	39.57	
7,154.01	0.400	132.50	6,976.96	-233.49	1,129.86	1,153.69	0.37	0.10	61.56	
7,249.01	1.800	131.30	7,071.94	-234.70	1,131.22	1,155.28	1.47	1.47	-1.26	
7,344.01	1.300	200.90	7,166.92	-236.69	1,131.96	1,156.42	1.91	-0.53	73.26	
7,439.02	1.900	199.90	7,261.88	-239.18	1,131.04	1,156.04	0.63	0.63	-1.05	
7,535.02	0.100	8.00	7,357.86	-240.59	1,130.51	1,155.82	2.08	-1.87	175.10	
7,630.02	0.400	249.30	7,452.86	-240.63	1,130.21	1,155.54	0.48	0.32	-124.95	
7,725.02	0.100	239.10	7,547.86	-240.79	1,129.83	1,155.20	0.32	-0.32	-10.74	
7,816.02	0.100	239.10	7,638.86	-240.87	1,129.69	1,155.08	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
781.30	781.29	9 5/8" Csg.	0.80	1.02	

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 23C-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 23C-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)	
678.00	678.00	1.38	0.68	Tie-In Survey
879.00	878.99	1.80	2.43	First Sharewell Survey
7,725.02	7,547.86	-240.79	1,129.83	Last Sharewell Survey
7,816.02	7,638.86	-240.87	1,129.69	Proj. to TD

Checked By: _____	Approved By: _____	Date: _____
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