



Bill Barrett Corp. (II)
 Project: Weld Co., CO (NAD 83)
 Site: Sec.23-T6N-R62W
 Well: Pappenheim 6-62-23-0659BH
 Wellbore: OH
 Design: Plan #4 4Jun13 RG
 Lat: 40° 28' 46.60 N
 Long: 104° 17' 29.10 W
 Pad GL: 4699.00
 RKB:16' @ 4715.00ft (Cade 24)



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Annotation
6793.00	87.500	175.20	6366.44	-118.11	1369.89	0.00	0.00	516.51	Tie In - Start 54.00 hold at 6793.00 MD
6847.00	87.500	175.20	6368.80	-171.87	1374.41	0.00	0.00	569.21	Start DLS 1.04 TFO 64.69
7405.97	90.000	180.47	6381.00	-730.07	1395.50	1.04	64.69	1108.85	Start 3616.49 hold at 7405.97 MD
11022.46	90.000	180.47	6381.00	-4346.44	1365.83	0.00	0.00	4555.92	TD at 11022.46

WELL DETAILS: Pappenheim 6-62-23-0659BH

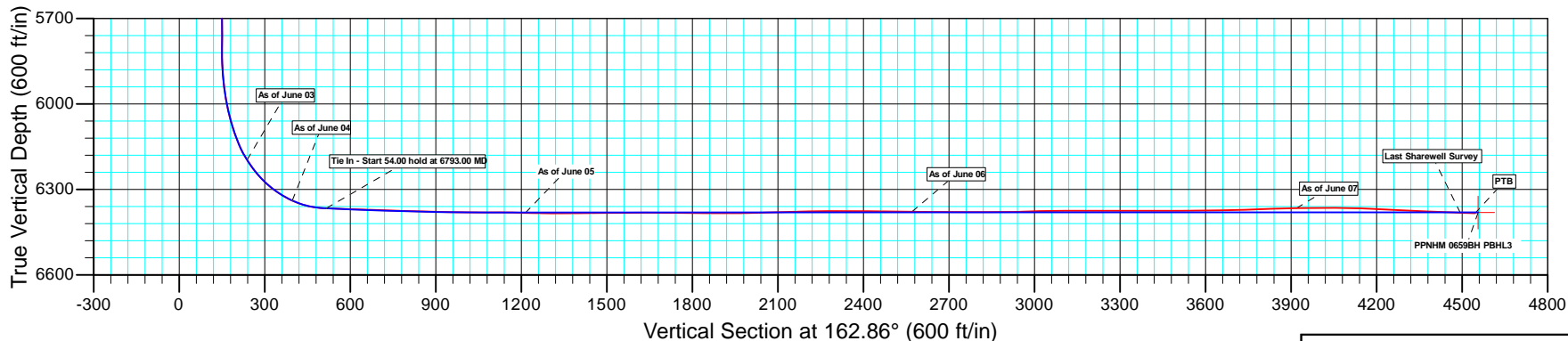
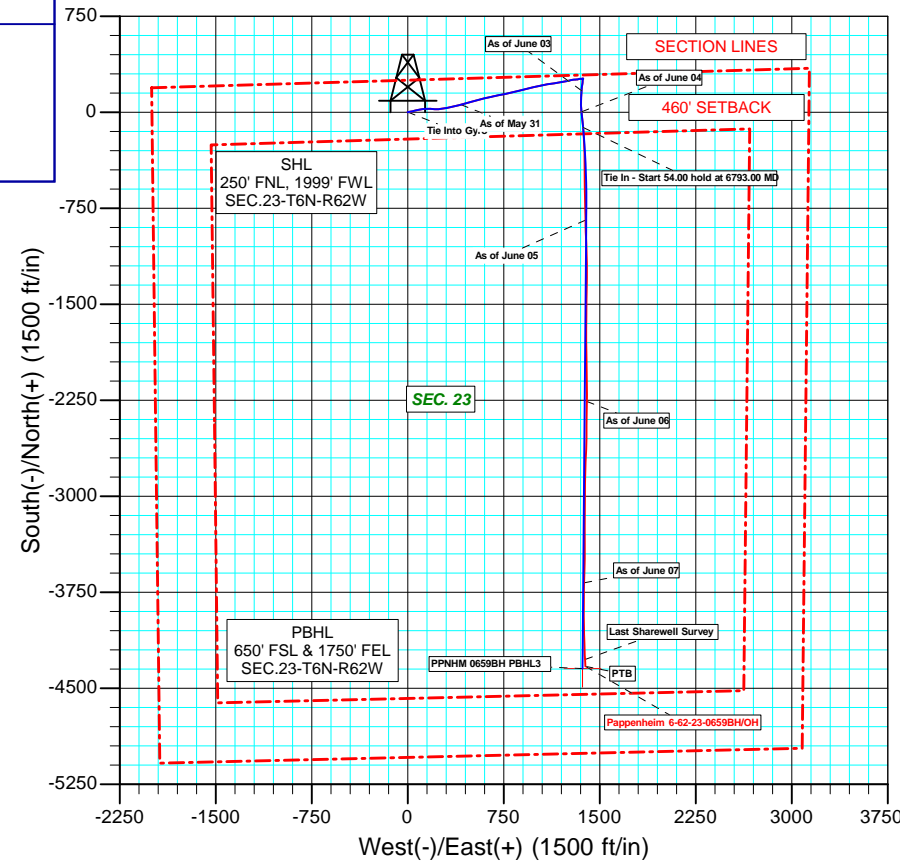
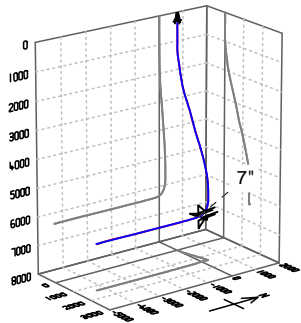
+N/-S	+E/-W	Northing	Ground Level:	4699.00	Latitude	Longitude	Slot
0.00	0.00	1419853.79	Easting	3336197.28	40° 28' 46.60 N	104° 17' 29.10 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PPNHM 0659BH PBHL3	6381.00	-4346.44	1365.83	40° 28' 3.47 N	104° 17' 12.20 W	Point

