

Bill Barrett Corp.

Garfield Co., CO (NAD83)

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

Epperly 24D-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 24D-23-692
Wellbore: Wellbore #1
Design: Wellbore #1
Latitude: 39° 30' 42.37 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 24D-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 24D-23-692

+N/-S	+E/-W	Northing	Ground Level: Easting	5854.01	Latitude	Longitude	Slot
0.00	0.00	1618405.91	2396112.34		39° 30' 42.37 N	107° 38' 26.17 W	

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

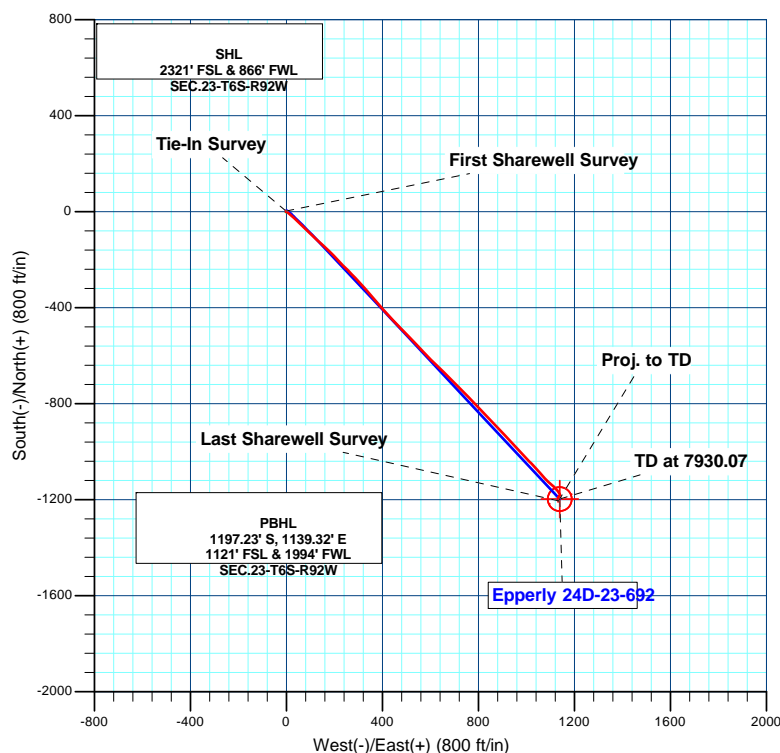
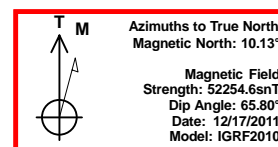
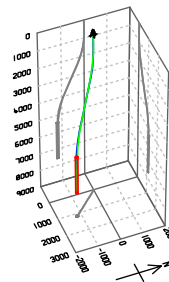
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Epperly 24D-23-692 Tgt	5425.01	-1197.23	1139.33	1617182.17	2397223.14	39° 30' 30.54 N	107° 38' 11.63 W	Circle (Radius: 50.00)

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
679.99	680.00	0.840	28.62	2.96	-1.24	-3.00	4.13	Tie-In Survey
785.98	786.00	0.800	128.10	3.19	-0.28	-2.51	5.64	First Sharewell Survey
7485.18	7821.02	1.700	200.60-1204.56	1133.51	1654.00	1693.23		Last Sharewell Survey
7577.14	7913.02	1.700	200.60-1207.11	1132.55	1655.19	1695.96		Proj. to TD

FORMATION TOP DETAILS

No formation data is available



Design: Wellbore #1 (Epperly 24D-23-692/Wellbore #1)

Created By: Bret Wolford Date: 11:16, March 21 2012

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 24D-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 24D-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 24D-23-692				
Well Position	+N/-S	0.00 ft	Northing:	1,618,405.90 usft	Latitude:	39° 30' 42.37 N
	+E/-W	0.00 ft	Easting:	2,396,112.34 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	136.42	

Survey Program	Date	3/20/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	680.00	Survey #1 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
680.00	7,913.02	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	0.250	298.91	100.00	0.11	-0.19	-0.21	0.25	0.25	0.00	
200.00	0.220	302.52	200.00	0.31	-0.54	-0.60	0.03	-0.03	3.61	
300.00	0.380	330.11	300.00	0.70	-0.87	-1.11	0.21	0.16	27.59	
400.00	0.410	336.83	400.00	1.32	-1.18	-1.77	0.06	0.03	6.72	
500.00	0.490	312.34	499.99	1.94	-1.63	-2.53	0.21	0.08	-24.49	
600.00	0.310	62.69	599.99	2.35	-1.71	-2.88	0.66	-0.18	110.35	
680.00	0.840	28.62	679.99	2.96	-1.24	-3.00	0.76	0.66	-42.59	
786.00	0.800	128.10	785.98	3.19	-0.28	-2.51	1.18	-0.04	93.85	
879.00	3.500	141.10	878.91	0.58	2.01	0.97	2.93	2.90	13.98	

