

Supplementary File 4. Compositions and conditions of the syn-plutonic lamprophyric dykes used in the model

Sample	828	828 (model)
SiO ₂ (wt%)	54.90	53.26
TiO ₂	0.60	0.58
Al ₂ O ₃	19.96	19.36
Fe ₂ O _{3t}	7.97	7.74
MnO	0.23	0.22
MgO	2.67	2.59
CaO	9.00	8.73
Na ₂ O	3.20	3.11
K ₂ O	1.24	1.21
P ₂ O ₅	0.22	0.21
H ₂ O		3%
<i>f</i> O ₂		FMQ 0
Pressure (GPa)		0.1

Major element data for models normalized to 100% including water.