

Supplementary table 2. Temperature estimate of the felsic rocks from NGP using the thermometer of Watson and Harrison (1983) and Miller et al. (2003). The uncertainty for the thermometer is  $\pm 24^{\circ}\text{C}$

Sample	RD 8	RD 25	RD 28	RD 34	RD-HG2
SiO <sub>2</sub>	61.91	69.87	69.80	66.36	69.40
TiO <sub>2</sub>	0.57	0.25	0.26	0.36	0.21
Al <sub>2</sub> O <sub>3</sub>	16.39	15.81	15.22	15.59	15.81
Fe <sub>2</sub> O <sub>3</sub>	5.86	2.23	2.99	3.93	2.99
MnO	0.13	0.02	0.07	0.07	0.07
MgO	1.46	0.55	0.61	0.88	0.49
CaO	3.09	2.04	1.69	2.38	1.73
Na <sub>2</sub> O	3.25	3.13	3.33	3.14	3.40
K <sub>2</sub> O	3.79	4.30	4.63	4.61	4.80
P <sub>2</sub> O <sub>5</sub>	0.38	0.11	0.15	0.22	0.15
LOI	2.04	0.78	0.81	0.86	0.72
Total	98.87	99.09	99.56	98.40	99.77
Zr	285	178	177	215	137
Cation fraction					
Si	0.60	0.66	0.66	0.64	0.65
Al	0.19	0.18	0.17	0.18	0.18
Ca	0.03	0.02	0.02	0.02	0.02
Na	0.06	0.06	0.06	0.06	0.06
K	0.05	0.05	0.06	0.06	0.06
M	1.54	1.29	1.35	1.46	1.35
Result					
T (°C)	828	804	799	808	777

Major elements are given in wt % and Zr content in ppm,  $M = (\text{Na} + \text{K} + 2 * \text{Ca}) / (\text{Al} * \text{Si})$ .