

APPENDIX 8

Appendix to Figure 11

Chemical composition of ore minerals according to microprobe investigation (*CAMECA SX-100*)

Element	Hedleyite		Joseite-B	Pilsenit		Tsumoite	Rucklidgeite		Tellurobismuthite			Native bismuth	Bismuthinite
[wt.%]	[Bi ₇ Te ₃]		[Bi ₄ (S,Te) ₃]	(Bi ₄ Te ₃)		Bi,Te	(Bi,Pb) ₃ Te ₄		Bi ₂ Te ₃			Bi	Bi ₂ S ₃
Bi	78.46	77.67	76.03	62.55	66.76	60.87	41.98	47.71	53.21	47.17	45.19	99.61	78.79
As	5.09	3.15	3.8	0.9	0.62	1.13	1.91	1.13	1.01	2.07	1.03	-	2.79
Cu	-	-	-	-	-	-	-	-	-	-	-	0.16	-
Fe	1.27	0.98	0.33	-	0.23	0.69	0.82	0.44	0.18	0.38	0.44	0.21	0.48
Te	18.22	19.33	6.55	34.2	34.17	39.67	41.62	45.39	45.33	52.34	55.11	-	-
Pb	-	-	-	3.3	-	-	14.05	11.02	-	-	-	-	-
S	-	-	11.13	-	-	-	-	-	-	-	-	-	18.29
Total	103.04	101.13	97.84	100.95	101.78	102.36	100.38	105.69	99.73	101.96	101.77	99.98	100.35