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



Azimuths to Grid North
 True North: -0.78°
 Magnetic North: 7.57°
 Magnetic Field
 Strength: 53019.4snT
 Dip Angle: 67.12°
 Date: 05/22/2013
 Model: IGRF2010

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Pappenheim 6-62-23-0659BH
Project:	Weld Co., CO (NAD 83)	TVD Reference:	RKB:16' @ 4715.00ft (Cade 24)
Site:	Sec.23-T6N-R62W	MD Reference:	RKB:16' @ 4715.00ft (Cade 24)
Well:	Pappenheim 6-62-23-0659BH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	CompassVM

Project	Weld Co., CO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

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

Well	Pappenheim 6-62-23-0659BH					
Well Position	+N/-S	0.00 ft	Northing:	1,419,853.79 usft	Latitude:	40° 28' 46.60 N
	+E/-W	0.00 ft	Easting:	3,336,197.29 usft	Longitude:	104° 17' 29.10 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,699.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/05/22	8.35	67.12	53,019

Design	OH				
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	162.86	

Survey Program	Date	2013/06/25			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	745.00	Gyros (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
885.00	11,006.00	MWD (OH)	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	0.240	19.89	100.00	0.20	0.07	-0.17	0.24	0.24	0.00	
200.00	0.180	273.37	200.00	0.40	-0.01	-0.39	0.34	-0.06	-106.52	
300.00	0.310	334.42	300.00	0.66	-0.29	-0.71	0.27	0.13	61.05	
400.00	0.330	356.07	400.00	1.19	-0.42	-1.26	0.12	0.02	21.65	
500.00	0.220	34.03	500.00	1.63	-0.34	-1.66	0.21	-0.11	37.96	
600.00	0.290	323.13	600.00	2.00	-0.38	-2.02	0.30	0.07	-70.90	
700.00	0.360	79.24	699.99	2.26	-0.22	-2.22	0.55	0.07	116.11	
745.00	0.360	69.65	744.99	2.33	0.05	-2.21	0.13	0.00	-21.31	
Tie Into Gyro										

