Homogenization Temperature and Salinity Data for Fluid Inclusions from the Summitville, Colorado, Cu–Au–Ag Deposit

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Introduction

The Appendix to this report presents a table of homogenization temperature and salinity data (as weight percent NaCl equivalent) on individual fluid inclusions from the high-sulfidation Cu-Au-Ag deposit at Summitville, Colorado. The data supplement Table 2 in Bethke and others (2004) in which the data are only summarized.

Samples

Samples for fluid inclusion analysis were from outcrops, diamond drill cores, dumps, and mine benches. Their coordinates (northing and easting) and elevation, where known, are listed with the fluid inclusion data in the Appendix. The coordinates are those shown on Figure 2 of Bethke and others (2004). Samples noted by hyphenated numbers were taken from diamond drill core, the first number denoting the drill hole and the second the down-hole footage (uncorrected for plunge). The coordinates and elevations of the diamond drill core samples are based on data for the surveyed locations of the collar and plunge and azimuth of the holes supplied by the Summitville Consolidated Mining Company (M. Coolbaugh, written communication, 1991) and on logged core footages corrected for the azimuth and declination of the drill hole. The coordinates of surface and dump samples are less well known. Their elevations are constrained within a few meters but the uncertainties in their northing and easting coordinates may be substantial. If the approximate coordinates of surface and dump samples are known within ±20 meters, they are noted in italics. Otherwise, no entry is listed. Mine areas noted in the Appendix are shown in Figure 2 of Bethke and others (2004). The Appendix is in Microsoft Excel™ format.

Measurements

Thermometric data on fluid inclusions were obtained using a USGS-design gas-flow heating–cooling stage (Werre and others, 1980). Homogenization of inclusions to liquid (L) or vapor (V) on heating is indicated in the Appendix. Estimated precision of heating measurements (Th) was ±5°C, and was ±0.5°C for measurements of freezing-point depression (Tm). Measurements on samples 14-3498, 14-4734, and SV79-1 were made by Vikre on fluid

inclusions in vein quartz. All other measurements were made on secondary fluid inclusions in quartz phenocrysts in the host South Mountain Quartz Latite by Stoffregen with the exception of sample 293-37 which was measured by Greg Symmes. Salinity (weight percent NaCl equivalent) values were estimated from freezing point depression measurements (Tm) using the equation of Bodnar (1993) and, for saturated fluid inclusions, from NaCl dissolution (Ts) based the data for NaCl-H_2O binary system by Sourirajan and Kennedy (1962).

References

Bethke, P.M., Rye, R.O., Stoffregen R.E. and Vikre, P.G., 2004, Evolution of the magmatic-hydrothermal acid-sulfate system at Summitville, Colorado: Integration of geological, stable-isotope, and fluid-inclusion evidence: Chemical Geology, v. 215, p. 281-315.

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Sourirajan, S., and Kennedy, G.C., 1962, The system H_2O–NaCl at elevated temperatures and pressures: American Journal of Science, v. 260, p. 115-141.

Werre, R.W., Jr., Bodnar, R.J., Bethke, P.M., and Barton, P.B., Jr., 1980, Novel heating-freezing fluid inclusion stage: U. S. Geological Survey Professional Paper 1175, p. 190.

Table 1.

