Table 6. *Results of the experimental runs on the basaltic andesite composition*

Conditions of the run			Phases present						Esti-mated % of glass	R.I. garnet (±0.01)	Comments and estimated relative proportions of crystal phases present.
Pres-sure (kb)	Tempe-rature (° C)	Time (mins)									
9	1,200	60	cpx	plag				glass	75		Medium grainsize; plag ≫ cpx.
9	1,220	60	cpx	plag				glass	90		Common plagioclase, rare clinopyroxene, well crystallized; plag ≫ cpx.
9	1,240	60						glass	100		Above liquidus run.
18	1,200	60	cpx	plag	ga	qz	ore		—		Sub-solidus run, fine grained, estimate cpx > plag ≫ qz > ga > ore.
18	1,250	60	cpx	plag	ga			glass	60		Clinopyroxene crystals small, plagioclase and garnet crystals large; cpx ≫ plag ≫ ga.
18	1,280	60	cpx					glass	90		Common clinopyroxene; estimate 10% cpx.
18	1,300	50	cpx					glass	95		Minor clinopyroxene, estimate 5% cpx.
27	1,250	60	cpx		ga	qz			—		Sub-solidus run, fine grained; cpx ⋙ ga, qz.
27	1,300	55	cpx		ga	qz			—	1.765	Sub-solidus run, medium grained; cpx ⋙ ga, qz.
27	1,330	45	cpx		ga			glass	60	1.765	Medium grained clinopyroxene and garnet; cpx ≫ ga.
27	1,360	40	cpx		ga		q-px	glass	80	1.765	Well-crystallized, some minute needles of quench pyroxene; cpx > ga.
27	1,380	35	cpx		ga			glass	90	1.755	Well-crystallized; cpx > ga.
27	1,390	35	cpx		ga			glass	95		Well-crystallized, but uncommon crystals; ga > cpx.
27	1,400	30						glass	100		Above liquidus run.
36	1,380	40	cpx		ga	qz			—	1.76	Sub-solidus run, medium grained; cpx ≫ ga > qz.
36	1,440	20	cpx		ga		q-px	glass	?	1.755	Abundant primary and quench pyroxene, common garnet (15% approx.)
36	1,460	20	cpx		ga		q-px	glass	?	1.75	Abundant primary and quench pyroxene, common garnet (12% approx.).
36	1,475	15	cpx		ga		q-px	glass	?	1.75	Rare primary clinopyroxene (difficult to identify because of abundant quench-pyroxene), common garnet (6% approx.).

Table 7. *Results of the experimental runs on the andesite (quartz diorite) composition*

Conditions of the run				Phases present					Estimated % of glass	R.I. garnet (±0.01)	Comments and estimated relative proportions of crystal phases present
Pressure (kb)	Temperature (° C)	Time (mins)	Dry or Wet[a] (D or W)								
18	1,000	240	W	cpx	plag	ga	qz		—		Sub-solidus run, fine grained except for medium sized garnet crystals; plag > qz > cpx ≫ ga.
18	1,220	60	D	cpx	plag	ga	qz	glass	60		Medium grained; plag ≫ cpx > qz > ga.
18	1,260	60	D		plag	ga		glass	85		Common well crystallized plagioclase, rare large garnets; plag ≫ ga.
18	1,275	60	D					glass	100		Above-liquidus run.
22.5	1,000	240	D	cpx	plag	ga	qz		—		Sub-solidus run, fine grained; qz > cpx > pl ≫ ga.
22.5	1,300	60	D	cpx		ga		glass	95	1.77	Well-crystallized; ga > cpx.
27	1,000	240	W	cpx	felds	ga	qz		—		Sub-solidus run, fine grained except for medium sized garnet crystals; qz, cpx ≫ ga > felds.
27	1,000	240	D	cpx	felds	ga	qz				Indistinguishable from above wet run at same P—T conditions.
27	1,150	60	D	cpx	felds	ga	qz				Fine grained pyroxene and low R.I. phase; medium grained garnet; qz, cpx > ga > felds.
27	1,240	60	D	cpx	plag	ga	qz		—		Probable near-solidus run, medium grainsize; qz, plag > cpx, ga.
27	1,280	60	D	cpx	plag	ga	qz	glass	20		Medium grainsize, similar to above run except qz, plag proportion slightly smaller relative to cpx, ga but qz, plag > cpx, ga in this run also.
27	1,320	60	D	cpx		ga	qz	glass	60	1.765	Well crystallized; cpx ≫ ga ≫ qz.
27	1,340	60	D			ga		glass	95	1.765	Uncommon, very well crystallized garnet.
31.5	1,000	240	W	cpx	felds	ga	qz				Sub-solidus run, fine grained except for medium grained garnet; qz > cpx > ga ≫ felds
36	1,340	30	D	cpx	felds	ga	qz	?glass	?		Uncertain solidus run, may be very minor melting, medium grained; qz > cpx > ga ≫ felds.
36	1,400	30	D	cpx		ga	qz	glass	40	1.765	Well crystallized; cpx ≫ ga ≫ qz.
36	1,420	20	D	cpx		ga		glass	90	1.765	Large garnet crystals, small pyroxene crystals; ga ≫ cpx.
36	1,440	15	D			ga		glass	95	1.76	Large garnet crystals, uncommon.

[a] In these wet runs no water added to mix, dried pyrophyllite spacer used.