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Well:	Pappenheim 6-62-23-0659BH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
885.00	0.400	117.20	884.99	2.26	0.89	-1.90	0.22	0.03	33.96	
First Sharewell Survey										
916.00	0.500	141.70	915.99	2.11	1.07	-1.70	0.69	0.32	79.03	
947.00	1.700	108.10	946.98	1.86	1.60	-1.30	4.24	3.87	-108.39	
978.00	4.000	92.80	977.94	1.66	3.11	-0.67	7.75	7.42	-49.35	
1,008.00	6.600	80.40	1,007.81	1.90	5.86	-0.09	9.42	8.67	-41.33	
1,039.00	9.000	78.30	1,038.52	2.69	9.99	0.38	7.80	7.74	-6.77	
1,070.00	10.000	77.00	1,069.10	3.78	14.99	0.80	3.30	3.23	-4.19	
1,101.00	10.300	77.30	1,099.61	5.00	20.31	1.21	0.98	0.97	0.97	
1,193.00	10.900	76.50	1,190.04	8.84	36.79	2.40	0.67	0.65	-0.87	
1,285.00	11.500	76.10	1,280.29	13.07	54.16	3.47	0.66	0.65	-0.43	
1,377.00	11.000	77.60	1,370.52	17.16	71.63	4.71	0.63	-0.54	1.63	
1,471.00	11.200	78.00	1,462.76	20.98	89.32	6.27	0.23	0.21	0.43	
1,566.00	10.900	83.80	1,556.01	23.87	107.27	8.80	1.21	-0.32	6.11	
1,660.00	9.900	80.20	1,648.46	26.21	124.07	11.52	1.27	-1.06	-3.83	
1,754.00	10.200	85.30	1,741.02	28.26	140.33	14.35	1.00	0.32	5.43	
1,849.00	13.300	93.10	1,834.03	28.36	159.63	19.94	3.66	3.26	8.21	
1,943.00	15.000	95.70	1,925.17	26.57	182.53	28.40	1.93	1.81	2.77	
2,038.00	18.800	91.30	2,016.06	25.00	210.08	38.02	4.22	4.00	-4.63	
2,132.00	21.800	88.50	2,104.21	25.11	242.68	47.52	3.35	3.19	-2.98	
2,227.00	22.400	82.30	2,192.24	28.00	278.26	55.25	2.53	0.63	-6.53	
2,321.00	21.400	77.70	2,279.46	34.06	312.77	59.63	2.11	-1.06	-4.89	
2,416.00	22.100	74.80	2,367.70	42.43	346.95	61.70	1.35	0.74	-3.05	
2,510.00	22.500	75.60	2,454.67	51.54	381.43	63.16	0.53	0.43	0.85	
2,605.00	21.100	72.90	2,542.88	61.09	415.38	64.04	1.81	-1.47	-2.84	
As of May 31										
2,699.00	21.900	76.00	2,630.34	70.31	448.57	65.01	1.48	0.85	3.30	
2,794.00	22.200	77.70	2,718.39	78.42	483.29	67.50	0.74	0.32	1.79	
2,888.00	22.600	75.60	2,805.30	86.69	518.14	69.86	0.95	0.43	-2.23	
2,983.00	22.700	74.20	2,892.97	96.22	553.46	71.16	0.58	0.11	-1.47	
3,077.00	20.800	74.90	2,980.28	105.51	587.03	72.18	2.04	-2.02	0.74	
3,172.00	21.500	77.70	3,068.88	113.61	620.32	74.25	1.29	0.74	2.95	
3,266.00	18.500	75.80	3,157.20	120.94	651.62	76.46	3.27	-3.19	-2.02	
3,359.00	16.900	78.10	3,245.80	127.35	679.15	78.46	1.88	-1.72	2.47	
3,454.00	17.000	78.80	3,336.67	132.90	706.29	81.15	0.24	0.11	0.74	
3,548.00	18.100	78.50	3,426.29	138.48	734.08	84.01	1.17	1.17	-0.32	
3,643.00	19.600	77.80	3,516.20	144.79	764.11	86.83	1.60	1.58	-0.74	
3,737.00	22.300	76.90	3,603.97	152.16	796.90	89.45	2.89	2.87	-0.96	
3,832.00	25.100	79.00	3,690.96	160.09	834.24	92.87	3.08	2.95	2.21	
3,926.00	24.600	77.80	3,776.25	168.03	872.94	96.69	0.76	-0.53	-1.28	
4,021.00	24.300	75.80	3,862.73	177.01	911.21	99.40	0.93	-0.32	-2.11	
4,115.00	22.500	74.40	3,949.00	186.59	947.29	100.87	2.00	-1.91	-1.49	
4,209.00	21.800	74.00	4,036.06	196.24	981.39	101.70	0.76	-0.74	-0.43	

