

# **Bill Barrett Corp. (II)**

**Weld Co., CO (NAD 83)**

**Sec.23-T6N-R62W**

**Pappenheim 6-62-26-8H**

**OH**

**Design: OH**

## **Standard Survey Report**

**06 May, 2013**





Bill Barrett Corp. (II)  
 Project: Weld Co., CO (NAD 83)  
 Site: Sec.23-T6N-R62W  
 Well: Pappenheim 6-62-26-8H  
 Wellbore: OH  
 Design: Plan #3 22Apr13 RG  
 Lat: 40° 27' 58.90 N  
 Long: 104° 17' 50.71 W  
 Pad GL: 4735.00  
 RKB:16' KB @ 4751.00ft (Cade 24)



#### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.000	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
1961.96	14.429	192.71	1951.83	-117.54	-26.51	1.50	192.71	-3.78	Start 2680.92 hold at 1961.96 MD
4642.88	14.429	192.71	4548.17	-769.22	-173.49	0.00	0.00	-24.77	Start Drop -1.50
5604.84	0.000	0.00	5500.00	-886.76	-200.00	1.50	180.00	-28.55	Start 356.55 hold at 5604.84 MD
5961.39	0.000	0.00	5856.55	-886.76	-200.00	0.00	0.00	-28.55	KOP / Start Build 12.00
6714.80	90.409	88.60	6334.00	-875.00	280.73	12.00	88.60	441.26	EOC / Start 3779.99 hold at 6714.80 MD
10494.79	90.409	88.60	6307.02	-782.58	4059.49	0.00	0.00	4134.23	TD at 10494.79