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
5-1058	Annie	Core	Vuggy Silica	52,857	99,717	3299	L	203.5	-1.95		3.31
							L	213.5	-16.70		19.99
							L	216.5	-3.25		5.34
							L	216.5	-2.45		4.10
							L	222.5	-1.70		2.90
							L	222.5	-2.05		3.47
							L	225.5	-2.75		4.57
							L	232.5	-1.75		2.98
							L	232.5	-2.75		4.57
							L	233.5	-1.60		2.74
							L	234.5	-3.05		5.03
							L	235.2	-4.05		6.52
							L	237.5	-1.25		2.16
							L	241.5			
							L	243.5	-4.15		6.67
							L	245.5	-1.95		3.31
							L	245.5	-1.45		2.49
							L	249.5	-1.25		2.16
							L	256.6	-9.45		13.34
							L	280.5	-3.75		6.08
							L	282.5			
							L		-3.20		5.26
							L		-24.75		25.42
							L		-9.10		12.96
322-655	Annie	Core	Vuggy Silica	52,100	99,625	3425	L	169.0	-0.45		0.79
							L	201.0	-0.15		0.27
							L	201.5	-0.35		0.62
							L	202.5	-0.35		0.62
							L	212.5	-0.80		1.40
							L	232.5	-1.15		1.99
							L	232.5	-0.80		1.40
							L	235.5	-0.85		1.48
							L	235.5	-0.85		1.48
							L	237.5	-0.85		1.48
							L	240.5	-0.65		1.14
							L	243.0			
							L	245.0			
							L	248.0	-0.25		0.44
							L	253.5	-1.10		1.91
							L	269.2			
							L	282.5	-0.35		0.62
							L	305.5	-1.15		1.99
							L		-0.85		1.48
							L		-0.20		0.35
							L		-0.35		0.62
323-744	Annie	Core	Vuggy Silica	52,293	99,667	3390	L	176.5	-7.55		11.16
							L	184.5	-8.15		11.87
							L	225.5	-2.45		4.10
							L	235.5	-8.65		12.45
							L	236.5	-2.25		3.79
							L	241.5	-2.35		3.95
							L	243.5	-2.35		3.95
							L	243.5	-2.35		3.95
							L	244.0	-1.60		2.74

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
323-744	(cont.)						L	244.5	-8.55		12.34
							L	248.0	-2.75		4.57
							L	248.5	-0.55		0.97
							L	251.0	-3.85		6.23
							L	262.0	-0.45		0.79
							L	265.8	-2.15		3.63
							L	270.5	-3.85		6.23
							L	280.0	-2.35		3.95
							L	294.5	-2.35		3.95
323-742	Annie	Core	Vuggy Silica	52,276	99,630	3390	L	207.5	-23.55		24.68
							L	229.8	-6.45		9.79
							L	243.5	-4.65		7.38
							L	244.5	-4.25		6.81
							L	250.5	-1.65		2.82
							L	256.5	-1.05		1.82
							L	256.5	-1.35		2.32
							L	256.5	-1.55		2.65
							L	260.5	-1.05		1.82
							L	285.0	-1.55		2.65
							L		-23.35		24.56
							L		-23.00		24.34
281-401	Annie	Core	Vuggy Silica	99,602	51,200	3552	L	201.5	-1.25		2.16
							L	204.5	-1.50		2.57
							L	204.8	-1.85		3.15
							L	206.5	-1.65		2.82
							L	206.5	-1.65		2.82
							L	216.5	-1.85		3.15
							L	217.0	-1.75		2.98
							L	217.5	-1.25		2.16
							L	218.5	-1.75		2.98
							L	219.5	-1.85		3.15
							L	220.5	-1.85		3.15
							L	223.5	-1.75		2.98
							L	223.5	-1.35		2.32
							L	225.5	-1.85		3.15
							L	228.0	-1.85		3.15
							L	228.5	-1.05		1.82
							L	229.5	-1.45		2.49
							L	233.2	-2.15		3.63
							L	234.5	-2.65		4.42
							L	235.5	-2.25		3.79
							L	240.5	-1.25		2.16
							L	241.5	-2.35		3.95
							L		-2.35		3.95
							L		-1.65		2.82
5-288	Annie	Core	Vuggy Silica	99,717	52,857	3533	L	202.5			
							L	207.5			
							L	207.5			
							L	207.5			
							L	207.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
5-288	(cont.)						L	217.5			
							L	217.5			
							L	217.5			
							L	222.5			
							L	222.5			
							L	222.5			
							L	227.5			
							L	242.5			
							L	322.5			
							L	367.5			
14	Annie	Surface	Quartz-Alunite			3612	L	192.0	-1.95		3.31
							L	195.0	-2.00		3.39
							L	198.5	-1.45		2.49
							L	198.5	-1.90		3.23
							L	203.0	-1.95		3.31
							L	213.5	-2.45		4.10
							L	221.5	-3.25		5.34
							L	224.5	-3.25		5.34
							L	225.1	-2.95		4.88
							L	226.5	-3.30		5.41
							L	228.5	-3.05		5.03
							L	228.5	-3.15		5.19
							L	230.5	-3.25		5.34
							L	234.5	-3.30		5.41
							L	250.5	-0.85		1.48
							L	251.5	0.95		-1.73
							L	262.0	-2.25		3.79
							L		-0.85		1.48
							L		-0.85		1.48
							L		-0.90		1.57
							L		-0.95		1.65
							L		-2.05		3.47
							L		-2.05		3.47
							L		-2.05		3.47
							L		-2.00		3.39
							L		-3.30		5.41
							L		-3.05		5.03
300-672	Copper Hill	Core	Vuggy Silica	51,494	100,441	3412	L	253.0	-3.70		6.01
							L	266.3	-8.95		12.79
							L	267.0	-3.90		6.30
							L	282.5	-4.65		7.38
							L	285.5	-5.65		8.75
							L	293.0	-0.25		0.44
							L	297.5	-0.95		1.65
							L	301.2	-0.40		0.70
							L	313.0	-1.15		1.99
							L		-0.40		0.70
266-359	Copper Hill	Core	Quartz-Alunite	100,504	50,957	3522	L	215.5	-1.85		3.15
							L	240.5	-1.75		2.98
							L	240.5	-1.85		3.15
							L	241.5	-1.95		3.31
							L	242.5	-1.95		3.31
							L	243.5	-1.95		3.31
							L	244.5	-1.95		3.31
							L	253.5	-1.75		2.98