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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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)	
4,304.00	20.700	77.30	4,124.61	204.79	1,014.73	103.35	1.71	-1.16	3.47	
4,398.00	22.000	78.90	4,212.15	211.83	1,048.22	106.49	1.52	1.38	1.70	
4,492.00	21.300	82.30	4,299.53	217.51	1,082.41	111.15	1.53	-0.74	3.62	
4,587.00	19.800	81.00	4,388.48	222.34	1,115.41	116.26	1.65	-1.58	-1.37	
4,681.00	17.500	80.90	4,477.54	227.07	1,145.09	120.49	2.45	-2.45	-0.11	
4,776.00	18.500	81.50	4,567.89	231.55	1,174.10	124.75	1.07	1.05	0.63	
4,870.00	17.800	79.50	4,657.21	236.37	1,202.98	128.65	1.00	-0.74	-2.13	
4,964.00	16.700	78.70	4,746.98	241.64	1,230.35	131.69	1.20	-1.17	-0.85	
5,059.00	16.300	77.80	4,838.07	247.13	1,256.77	134.22	0.50	-0.42	-0.95	
5,154.00	15.300	76.90	4,929.48	252.79	1,282.01	136.25	1.08	-1.05	-0.95	
5,248.00	11.500	87.90	5,020.92	255.95	1,303.46	139.56	4.85	-4.04	11.70	
5,343.00	8.900	83.80	5,114.41	257.09	1,320.23	143.41	2.84	-2.74	-4.32	
5,437.00	7.200	78.80	5,207.48	259.02	1,333.24	145.40	1.95	-1.81	-5.32	
5,532.00	5.800	74.30	5,301.87	261.47	1,343.70	146.14	1.57	-1.47	-4.74	
5,626.00	5.300	95.00	5,395.44	262.38	1,352.60	147.90	2.18	-0.53	22.02	
5,721.00	3.600	83.80	5,490.15	262.32	1,359.94	150.12	2.00	-1.79	-11.79	
5,815.00	2.900	63.20	5,584.00	263.71	1,365.00	150.28	1.44	-0.74	-21.91	
5,909.00	1.100	108.10	5,677.94	264.50	1,367.98	150.40	2.40	-1.91	47.77	
5,994.00	0.900	64.30	5,762.93	264.54	1,369.35	150.77	0.90	-0.24	-51.53	
6,035.00	1.000	35.00	5,803.92	264.97	1,369.85	150.50	1.20	0.24	-71.46	
6,067.00	0.600	102.10	5,835.92	265.16	1,370.17	150.41	2.95	-1.25	209.69	
6,098.00	4.300	185.20	5,866.89	263.97	1,370.23	151.57	13.77	11.94	268.06	
6,130.00	7.000	194.20	5,898.73	260.89	1,369.64	154.34	8.85	8.44	28.13	
6,161.00	6.500	197.00	5,929.52	257.38	1,368.66	157.41	1.93	-1.61	9.03	
6,193.00	7.300	188.20	5,961.29	253.63	1,367.84	160.75	4.14	2.50	-27.50	
6,224.00	11.200	183.70	5,991.88	248.68	1,367.37	165.34	12.79	12.58	-14.52	
6,256.00	14.500	186.20	6,023.07	241.59	1,366.73	171.93	10.46	10.31	7.81	
6,287.00	17.400	187.70	6,052.88	233.14	1,365.69	179.70	9.45	9.35	4.84	
6,319.00	19.000	188.30	6,083.28	223.24	1,364.30	188.74	5.03	5.00	1.88	
6,350.00	20.900	189.70	6,112.41	212.80	1,362.64	198.24	6.32	6.13	4.52	
6,382.00	25.200	186.90	6,141.85	200.40	1,360.86	209.56	13.86	13.44	-8.75	
6,413.00	29.600	185.30	6,169.37	186.22	1,359.36	222.67	14.39	14.19	-5.16	
6,445.00	33.900	183.70	6,196.57	169.43	1,358.05	238.32	13.69	13.44	-5.00	
As of June 03										
6,510.00	42.000	182.50	6,247.79	129.55	1,355.93	275.80	12.51	12.46	-1.85	
6,541.00	47.200	183.40	6,269.85	107.82	1,354.80	296.24	16.90	16.77	2.90	
6,573.00	52.300	181.00	6,290.52	83.43	1,353.88	319.28	16.93	15.94	-7.50	
6,604.00	56.600	179.50	6,308.54	58.21	1,353.78	343.34	14.42	13.87	-4.84	
6,636.00	60.300	175.60	6,325.29	30.98	1,354.97	369.71	15.54	11.56	-12.19	
6,667.00	66.000	173.40	6,339.29	3.47	1,357.63	396.79	19.45	18.39	-7.10	
As of June 04										
6,699.00	71.600	173.50	6,350.85	-26.16	1,361.03	426.10	17.50	17.50	0.31	
6,730.00	78.000	173.80	6,358.98	-55.88	1,364.34	455.48	20.67	20.65	0.97	
6,762.00	83.700	175.30	6,364.07	-87.31	1,367.33	486.40	18.40	17.81	4.69	