#### PROJECT DETAILS: Weld Co., CO (NAD 83)

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

#### WELL DETAILS: Pappenheim 6-62-26-8H

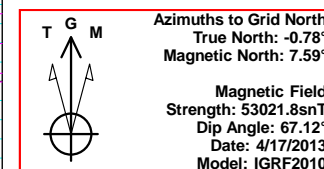
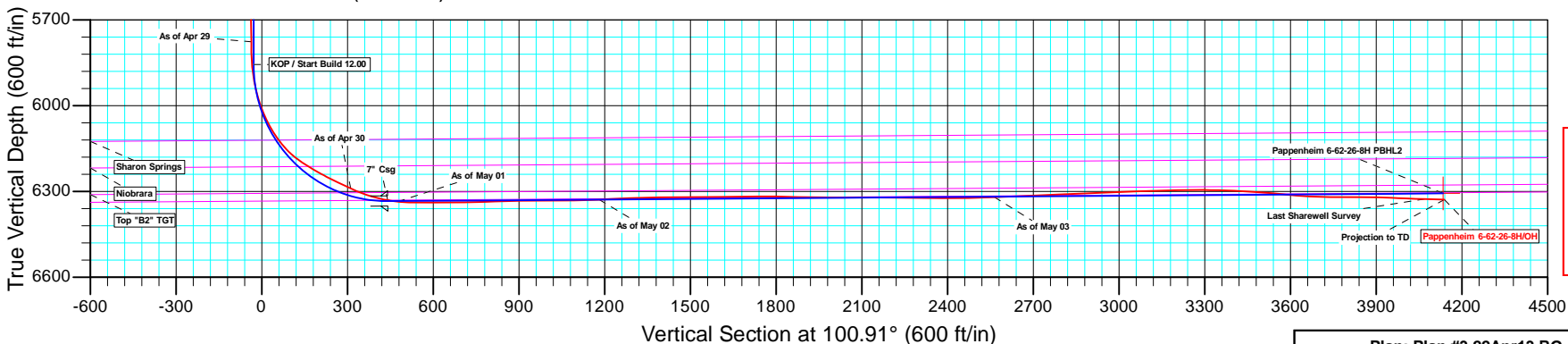
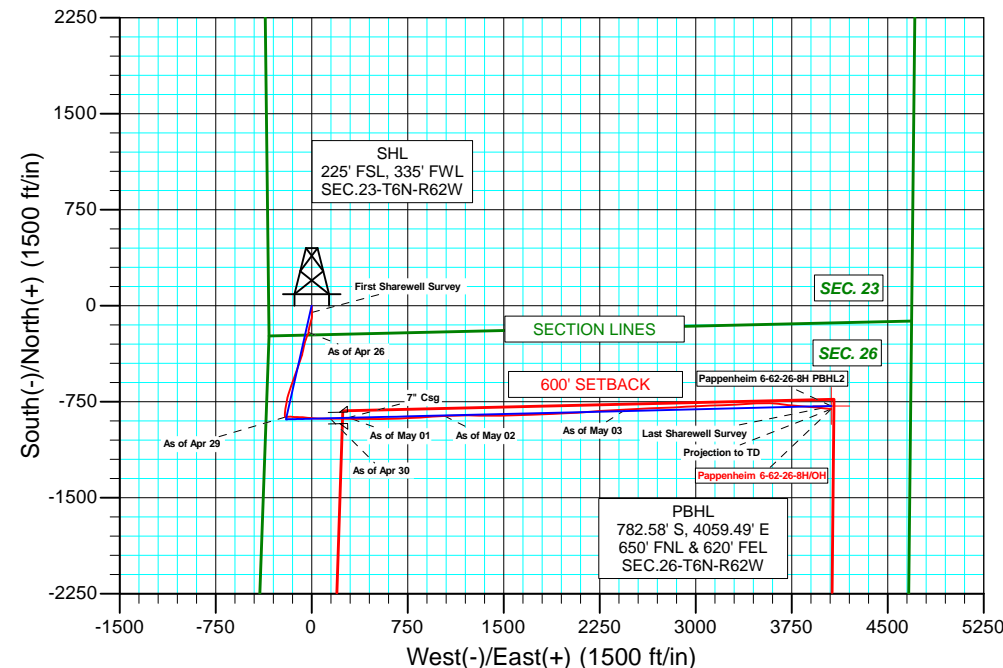
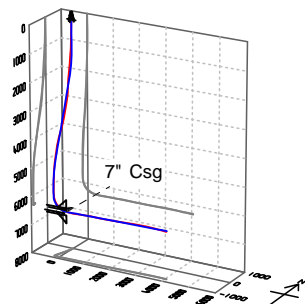
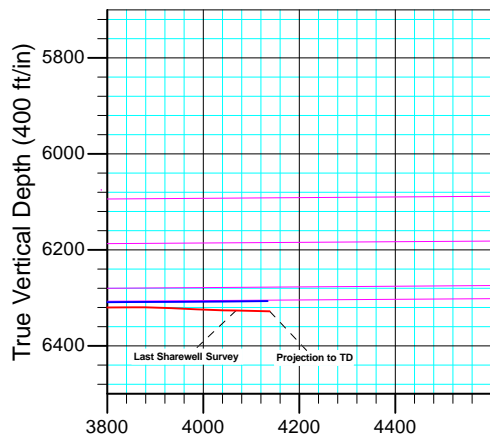
+N/-S	+E/-W	Northing	Ground Level: Easting	4735.00 Latitude	Longitude	Slot
0.00	0.00	1415004.16	3334592.88	40° 27' 58.90 N	104° 17' 50.71 W	

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL2	6307.02	-782.58	4059.49	40° 27' 50.62 N	104° 16' 58.33 W	Point

#### CASING DETAILS

TVD	MD	Name
6334.00	6714.80	7" Csg



Plan: Plan #3 22Apr13 RG (Pappenheim 6-62-26-8H/OH)

Created By: Rolando Garza

Date: 6:18, May 06 2013

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Pappenheim 6-62-26-8H
<b>Project:</b>	Weld Co., CO (NAD 83)	<b>TVD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Site:</b>	Sec.23-T6N-R62W	<b>MD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Well:</b>	Pappenheim 6-62-26-8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	CompassVM

<b>Project</b>	Weld Co., CO (NAD 83)		
<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 Northern Zone		

<b>Site</b>	Sec.23-T6N-R62W		
<b>Site Position:</b>		<b>Northing:</b>	1,415,004.17 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,334,592.88 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	1.10 ft
		<b>Latitude:</b>	40° 27' 58.90 N
		<b>Longitude:</b>	104° 17' 50.71 W
		<b>Grid Convergence:</b>	0.78 °

<b>Well</b>	Pappenheim 6-62-26-8H		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	OH		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
			(°)
	IGRF2010	4/17/2013	8.37
			<b>Dip Angle</b>
			(°)
			67.12
			<b>Field Strength</b>
			(nT)
			53,022

<b>Design</b>	OH		
<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			<b>Direction</b>
			(°)
			100.91

<b>Survey Program</b>	<b>Date</b>	5/6/2013		
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
887.00	10,475.00	MWD (OH)	MWD	MWD - Standard