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Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 24D-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 24D-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	5.500	131.90	969.62	-4.50	7.00	8.08	2.33	2.20	-10.11
1,062.00	6.600	123.30	1,061.11	-10.34	14.70	17.63	1.55	1.20	-9.35
1,154.00	6.100	135.30	1,152.55	-16.72	22.56	27.67	1.54	-0.54	13.04
1,249.00	7.600	136.10	1,246.87	-24.84	30.47	39.00	1.58	1.58	0.84
1,344.00	9.800	131.40	1,340.77	-34.71	40.89	53.33	2.43	2.32	-4.95
1,440.00	12.000	132.50	1,435.04	-46.86	54.38	71.43	2.30	2.29	1.15
1,535.00	14.200	133.60	1,527.56	-61.57	70.10	92.92	2.33	2.32	1.16
1,630.00	16.100	134.40	1,619.25	-78.82	87.95	117.73	2.01	2.00	0.84
1,725.00	18.200	134.60	1,710.02	-98.45	107.93	145.72	2.21	2.21	0.21
1,820.00	19.500	132.40	1,799.93	-119.56	130.20	176.37	1.56	1.37	-2.32
1,915.00	19.500	131.70	1,889.48	-140.80	153.75	207.99	0.25	0.00	-0.74
2,011.00	20.000	133.70	1,979.83	-162.81	177.58	240.36	0.88	0.52	2.08
2,106.00	21.800	137.50	2,068.58	-187.04	201.25	274.23	2.37	1.89	4.00
2,201.00	24.600	135.30	2,155.89	-214.10	227.08	311.64	3.08	2.95	-2.32
2,296.00	27.400	135.30	2,241.27	-243.70	256.37	353.27	2.95	2.95	0.00
2,391.00	28.800	136.80	2,325.07	-275.92	287.41	398.02	1.65	1.47	1.58
2,487.01	30.600	138.40	2,408.46	-311.06	319.47	445.56	2.05	1.87	1.67
2,582.01	30.000	138.30	2,490.48	-346.87	351.32	493.47	0.63	-0.63	-0.11
2,677.01	30.100	139.00	2,572.71	-382.58	382.75	541.00	0.38	0.11	0.74
2,772.01	30.000	139.60	2,654.94	-418.65	413.77	588.51	0.33	-0.11	0.63
2,867.01	29.300	135.50	2,737.51	-453.32	445.46	635.47	2.26	-0.74	-4.32
2,963.01	29.200	136.00	2,821.27	-486.92	478.19	682.38	0.27	-0.10	0.52
3,058.01	28.300	136.00	2,904.56	-519.79	509.93	728.07	0.95	-0.95	0.00
3,154.01	28.000	136.70	2,989.21	-552.56	541.20	773.36	0.46	-0.31	0.73
3,249.01	27.700	136.40	3,073.20	-584.78	571.72	817.74	0.35	-0.32	-0.32
3,344.01	26.700	136.30	3,157.70	-616.20	601.69	861.16	1.05	-1.05	-0.11
3,440.01	27.900	133.50	3,243.01	-647.25	632.88	905.17	1.83	1.25	-2.92
3,535.01	26.600	133.30	3,327.46	-677.14	664.49	948.60	1.37	-1.37	-0.21
3,630.01	26.000	135.40	3,412.63	-706.55	694.59	990.66	1.17	-0.63	2.21
3,726.01	26.600	134.50	3,498.69	-736.60	724.69	1,033.18	0.75	0.62	-0.94
3,821.01	27.200	136.00	3,583.41	-767.13	754.94	1,076.15	0.95	0.63	1.58
3,916.01	26.500	137.10	3,668.17	-798.27	784.46	1,119.06	0.90	-0.74	1.16
4,011.01	27.000	136.80	3,753.01	-829.52	813.65	1,161.81	0.55	0.53	-0.32
4,106.01	27.200	137.40	3,837.58	-861.22	843.10	1,205.09	0.36	0.21	0.63
4,202.01	26.300	135.90	3,923.30	-892.64	872.76	1,248.29	1.17	-0.94	-1.56
4,297.01	24.700	135.90	4,009.05	-922.01	901.22	1,289.19	1.68	-1.68	0.00
4,392.01	22.900	135.70	4,095.96	-949.50	927.94	1,327.52	1.90	-1.89	-0.21
4,487.01	20.800	136.50	4,184.13	-974.96	952.46	1,362.87	2.23	-2.21	0.84
4,583.01	18.500	137.50	4,274.54	-998.56	974.49	1,395.15	2.42	-2.40	1.04
4,678.01	16.800	138.30	4,365.06	-1,019.93	993.81	1,423.94	1.81	-1.79	0.84
4,773.01	15.300	136.20	4,456.36	-1,039.22	1,011.62	1,450.20	1.69	-1.58	-2.21
4,869.01	13.900	137.50	4,549.26	-1,056.87	1,028.17	1,474.40	1.50	-1.46	1.35
4,964.01	12.200	137.50	4,641.80	-1,072.68	1,042.67	1,495.84	1.79	-1.79	0.00

