

Table S1. Full chemical composition (in wt%) dataset of zoisite-(Pb) and hancockite crystals shown in Figures 2 and 3.

Spot analysis	SiO ₂	Al ₂ O ₃	Fe ₂ O _{3(tot)}	CaO	MnO _(tot)	BaO	PbO	Na ₂ O	Total
<i>Hnc1</i>	30.81	20.27	7.87	11.30	0.67	0.09	28.22	0.00	98.44
<i>Hnc2</i>	30.02	20.14	7.78	11.15	0.61	0.06	30.22	0.00	99.19
<i>Hnc3</i>	30.26	20.51	7.80	11.35	0.66	0.02	28.80	0.00	98.61
<i>Hnc4</i>	30.46	20.39	7.79	11.74	0.68	0.00	27.81	0.00	98.10
<i>Hnc5</i>	32.68	21.54	7.72	13.56	0.69	0.05	22.21	0.00	97.68
<i>Hnc6</i>	31.59	21.47	7.92	13.54	0.72	0.04	23.75	0.00	98.25
<i>Hnc7</i>	31.97	21.55	8.02	13.80	0.72	0.05	22.99	0.00	98.29
<i>Hnc8</i>	31.70	21.45	7.96	13.52	0.76	0.04	23.99	0.05	98.66
<i>Hnc9</i>	32.01	21.41	7.70	13.41	0.75	0.05	24.40	0.00	98.95
<i>Hnc10</i>	30.75	20.54	7.84	11.76	0.67	0.05	28.15	0.03	99.01
<i>Hnc11</i>	30.43	20.75	7.49	11.99	0.68	0.05	28.04	0.05	98.72
<i>Hnc12</i>	31.14	20.80	7.80	12.26	0.69	0.05	24.91	0.00	96.86
<i>Hnc13</i>	31.92	20.96	7.51	12.38	0.60	0.02	26.71	0.03	99.38
<i>Hnc14</i>	30.73	20.81	7.49	11.99	0.67	0.04	26.76	0.00	97.74
<i>Zo-Pb15</i>	32.29	24.87	2.00	12.01	0.61	0.00	28.47	0.10	100.15
<i>Zo-Pb16</i>	31.42	25.19	1.75	11.90	0.64	0.00	28.93	0.10	99.75
<i>Zo-Pb17</i>	31.35	25.16	2.12	11.93	0.56	0.00	28.64	0.00	99.55
<i>Zo-Pb18</i>	31.41	24.65	2.32	11.46	0.59	0.06	30.62	0.01	100.88
<i>Zo-Pb19</i>	31.57	24.73	2.03	10.92	0.76	0.02	29.45	0.05	99.32
<i>Zo-Pb20</i>	30.44	24.57	2.33	11.15	0.71	0.09	28.87	0.01	97.93
<i>Zo-Pb21</i>	30.31	24.69	2.35	11.35	0.80	0.06	29.89	0.07	99.28
<i>Zo-Pb22</i>	29.93	24.76	1.42	10.10	0.55	0.03	32.66	0.02	99.31