<b>Survey</b>									
<b>Measured</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Vertical</b>	<b>Dogleg</b>	<b>Build</b>	<b>Turn</b>
<b>Depth</b>	<b>(°)</b>	<b>(°)</b>	<b>Depth</b>	<b>(ft)</b>	<b>(ft)</b>	<b>Section</b>	<b>Rate</b>	<b>Rate</b>	<b>Rate</b>
<b>(ft)</b>	<b>(°)</b>	<b>(°)</b>	<b>(ft)</b>	<b>(ft)</b>	<b>(ft)</b>	<b>(ft)</b>	<b>(°/100ft)</b>	<b>(°/100ft)</b>	<b>(°/100ft)</b>
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
887.00	6.700	177.60	884.98	-51.76	2.17	11.93	0.76	0.76	0.00
<b>First Sharewell Survey</b>									
979.00	7.000	178.60	976.32	-62.72	2.53	14.36	0.35	0.33	1.09
1,071.00	7.100	177.20	1,067.63	-74.01	2.95	16.90	0.22	0.11	-1.52
1,163.00	6.900	189.70	1,158.95	-85.13	2.29	18.36	1.67	-0.22	13.59
1,256.00	7.100	193.10	1,251.25	-96.24	0.05	18.26	0.49	0.22	3.66
1,348.00	7.500	193.80	1,342.51	-107.61	-2.67	17.74	0.45	0.43	0.76
1,442.00	8.000	194.50	1,435.65	-119.90	-5.77	17.02	0.54	0.53	0.74
1,536.00	8.000	193.60	1,528.73	-132.59	-8.95	16.31	0.13	0.00	-0.96
1,662.00	7.200	191.40	1,653.63	-148.85	-12.57	15.83	0.68	-0.63	-1.75

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Pappenheim 6-62-26-8H
<b>Project:</b>	Weld Co., CO (NAD 83)	<b>TVD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Site:</b>	Sec.23-T6N-R62W	<b>MD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Well:</b>	Pappenheim 6-62-26-8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<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)
1,757.00	6.800	195.80	1,747.92	-160.10	-15.28	15.30	0.70	-0.42	4.63
1,851.00	6.900	193.40	1,841.25	-170.95	-18.10	14.58	0.32	0.11	-2.55
1,946.00	6.200	193.70	1,935.63	-181.48	-20.64	14.08	0.74	-0.74	0.32
2,041.00	5.200	190.80	2,030.16	-190.69	-22.66	13.84	1.10	-1.05	-3.05
2,135.00	4.700	178.10	2,123.81	-198.73	-23.33	14.70	1.28	-0.53	-13.51
2,230.00	5.200	188.20	2,218.46	-206.88	-23.82	15.77	1.06	0.53	10.63
2,232.00	5.183	188.23	2,220.45	-207.06	-23.84	15.78	0.86	-0.85	1.26
As of Apr 26									
2,324.00	4.400	189.60	2,312.13	-214.65	-25.03	16.05	0.86	-0.85	1.49
2,419.00	5.500	209.80	2,406.78	-222.19	-27.90	14.66	2.15	1.16	21.26
2,513.00	8.000	207.10	2,500.12	-231.93	-33.12	11.38	2.68	2.66	-2.87
2,608.00	9.100	202.00	2,594.06	-244.78	-38.94	8.09	1.41	1.16	-5.37
2,702.00	10.200	197.40	2,686.73	-259.61	-44.22	5.72	1.43	1.17	-4.89
2,797.00	12.200	196.10	2,779.92	-277.29	-49.52	3.86	2.12	2.11	-1.37
2,892.00	14.500	194.30	2,872.35	-298.46	-55.24	2.25	2.46	2.42	-1.89
2,987.00	15.500	194.90	2,964.11	-322.25	-61.44	0.66	1.07	1.05	0.63
3,082.00	15.400	192.20	3,055.68	-346.85	-67.37	-0.51	0.76	-0.11	-2.84
3,176.00	15.000	190.80	3,146.39	-371.00	-72.29	-0.76	0.58	-0.43	-1.49
3,271.00	15.200	196.70	3,238.11	-395.00	-78.17	-2.00	1.63	0.21	6.21
3,366.00	14.900	201.00	3,329.86	-418.33	-86.13	-5.39	1.22	-0.32	4.53
3,460.00	16.700	199.30	3,420.30	-442.37	-94.92	-9.48	1.98	1.91	-1.81
3,555.00	18.800	198.70	3,510.78	-469.75	-104.34	-13.55	2.22	2.21	-0.63
3,649.00	20.800	199.20	3,599.21	-499.86	-114.69	-18.01	2.14	2.13	0.53
3,744.00	22.300	199.30	3,687.57	-532.81	-126.19	-23.07	1.58	1.58	0.11
3,839.00	20.900	199.80	3,775.90	-565.76	-137.89	-28.32	1.49	-1.47	0.53
3,933.00	20.000	199.40	3,863.97	-596.70	-148.91	-33.28	0.97	-0.96	-0.43
4,028.00	18.000	199.50	3,953.79	-625.86	-159.21	-37.87	2.11	-2.11	0.11
4,122.00	15.900	198.70	4,043.70	-651.75	-168.18	-41.79	2.25	-2.23	-0.85
4,217.00	13.600	199.80	4,135.57	-674.59	-176.14	-45.28	2.44	-2.42	1.16
4,311.00	13.000	197.10	4,227.05	-695.09	-182.99	-48.13	0.92	-0.64	-2.87
4,406.00	12.700	189.50	4,319.67	-715.61	-187.86	-49.02	1.81	-0.32	-8.00
4,501.00	11.800	191.20	4,412.51	-735.44	-191.47	-48.82	1.02	-0.95	1.79
4,595.00	10.200	194.00	4,504.78	-752.94	-195.35	-49.31	1.79	-1.70	2.98
4,690.00	10.000	192.90	4,598.31	-769.14	-199.23	-50.05	0.29	-0.21	-1.16
4,784.00	9.300	187.70	4,690.98	-784.63	-202.07	-49.91	1.19	-0.74	-5.53
4,879.00	8.600	184.50	4,784.82	-799.32	-203.65	-48.69	0.90	-0.74	-3.37
4,974.00	8.100	186.80	4,878.82	-813.04	-205.00	-47.42	0.63	-0.53	2.42
5,068.00	7.500	192.40	4,971.95	-825.61	-207.10	-47.10	1.03	-0.64	5.96
5,163.00	5.600	187.10	5,066.32	-836.27	-209.01	-46.95	2.10	-2.00	-5.58
5,257.00	4.600	182.70	5,159.95	-844.58	-209.75	-46.11	1.14	-1.06	-4.68
5,351.00	3.700	177.30	5,253.70	-851.38	-209.79	-44.86	1.04	-0.96	-5.74
5,446.00	2.900	173.40	5,348.55	-856.83	-209.37	-43.41	0.87	-0.84	-4.11
5,541.00	2.200	166.60	5,443.45	-860.99	-208.67	-41.94	0.80	-0.74	-7.16