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Design:	OH	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)	
6,793.00	87.500	175.20	6,366.44	-118.11	1,369.89	516.58	12.26	12.26	-0.32	
6,856.00	88.000	175.80	6,368.92	-180.87	1,374.83	578.01	1.24	0.79	0.95	
6,951.00	88.700	178.30	6,371.65	-275.69	1,379.72	670.06	2.73	0.74	2.63	
7,045.00	88.000	177.90	6,374.36	-369.60	1,382.83	760.72	0.86	-0.74	-0.43	
7,140.00	88.000	180.40	6,377.67	-464.53	1,384.24	851.84	2.63	0.00	2.63	
7,234.00	89.400	180.40	6,379.81	-558.50	1,383.58	941.45	1.49	1.49	0.00	
7,329.00	89.900	178.80	6,380.39	-653.49	1,384.25	1,032.42	1.76	0.53	-1.68	
7,424.00	89.600	178.10	6,380.80	-748.45	1,386.82	1,123.92	0.80	-0.32	-0.74	
7,518.00	88.500	179.10	6,382.36	-842.41	1,389.11	1,214.38	1.58	-1.17	1.06	
As of June 05										
7,612.00	89.100	177.50	6,384.33	-936.35	1,391.90	1,304.96	1.82	0.64	-1.70	
7,707.00	91.400	177.90	6,383.92	-1,031.26	1,395.71	1,396.79	2.46	2.42	0.42	
7,801.00	90.500	178.30	6,382.36	-1,125.20	1,398.83	1,487.47	1.05	-0.96	0.43	
7,896.00	90.200	180.80	6,381.78	-1,220.18	1,399.58	1,578.46	2.65	-0.32	2.63	
7,991.00	89.900	180.40	6,381.69	-1,315.18	1,398.58	1,668.94	0.53	-0.32	-0.42	
8,085.00	89.500	179.70	6,382.19	-1,409.18	1,398.50	1,758.74	0.86	-0.43	-0.74	
8,179.00	89.000	181.80	6,383.42	-1,503.15	1,397.27	1,848.18	2.30	-0.53	2.23	
8,274.00	90.500	180.50	6,383.83	-1,598.13	1,395.36	1,938.38	2.09	1.58	-1.37	
8,369.00	91.600	180.50	6,382.09	-1,693.11	1,394.53	2,028.89	1.16	1.16	0.00	
8,462.00	91.500	179.60	6,379.57	-1,786.07	1,394.45	2,117.70	0.97	-0.11	-0.97	
8,557.00	91.300	179.20	6,377.25	-1,881.04	1,395.45	2,208.75	0.47	-0.21	-0.42	
8,651.00	90.200	178.20	6,376.02	-1,975.00	1,397.58	2,299.17	1.58	-1.17	-1.06	
8,746.00	89.500	179.40	6,376.27	-2,069.98	1,399.57	2,390.51	1.46	-0.74	1.26	
8,840.00	89.600	180.40	6,377.01	-2,163.98	1,399.73	2,480.38	1.07	0.11	1.06	
8,935.00	88.800	180.20	6,378.34	-2,258.97	1,399.24	2,571.00	0.87	-0.84	-0.21	
As of June 06										
9,029.00	89.500	180.40	6,379.73	-2,352.95	1,398.74	2,660.67	0.77	0.74	0.21	
9,124.00	90.900	180.50	6,379.40	-2,447.95	1,398.00	2,751.23	1.48	1.47	0.11	
9,218.00	89.100	180.90	6,379.40	-2,541.94	1,396.85	2,840.70	1.96	-1.91	0.43	
9,313.00	91.800	182.90	6,378.65	-2,636.87	1,393.70	2,930.49	3.54	2.84	2.11	
9,408.00	91.200	181.80	6,376.17	-2,731.75	1,389.81	3,020.02	1.32	-0.63	-1.16	
9,502.00	90.200	181.60	6,375.02	-2,825.70	1,387.02	3,108.97	1.08	-1.06	-0.21	
9,597.00	90.100	181.00	6,374.77	-2,920.68	1,384.86	3,199.09	0.64	-0.11	-0.63	
9,691.00	89.300	179.90	6,375.26	-3,014.67	1,384.12	3,288.69	1.45	-0.85	-1.17	
9,786.00	90.100	180.40	6,375.76	-3,109.67	1,383.88	3,379.40	0.99	0.84	0.53	
9,880.00	90.300	179.70	6,375.43	-3,203.67	1,383.79	3,469.20	0.77	0.21	-0.74	
9,975.00	91.000	180.60	6,374.35	-3,298.66	1,383.55	3,559.90	1.20	0.74	0.95	
10,069.00	90.100	179.60	6,373.45	-3,392.65	1,383.38	3,649.67	1.43	-0.96	-1.06	
10,163.00	92.300	180.40	6,371.48	-3,486.63	1,383.38	3,739.47	2.49	2.34	0.85	
10,258.00	91.500	182.30	6,368.33	-3,581.54	1,381.14	3,829.51	2.17	-0.84	2.00	
10,353.00	91.200	181.10	6,366.09	-3,676.47	1,378.33	3,919.39	1.30	-0.32	-1.26	
As of June 07										
10,448.00	90.600	180.90	6,364.60	-3,771.45	1,376.67	4,009.66	0.67	-0.63	-0.21	
10,542.00	88.200	179.70	6,365.59	-3,865.43	1,376.18	4,099.33	2.85	-2.55	-1.28	

