

Table 2
Electron microprobe analyses of clinopyroxenes and orthopyroxenes from selected wet runs.

Composition	High alumina quartz tholeiite										
	10 kb 920°C 7½ hr WET	10 kb 960°C 4 hr WET	9 kb 1040°C 4 hr WET	9 kb 1040°C 4 hr WET	10 kb 920°C 7½ hr WET	10 kb 960°C 4 hr WET	9 kb 1040°C 4 hr WET	9 kb 1040°C 4 hr WET	10 kb 960°C 4 hr WET	10 kb 940°C 6 hr WET	10 kb 960°C 4 hr WET
Conditions of run	Runs conducted in platinum capsules				Analyses adjusted for iron loss				Runs conducted in graphite capsules		
	amph *, opx, plag *	amph *, opx	amph *, opx *	amph *, cpx *	amph *, opx, plag *	amph *, opx	amph *, opx *	amph *, cpx *	opx *, ilm	amph *, opx, ilm	cpx *, ilm
SiO ₂	47.2	48.0	47.3	47.5	46.7	47.5	46.8	46.3	51.7	52.0	49.4
TiO ₂	1.6	1.6	1.7	0.8	1.6	1.6	1.7	0.8	1.2	0.9	0.6
Al ₂ O ₃	10.0	10.6	8.6	7.5	9.9	10.5	8.5	7.3	9.2	11.3	8.4
FeO	7.0	6.1	5.8	11.8	9.0	7.9	7.6	15.4	6.4	8.3	11.1
MgO	11.6	11.9	14.9	26.6	10.5	10.9	13.9	24.5	13.6	13.8	27.9
CaO	21.6	18.7	20.1	1.7	21.4	18.5	19.9	1.7	19.7	19.8	1.4
Na ₂ O	0.7	0.7	0.6	—	0.7	0.7	0.6	—	0.1	0.2	—
	99.7	97.6	99.0	95.9	99.8	97.6	99.0	96.0	101.9	106.3	98.8
100 Mg Mg + Fe	74.7	77.7	82.1	80.1	67.5	71.1	76.5	73.9	79.1	74.8	81.7
Formula 6 [0]											
Si	1.7543	1.7922	1.7567	1.7722	1.7500	1.7888	1.7532	1.7588	1.8430	1.7904	1.7754
Al ^z	0.2457	0.2078	0.2433	0.2278	0.2500	0.2112	0.2468	0.2412	0.1570	0.2096	0.2246
Al	0.1921	0.2585	0.1330	0.1018	0.1874	0.2586	0.1283	0.0857	0.2295	0.2490	0.1313
Ti	0.0447	0.0448	0.0475	0.0224	0.0450	0.0453	0.0480	0.0228	0.0321	0.0234	0.0162
Fe	0.2176	0.1905	0.1801	0.3682	0.2822	0.2490	0.2382	0.4892	0.1909	0.2386	0.3337
Mg ^{x+y}	0.6428	0.6626	0.8252	1.4800	0.5867	0.6122	0.7765	1.3878	0.7231	0.7086	1.4952
Ca	0.8600	0.7479	0.7998	0.0679	0.8593	0.7465	0.7985	0.0692	0.7525	0.7303	0.0540
Na	0.0505	0.0507	0.0433	—	0.0509	0.0512	0.0437	—	0.0068	0.0132	—
x	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
x + y	2.01	1.96	2.03	2.04	2.01	1.96	2.03	2.05	1.94	1.96	2.03
At. Prop.											
Mg	37.4	41.4	45.7	77.3	34.0	38.1	42.8	71.3	43.4	42.2	79.4
Fe	12.6	11.9	10.0	19.2	16.3	15.5	13.1	25.1	11.5	14.2	17.7
Ca	50.0	46.7	44.3	3.5	49.7	46.4	44.1	3.6	45.1	43.6	2.9

* Denotes co-existing phase analyzed.