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Pappenheim 6-62-26-8H
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<b>Site:</b>	Sec.23-T6N-R62W	<b>MD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Well:</b>	Pappenheim 6-62-26-8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<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)
5,635.00	1.800	161.90	5,537.39	-864.15	-207.79	-40.48	0.46	-0.43	-5.00
5,729.00	1.400	154.40	5,631.36	-866.59	-206.84	-39.08	0.48	-0.43	-7.98
5,823.00	1.500	141.40	5,725.33	-868.58	-205.57	-37.46	0.36	0.11	-13.83
5,874.00	1.500	130.40	5,776.31	-869.54	-204.65	-36.37	0.56	0.00	-21.57
As of Apr 29									
5,886.00	1.500	136.00	5,788.31	-869.75	-204.42	-36.11	1.22	0.00	46.67
5,917.00	1.500	131.20	5,819.29	-870.31	-203.83	-35.43	0.41	0.00	-15.48
5,949.00	2.900	96.30	5,851.27	-870.68	-202.71	-34.26	5.87	4.38	-109.06
5,980.00	7.000	82.90	5,882.15	-870.53	-200.06	-31.68	13.65	13.23	-43.23
6,012.00	11.100	73.70	5,913.75	-869.42	-195.16	-27.08	13.55	12.81	-28.75
6,043.00	15.000	72.80	5,943.94	-867.40	-188.46	-20.89	12.60	12.58	-2.90
6,075.00	18.000	83.30	5,974.63	-865.59	-179.59	-12.52	13.18	9.38	32.81
6,106.00	20.800	91.90	6,003.87	-865.22	-169.33	-2.51	12.88	9.03	27.74
6,138.00	23.200	96.50	6,033.54	-866.12	-157.39	9.38	9.23	7.50	14.38
6,169.00	27.200	96.30	6,061.58	-867.59	-144.27	22.54	12.91	12.90	-0.65
6,201.00	31.600	94.20	6,089.46	-869.01	-128.63	38.16	14.12	13.75	-6.56
6,232.00	35.700	91.90	6,115.26	-869.90	-111.49	55.17	13.85	13.23	-7.42
6,264.00	41.100	91.50	6,140.33	-870.49	-91.63	74.78	16.89	16.88	-1.25
6,295.00	46.200	92.90	6,162.75	-871.32	-70.25	95.93	16.74	16.45	4.52
6,327.00	52.700	96.90	6,183.55	-873.44	-46.05	120.09	22.42	20.31	12.50
6,358.00	56.800	93.80	6,201.44	-875.78	-20.86	145.28	15.54	13.23	-10.00
6,390.00	59.000	93.60	6,218.44	-877.53	6.19	172.17	6.90	6.88	-0.63
6,421.00	60.900	93.40	6,233.96	-879.17	32.98	198.78	6.15	6.13	-0.65
6,453.00	62.700	91.50	6,249.09	-880.37	61.15	226.67	7.68	5.63	-5.94
6,484.00	64.300	91.10	6,262.92	-881.00	88.88	254.02	5.29	5.16	-1.29
6,516.00	65.300	90.50	6,276.54	-881.40	117.84	282.53	3.56	3.13	-1.88
6,548.00	66.000	90.60	6,289.74	-881.68	146.99	311.20	2.21	2.19	0.31
As of Apr 30									
6,579.00	67.900	89.90	6,301.87	-881.80	175.51	339.23	6.47	6.13	-2.26
6,610.00	71.600	90.30	6,312.60	-881.85	204.59	367.80	12.00	11.94	1.29
6,642.00	76.300	89.90	6,321.45	-881.91	235.33	398.00	14.74	14.69	-1.25
6,673.00	78.500	90.90	6,328.21	-882.12	265.58	427.74	7.76	7.10	3.23
6,705.00	81.600	91.10	6,333.74	-882.67	297.09	458.78	9.71	9.69	0.63
6,723.00	84.500	91.30	6,335.91	-883.04	314.96	476.39	16.15	16.11	1.11
As of May 01									
6,785.00	89.600	89.80	6,339.10	-883.64	376.85	537.28	8.57	8.23	-2.42
6,817.00	90.300	90.80	6,339.13	-883.80	408.85	568.73	3.81	2.19	3.13
6,848.00	90.200	90.50	6,339.00	-884.15	439.84	599.24	1.02	-0.32	-0.97
6,880.00	90.100	90.60	6,338.91	-884.46	471.84	630.71	0.44	-0.31	0.31
6,974.00	90.900	89.10	6,338.09	-884.22	565.84	722.96	1.81	0.85	-1.60
7,069.00	92.600	87.90	6,335.19	-881.73	660.75	815.69	2.19	1.79	-1.26
7,164.00	90.600	86.90	6,332.54	-877.42	755.61	908.02	2.35	-2.11	-1.05
7,258.00	90.100	86.20	6,331.97	-871.77	849.44	999.08	0.92	-0.53	-0.74
7,353.00	90.300	85.60	6,331.63	-864.97	944.20	1,090.84	0.67	0.21	-0.63