Company:	Bill Barrett Corp. (II)	Local Co-ordinate Reference:	Well Pappenheim 6-62-23-0659BH
Project:	Weld Co., CO (NAD 83)	TVD Reference:	RKB:16' @ 4715.00ft (Cade 24)
Site:	Sec.23-T6N-R62W	MD Reference:	RKB:16' @ 4715.00ft (Cade 24)
Well:	Pappenheim 6-62-23-0659BH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
10,638.00	87.800	179.90	6,368.94	-3,961.37	1,376.51	4,191.11	0.47	-0.42	0.21	
10,732.00	87.400	178.90	6,372.87	-4,055.28	1,377.50	4,281.14	1.14	-0.43	-1.06	
10,826.00	87.500	178.00	6,377.05	-4,149.15	1,380.04	4,371.59	0.96	0.11	-0.96	
10,921.00	87.800	177.00	6,380.95	-4,243.98	1,384.18	4,463.42	1.10	0.32	-1.05	
10,952.00	88.000	176.70	6,382.09	-4,274.91	1,385.88	4,493.48	1.16	0.65	-0.97	
Last Sharewell Survey										
11,006.00	88.000	176.70	6,383.97	-4,328.79	1,388.98	4,545.88	0.00	0.00	0.00	
PTB										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
745.00	744.99	2.33	0.05	Tie Into Gyro	
885.00	884.99	2.26	0.89	First Sharewell Survey	
2,605.00	2,542.88	61.09	415.38	As of May 31	
6,445.00	6,196.57	169.43	1,358.05	As of June 03	
6,667.00	6,339.29	3.47	1,357.63	As of June 04	
7,518.00	6,382.36	-842.41	1,389.11	As of June 05	
8,935.00	6,378.34	-2,258.97	1,399.24	As of June 06	
10,353.00	6,366.09	-3,676.47	1,378.33	As of June 07	
10,952.00	6,382.09	-4,274.91	1,385.88	Last Sharewell Survey	
11,006.00	6,383.97	-4,328.79	1,388.98	PTB	

Checked By: _____ Approved By: _____ Date: _____