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
266-359	(cont.)						L	253.5	-1.85		3.15
							L	254.5	-1.95		3.31
							L		-1.05		1.82
							L		-1.55		2.65
							L		-1.65		2.82
							L		-1.85		3.15
							L		-2.75		4.57
							L		-4.95		7.80
							L		-4.95		7.80
92	Copper Hill	Surface	Smectite			3517	L	249.5			
							L	331.5			
							L	346.0			
							L	346.0			
							L	386.0			
							L	389.0	-5.30		8.28
							L	389.0			
82	Copper Hill	Surface	Illite Zone			3523	L	214.2	-2.65		4.42
							L	227.5	-2.65		4.42
							L	231.0	-2.65		4.42
							L	234.0			
							L	235.0			
							L	253.0	-2.75		4.57
							L	271.0	-2.65		4.42
							L	359.2			
							L	359.5			
							L	363.0	-1.90		3.23
							L	363.5	-2.20		3.71
						3523	L	363.5	-2.30		3.87
							L	365.5	-1.85		3.15
							L	365.5	-2.60		4.34
							L	368.3	-1.90		3.23
							L	369.5	-2.25		3.79
							L	370.5			
							L	372.5	-2.30		3.87
							L		-1.35		2.32
83	Copper Hill	Surface	Illite Zone			3523	L	219.5			
							L	227.0	-1.30		2.24
							L	240.5	-1.40		2.41
							L	242.0	-3.10		5.11
							L	246.5	-2.75		4.57
							L	252.0			
							L	256.6			
							L	272.0	-2.05		3.47
							V	337.0			
							V	340.0			
							V	347.0			
							V	347.0			
84	Copper Hill	Surface	Illite Zone			3523	L	211.0			
							L	211.5	-2.35		3.95
							L	214.5			
							L	219.0	-2.35		3.95
							L	221.0	-2.35		3.95
							L	221.0			
							L	229.0	-2.30		3.87
							L	232.5	-2.35		3.95