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Pappenheim 6-62-26-8H
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<b>Well:</b>	Pappenheim 6-62-26-8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<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)	
7,447.00	92.800	87.80	6,329.09	-859.56	1,037.99	1,181.92	3.54	2.66	2.34	
As of May 02										
7,542.00	92.700	89.00	6,324.53	-856.92	1,132.84	1,274.55	1.27	-0.11	1.26	
7,636.00	91.400	90.40	6,321.17	-856.42	1,226.78	1,366.70	2.03	-1.38	1.49	
7,731.00	90.100	90.70	6,319.93	-857.34	1,321.76	1,460.14	1.40	-1.37	0.32	
7,825.00	90.500	89.70	6,319.43	-857.66	1,415.76	1,552.50	1.15	0.43	-1.06	
7,920.00	90.500	89.50	6,318.61	-857.00	1,510.75	1,645.65	0.21	0.00	-0.21	
8,015.00	90.400	88.60	6,317.86	-855.43	1,605.74	1,738.62	0.95	-0.11	-0.95	
8,109.00	88.900	86.90	6,318.43	-851.74	1,699.66	1,830.14	2.41	-1.60	-1.81	
8,204.00	88.700	87.20	6,320.42	-846.85	1,794.51	1,922.36	0.38	-0.21	0.32	
8,298.00	90.100	88.70	6,321.41	-843.49	1,888.44	2,013.95	2.18	1.49	1.60	
8,393.00	89.900	86.80	6,321.41	-839.76	1,983.36	2,106.45	2.01	-0.21	-2.00	
8,487.00	89.800	86.60	6,321.65	-834.35	2,077.21	2,197.58	0.24	-0.11	-0.21	
8,582.00	89.000	86.20	6,322.65	-828.38	2,172.01	2,289.54	0.94	-0.84	-0.42	
8,677.00	89.400	85.30	6,323.97	-821.34	2,266.74	2,381.22	1.04	0.42	-0.95	
8,771.00	91.500	86.10	6,323.24	-814.29	2,360.47	2,471.92	2.39	2.23	0.85	
8,866.00	92.300	87.20	6,320.09	-808.75	2,455.25	2,563.94	1.43	0.84	1.16	
As of May 03										
8,959.00	92.000	88.00	6,316.60	-804.85	2,548.10	2,654.38	0.92	-0.32	0.86	
9,054.00	92.900	87.90	6,312.54	-801.46	2,642.95	2,746.87	0.95	0.95	-0.11	
9,148.00	92.100	87.80	6,308.44	-797.94	2,736.80	2,838.35	0.86	-0.85	-0.11	
9,243.00	92.200	87.60	6,304.87	-794.13	2,831.65	2,930.78	0.24	0.11	-0.21	
9,337.00	91.900	86.10	6,301.51	-788.96	2,925.45	3,021.90	1.63	-0.32	-1.60	
9,431.00	92.600	86.80	6,297.82	-783.15	3,019.20	3,112.85	1.05	0.74	0.74	
9,526.00	90.200	88.70	6,295.50	-779.42	3,114.08	3,205.32	3.22	-2.53	2.00	
9,620.00	90.200	88.20	6,295.17	-776.88	3,208.05	3,297.10	0.53	0.00	-0.53	
9,714.00	87.200	86.50	6,297.30	-772.53	3,301.91	3,388.44	3.67	-3.19	-1.81	
9,809.00	86.700	86.20	6,302.36	-766.50	3,396.58	3,480.26	0.61	-0.53	-0.32	
9,841.00	85.800	86.80	6,304.45	-764.55	3,428.45	3,511.19	3.38	-2.81	1.88	
9,904.00	84.300	86.10	6,309.89	-760.66	3,491.10	3,571.96	2.63	-2.38	-1.11	
9,998.00	86.500	93.80	6,317.44	-760.59	3,584.72	3,663.88	8.49	2.34	8.19	
10,093.00	90.400	97.10	6,320.01	-769.61	3,679.22	3,758.38	5.38	4.11	3.47	
10,187.00	89.900	95.60	6,319.76	-780.00	3,772.64	3,852.08	1.68	-0.53	-1.60	
10,282.00	87.100	93.50	6,322.25	-787.54	3,867.29	3,946.45	3.68	-2.95	-2.21	
10,405.00	88.700	96.30	6,326.75	-798.04	3,989.74	4,068.67	2.62	1.30	2.28	
Last Sharewell Survey										
10,472.57	88.700	96.30	6,328.29	-805.45	4,056.89	4,136.01	0.00	0.00	0.00	
Pappenheim 6-62-26-8H PBHL3										
10,475.00	88.700	96.30	6,328.34	-805.72	4,059.30	4,138.43	0.00	0.00	0.00	
Projection to TD										

<b>Company:</b>	Bill Barrett Corp. (II)	<b>Local Co-ordinate Reference:</b>	Well Pappenheim 6-62-26-8H
<b>Project:</b>	Weld Co., CO (NAD 83)	<b>TVD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Site:</b>	Sec.23-T6N-R62W	<b>MD Reference:</b>	RKB:16' @ 4751.00ft (Cade 24)
<b>Well:</b>	Pappenheim 6-62-26-8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	CompassVM

#### Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
887.00	884.98	-51.76	2.17	First Sharewell Survey
2,232.00	2,220.45	-207.06	-23.84	As of Apr 26
5,874.00	5,776.31	-869.54	-204.65	As of Apr 29
6,548.00	6,289.74	-881.68	146.99	As of Apr 30
6,723.00	6,335.91	-883.04	314.96	As of May 01
7,447.00	6,329.09	-859.56	1,037.99	As of May 02
8,866.00	6,320.09	-808.75	2,455.25	As of May 03
10,405.00	6,326.75	-798.04	3,989.74	Last Sharewell Survey
10,475.00	6,328.34	-805.72	4,059.30	Projection to TD

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