

Supplementary table 1. Temperature and pressure estimates of the hybrid rocks from NGP using the edenite-richterite thermometer of Holland and Blundy (1994) and Al-in-hornblende barometer of Anderson and Smith (1995). Typical temperature uncertainty is stated as + 35-40°C for this thermometer. Associated errors on the pressure estimates are ± 60 MPa

SiO ₂	39.63	38.92	39.66	38.65	41.72	41.75	41.13	39.89	42.68	38.20	39.64	41.76	41.03	38.34	41.36	41.28	42.22	42.02	41.92	41.30	40.19
TiO ₂	2.29	1.72	1.09	2.10	1.64	0.33	1.40	1.89	0.83	0.30	0.12	1.26	1.39	2.17	1.38	1.46	1.64	1.42	1.74	1.36	1.47
Al ₂ O ₃	11.68	11.45	11.65	11.59	10.18	10.42	10.66	11.42	9.74	13.30	12.97	9.10	10.51	11.72	9.36	9.58	9.09	9.57	10.17	11.28	11.95
Cr ₂ O ₃	0.01	0.03	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00
FeO	22.39	22.70	22.44	22.56	21.74	22.21	22.38	23.61	21.96	23.33	23.26	22.09	22.11	22.82	21.52	22.09	21.78	21.88	21.21	22.62	23.10
MnO	0.79	0.55	0.64	0.81	0.63	0.52	0.75	0.74	0.71	0.69	0.54	0.77	0.70	0.80	0.81	0.72	0.59	0.78	0.60	0.65	0.73
MgO	6.67	5.81	6.72	5.71	7.02	7.14	6.28	5.78	7.33	6.26	5.75	7.55	7.11	5.97	7.60	7.66	7.40	7.39	7.48	6.34	5.92
CaO	11.53	11.31	10.79	11.27	11.40	11.65	11.47	11.45	11.79	10.92	11.12	11.64	11.42	11.59	11.65	11.55	11.65	11.67	11.71	11.80	11.72
Na ₂ O	1.23	1.11	0.95	1.13	1.01	1.06	0.95	1.07	1.02	1.41	1.24	1.07	0.99	1.22	1.20	1.07	1.07	0.94	1.12	1.07	0.98
K ₂ O	1.49	1.62	1.86	1.51	1.26	1.07	1.50	1.60	1.08	1.06	1.12	1.19	1.47	1.60	1.23	1.20	1.18	1.22	1.39	1.56	1.41
Total	97.70	95.22	95.83	95.32	96.60	96.15	96.51	97.43	97.15	95.46	95.76	96.43	96.73	96.23	96.11	96.62	96.62	96.88	97.33	97.99	97.47
Results																					
T (°C)	849	807	822	822	790	763	773	820	763	845	780	819	812	838	817	841	796	796	788	767	784
P (MPa)	289	434	391	396	368	451	452	372	393	425	609	212	330	346	239	176	272	303	365	500	511