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 24D-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 24D-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	11.400	137.30	4,734.79	-1,086.98	1,055.81	1,515.27	0.84	-0.84	-0.21	
5,154.01	10.900	139.50	4,828.00	-1,100.71	1,068.02	1,533.63	0.69	-0.53	2.32	
5,250.01	10.100	136.40	4,922.39	-1,113.71	1,079.72	1,551.11	1.02	-0.83	-3.23	
5,345.01	11.900	131.10	5,015.64	-1,126.18	1,092.84	1,569.19	2.17	1.89	-5.58	
5,440.01	10.600	132.10	5,108.82	-1,138.48	1,106.71	1,587.66	1.38	-1.37	1.05	
5,536.01	9.600	135.30	5,203.33	-1,150.09	1,118.89	1,604.47	1.19	-1.04	3.33	
5,631.01	8.800	140.10	5,297.11	-1,161.30	1,129.12	1,619.64	1.17	-0.84	5.05	
5,726.01	6.700	152.70	5,391.24	-1,171.80	1,136.33	1,632.21	2.83	-2.21	13.26	
5,821.01	5.100	157.50	5,485.74	-1,180.63	1,140.48	1,641.47	1.76	-1.68	5.05	
5,917.01	2.500	178.90	5,581.52	-1,186.66	1,142.16	1,647.00	3.04	-2.71	22.29	
6,012.01	1.000	235.70	5,676.48	-1,189.20	1,141.51	1,648.39	2.24	-1.58	59.79	
6,107.01	1.500	348.40	5,771.47	-1,188.45	1,140.58	1,647.21	2.21	0.53	118.63	
6,202.01	1.200	358.10	5,866.44	-1,186.24	1,140.30	1,645.41	0.40	-0.32	10.21	
6,298.01	0.700	316.70	5,962.43	-1,184.81	1,139.86	1,644.07	0.85	-0.52	-43.12	
6,393.01	0.700	272.90	6,057.42	-1,184.36	1,138.88	1,643.07	0.55	0.00	-46.11	
6,488.01	0.900	221.50	6,152.41	-1,184.88	1,137.81	1,642.71	0.75	0.21	-54.11	
6,583.01	1.300	201.30	6,247.40	-1,186.45	1,136.92	1,643.23	0.58	0.42	-21.26	
6,679.01	1.900	212.30	6,343.36	-1,188.81	1,135.68	1,644.08	0.70	0.62	11.46	
6,774.01	0.600	34.30	6,438.35	-1,189.73	1,135.12	1,644.36	2.63	-1.37	-187.37	
6,869.01	0.400	58.40	6,533.34	-1,189.14	1,135.68	1,644.33	0.30	-0.21	25.37	
6,965.01	0.100	153.60	6,629.34	-1,189.04	1,136.00	1,644.48	0.44	-0.31	99.17	
7,060.01	0.900	205.70	6,724.34	-1,189.79	1,135.71	1,644.82	0.89	0.84	54.84	
7,155.01	1.100	179.60	6,819.32	-1,191.37	1,135.40	1,645.75	0.52	0.21	-27.47	
7,250.01	1.800	177.70	6,914.29	-1,193.78	1,135.46	1,647.54	0.74	0.74	-2.00	
7,345.01	0.500	161.50	7,009.27	-1,195.66	1,135.65	1,649.03	1.40	-1.37	-17.05	
7,440.02	0.900	181.50	7,104.27	-1,196.80	1,135.77	1,649.94	0.49	0.42	21.05	
7,536.02	1.500	192.30	7,200.25	-1,198.78	1,135.48	1,651.17	0.67	0.62	11.25	
7,631.02	0.900	207.80	7,295.22	-1,200.66	1,134.87	1,652.11	0.71	-0.63	16.32	
7,726.02	1.200	194.90	7,390.21	-1,202.28	1,134.26	1,652.87	0.40	0.32	-13.58	
7,821.02	1.700	200.60	7,485.18	-1,204.56	1,133.51	1,654.00	0.55	0.53	6.00	
7,913.02	1.700	200.60	7,577.14	-1,207.11	1,132.55	1,655.19	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
759.70	759.68	9 5/8" Csg.	0.80	1.02	

Sharewell

Survey Report

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Epperly 24D-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 24D-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)	
680.00	679.99	2.96	-1.24	Tie-In Survey
786.00	785.98	3.19	-0.28	First Sharewell Survey
7,821.02	7,485.18	-1,204.56	1,133.51	Last Sharewell Survey
7,913.02	7,577.14	-1,207.11	1,132.55	Proj. to TD

Checked By: _____ Approved By: _____ Date: _____