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
84	(cont.)						L	239.5	-2.30		3.87
							L	251.0	-2.35		3.95
320-1026	Hidden	Core	Vuggy Silica	50,783	100,264	3357	L	*167.0*□	-0.55		0.97
							L	204.4	-4.75		7.52
							L	212.5	-2.15		3.63
							L	215.5	-2.25		3.79
							L	218.5	-1.95		3.31
							L	219.5	-1.95		3.31
							L	220.5	-1.85		3.15
							L	222.0	-2.05		3.47
							L	223.5	-1.95		3.31
							L	224.0	-1.95		3.31
							L	224.5	-2.00		3.39
							L	227.5	-1.00		1.74
							L	228.5	-4.45		7.09
							L	229.5	-1.95		3.31
							L	232.0	-12.25		16.20
							L	234.5	-0.95		1.65
							L	235.5	-1.80		3.06
							L	236.5	-2.05		3.47
							L	236.5	-4.85		7.66
							L	236.5	-8.15		11.87
							L	236.5	-8.15		11.87
							L	237.5	-4.85		7.66
							L	238.5	-8.05		11.76
							L	241.2	-1.95		3.31
							L	243.5	-0.85		1.48
							L	243.5	-0.95		1.65
							L	247.0	-1.95		3.31
							L	253.0	-1.95		3.31
							L	254.5	-2.25		3.79
							L	260.0	-1.55		2.65
							L		-2.10		3.55
							L		-3.15		5.19
25	Hidden	Surface	Vuggy Silica			3603	V	320.0			
							V	340.0			
							V	345.0			
							V	350.0			
							V	357.0			
							V	360.0			
							V	360.0			
							V	360.0			
							V	363.0			
							V	365.0			
							V	369.2			
							V	370.0			
							V	375.0			
26	Hidden	Surface	Vuggy Silica			3603	L	194.5			
							L	214.0			
							L	224.0			
							L	227.0			
266-714	Hidden	Core	Vuggy Silica	50,668	100,262	3433	L	222.5	-1.75		2.98
							L	223.5	-3.85		6.23
							L	226.5			
							L	228.0	-3.65		5.94

