

Table 4. Results of the experimental runs in the 27–36 kb range on the high-alumina olivine tholeiite composition. Results of runs at 18 kb are given elsewhere (T. H. GREEN, 1968)

Conditions of the run			Phases present	Esti- mated % of glass	R. I. ( $\pm 0.01$ )	Comments and esti- mated relative propor- tions of crystal phases present
Pres- sure (kb)	Temp- erature ( $^{\circ}$ C)	Time (mins)				
27	1,360	60	cpx ga q-px glass	?	1.74	Well crystallized, large primary crystals, quench pyroxene common; cpx > ga
27	1,400	40	cpx ga q-px glass	?	1.745	Well crystallized, euhedral garnet and stubby clinopyroxene; cpx > ga
27	1,420	30	cpx ga q-px glass	?	1.74	Well crystallized, (as above); cpx > ga
27	1,430	25	cpx ga q-px glass	?	1.74	Moderately common primary cpx, uncommon garnet; cpx > ga
27	1,435	30	cpx q-px glass	?		Moderate amount of primary cpx, no ga observed
27	1,440	30	glass	100		No crystals evident, above liquidus
36	1,520	15	cpx ga q-px glass	?	1.74	Well crystallized stubby primary cpx and euhedral ga, cpx > ga
36	1,535	10	cpx ga q-px glass	?		Minor euhedral garnet, rare primary clinopyroxene; ga > cpx.

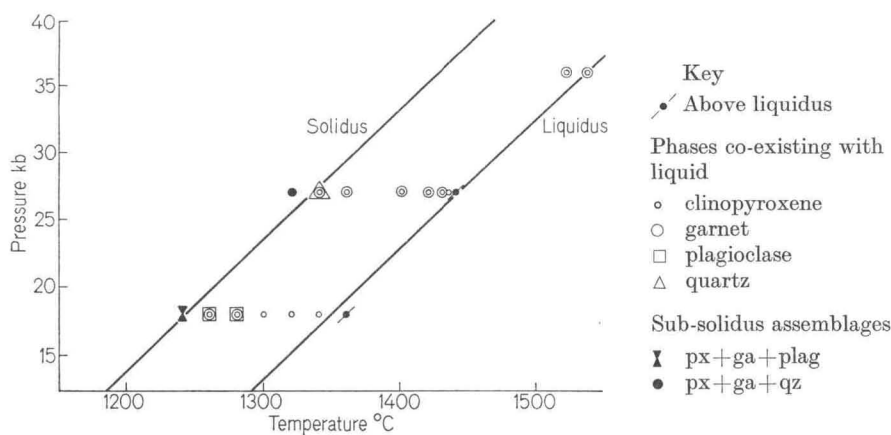


Fig. 1. Results of the experimental runs on the high-alumina olivine tholeiite composition

Experimental runs on the high-alumina quartz tholeiite composition under dry conditions

Phases present	Estimated % of glass	R.I. garnet ( $\pm 0.01$ )	Comments and estimated relative phases present
cpx plag ga qz ? ore			Sub-solidus run, moderate grain size, accessory opaque minerals and very minor quartz.
cpx plag ga glass	35	1.77	Abundant moderate sized pyroxene, large garnet and plagioclase base; $\text{cpx} \gg \text{plag} > \text{ga}$
cpx glass	85		Common clinopyroxene; estimated
cpx glass	99		Rare clinopyroxene, very near liquidus
cpx glass	100		Above-liquidus run.
cpx ga qz	—		Sub-solidus run, fine grained; garnet
cpx ga glass	20	1.765	Moderate grain size; $\text{cpx} \gg \text{ga}$ .
cpx ga glass	65	1.755	Well crystallized; $\text{cpx} \gg \text{ga}$ .
cpx ga q-px glass	?	1.76	Common clinopyroxene, minor garnet; $\text{cpx} > \text{ga}$ .
cpx ga q-px glass	?		Common clinopyroxene, quenched garnet.
cpx q-px glass	?		Rare primary clinopyroxene, very near liquidus
cpx ga qz ? q-px	?	1.76	Abundant primary clinopyroxene, common garnet (5% approx.) and quartz.
cpx ga q-px glass	?	1.755	Common primary and quenched garnet (10% approx.)
cpx ga q-px glass	?	1.75	Common primary and quenched garnet (5% approx.).
cpx ga q-px glass	?	1.75	Common quenched pyroxene, unquenched clinopyroxene and garnet (3% approx.)