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
266-714	(cont.)						L	229.5	-3.95		6.38
							L	231.2	-3.20		5.26
							L	231.5	-3.65		5.94
							L	233.5			
							L	238.0	-1.85		3.15
							L	240.3	-3.30		5.41
							L	240.3	-3.70		6.01
							L	240.5			
							L	244.5	-1.65		2.82
							L	245.5			
							L	247.0	-1.65		2.82
							L	258.0			
							L		-3.65		5.94
30	Hidden	Surface	Montmorillonite			3603	L	183.0			
							L	192.0			
							L	193.0			
							L	197.5			
							L	198.0			
							L	198.5			
							L	199.5			
							L	200.0			
							L	202.0			
							L	203.0			
							L	203.0			
							L	204.0			
							L	205.5			
							L	206.0			
							L	206.0			
							L	207.5			
							L	210.0			
							L	213.0			
							L	214.0			
32	Hidden	Surface	Montmorillonite			3603	L	327.5			
							L	335.0			
							L	338.0	-3.45		5.64
							L	339.5			
							L	350.3	-3.65		5.94
							L	350.3			
							L	354.0			
27	Hidden	Surface	Illite/Kaolinite			3603	L	135.0			
							L	171.0			
							L	182.0			
							L	195.0			
							L	206.0			
							L	207.0			
							L	207.0			
							L	216.0			
							L	232.0			
293-37	Tewksbury	Core	Vuggy Silica	50,797	100,249	3648	L	175.4			
							L	182.5			
							L	184.7			
							L	184.9			
							L	185.0			
							L	185.0			
							L	185.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
293-37	(cont.)						L	190.5			
							L	192.3			
							L	194.3			
							L	197.5			
							L	200.5			
							L	200.7			
							L	201.7			
							L	202.4			
							L	202.5			
							L	203.1	-7.70		11.34
							L	203.9			
							L	204.4	-4.20		6.74
							L	204.6	-8.30		12.05
							L	205.3			
							L	205.6			
							L	205.9			
							L	207.0			
							L	207.5			
							L	208.3			
							L	209.0			
							L	210.4			
							L	212.0			
							L	213.5			
							L	213.5			
							L	214.8			
							L	216.5			
							L	217.6			
							L	217.7			
							L	218.0			
							L	219.2			
							L	219.9			
							L	220.2	-14.40		18.13
							L	220.3			
							L	221.7			
							L	222.4			
							L	224.0			
							L	225.4			
							L	227.3			
							L	228.2			
							L	228.2			
							L	228.3			
							L	229.2			
							L	229.5	-0.30		0.53
							L	231.4			
							L	233.3			
							L	234.6			
							L	236.7			
							L	244.1			
							L	244.5			
							L	245.5			
							L	246.7	-14.20		17.96
							L	248.5			
							L	250.8	-13.90		17.70
							L	255.7			
							L	260.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
293-37	(cont.)						L	276.7			
							L	295.2			
14-3498	Iowa	Core	Py-Qz Stockwork	100,876	50,502	2540	L	222.5			
							L	292.5			
							L	302.5			
							L	307.5			
							L	307.5			
							L	307.5			
							L	307.5			
							L	312.5			
							L	312.5			
							L	312.5			
							L	312.5			
							L	312.5			
							L	312.5			
							L	313.0		304	37.9
							L	314.0		269	35.1
							L	322.5			
							L	327.5			
							L	328.0		354	42.3
							L	328.0		338	39.8
							L	342.5			
							L	343.0		307	38.0
							L	347.5			
							L	352.5			
							L	353.0		307	38.0
							L	367.5			
							L	372.5			
							L	377.5			
							L	382.5			
							L	382.5			
							L	387.5			
							L	387.5			
							L	392.5			
							L	392.5			
							L	397.5			
							L	397.5			
							L	397.5			
							L	397.5			
							L	402.5			
							L	402.5			
							L	402.5			
							L	402.5			
							L	402.5			
							L	402.5			
							L	407.5			
							L	407.5			
							L	407.5			
							L	407.5			
							L	407.5			
							L	412.5			
							L	412.5			
							L	412.5			
							L	412.5			
							L	422.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
14-3498	(cont.)						L	432.5			
							L	441.0		334	39.5
							L	442.5			
							L	447.5			
							L	452.5			
							L	467.5			
							L	470.0		294	36.6
							L	472.5			
							L	497.5			
							V	322.5			
							V	327.5			
							V	362.5			
							V	407.5			
							V	452.5			
							V	467.5			
							V	472.5			
14-4734	Iowa	Core	Py-Qz Stockwork	100,876	50,502	2163	L	297.5			
							L	387.5			
							V	372.5			
							V	462.5			
							V	462.5			
SV79-1	Missionary	Dump	Ore Stage			*3444*□	L	197.5			
							L	197.5			
							L	197.5			
							L	197.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	202.5			
							L	207.5			
							L	207.5			
							L	207.5			
							L	207.5			
							L	207.5			
							L	207.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
SV79-1	(cont.)						L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	212.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
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							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	217.5			
							L	222.5			
							L	222.5			
							L	222.5			
							L	222.5			
							L	222.5			
							L	222.5			
							L	222.5			
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							L	222.5			
							L	222.5			
							L	222.5			
							L	227.5			
							L	227.5			
							L	227.5			
							L	232.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
SV79-1	(cont.)						L	232.5			
							L	232.5			
							L	232.5			
							L	233.0		212	32.4
							L	237.5			
							L	237.5			
							L	237.5			
							L	237.5			
							L	237.5			
							L	237.5			
							L	241.0		240	33.6
							L	242.5			
							L	242.5			
							L	242.5			
							L	242.5			
							L	242.5			
							L	242.5			
							L	242.5			
							L	242.5			
							L	245.0		251	34.5
							L	247.0		251	34.5
							L	247.5			
							L	252.5			
							L	252.5			
							L	252.5			
							L	252.5			
							L	252.5			
							L	257.5			
							L	262.5			
							L	262.5			
							L	262.5			
							L	262.5			
							L	262.5			
							L	272.5			
							L	272.5			
							L	272.5			
							L	272.5			
							L	272.5			
							L	277.5			
							L	277.5			
							L	277.5			
							L	277.5			
							L	277.5			
							L	282.5			
							L	282.5			
							L	302.5			

Homogenization and Salinity Data on Fluid Inclusions from the Summitville, Colorado Cu-Au-Ag Acid-Sulfate Deposit

Sample Number	Mine Area	Sample Type	Alteration Zone or Mineralization Stage	Northing	Easting	Elevation (meters)	L-V	Th	Tm	Ts	$NaCl_{equiv.}$ wt.%
SV79-1	(cont.)						L	307.5			
							L	307.5			
							L	307.5			
							L	307.5			
							L	317.5			
							L	327.5			
							L	327.5			
							L	337.5			
							L	342.5			
							L	382.5			
							V	262.5			
							V	267.5			
							V	267.5			
							V	267.5			
							V	312.5			
							V	382.5			
							V	387.5			