

SUPPLEMENTARY TABLE 3. MINERALS ENCOUNTERED IN AND NEAR
AEGIRINE-AUGITE IN THE CALCITE-FLUORITE DIKE

	Early minerals	Late minerals
	Dwyer mine 2B	
#28	AeAu, Cal, Fl, Hem	Qtz, Bri-(Y), Cch
#30	AeAu, Cal, Hem, Ap	Qtz, Cch, Ytt-(Y)
#31	AeAu, Cal	Aln-(Ce), Cch, Py, Hem, Bri-(Y)
#32	AeAu, Cal, Qtz, Ttn, Hem	
#33	AeAu, Cal, Qtz, Ttn, Hem	
#34	AeAu, Cal, Qtz, Ttn, Hem, K-, Cl-bearing Amp	
#35	AeAu, Cal, Qtz, Ttn, Hem, K-, Cl-bearing Amp	
#36	AeAu, Cal, Fl, Qtz, Hem, K-, Cl-bearing Amp	Qtz
#37	AeAu, Cal K-, Cl-bearing Amp	Qtz, Cch, Hem,
#38	AeAu, Cal, Qtz, Hem	
#39	AeAu, Cal, Fl, Qtz, Hem, Amp	
#40	AeAu, Cal, Fl, Qtz, Ttn	Cch, Qtz
#41	AeAu, Qtz, Ttn, Kfs, Hem	Qtz, Cal
#42	AeAu, Cal, Fl, Qtz	Aln-(Ce), Bri-(Y), Hem
#43	AeAu, Cal, Fl, Kfs, Hem	
#44	AeAu, Cal, Fl, Qtz, Hem	
#45	Cal, Qtz	Bri-(Y), Zrn, Chm
#46	Cal, Qtz	Bri-(Y), Zrn
#47	Cal, Qtz	Xnt-(Y)
#48	Cal, Qtz	Xnt-(Y), Cay-(Y)
#49	Cal, Ap	
#50		Urn, Hem, Chm

The micro-inclusions range from 30 to 100 μm across. The early minerals are considered to have crystallized from a globule of boundary-layer melt incorporated in the crystal of aegirine augite as it grew. In #36, globules do not all contain amphibole with the same Fe/Mg value. The late minerals are considered to be secondary, *i.e.*, crystallized from an aqueous fluid phase. Symbols: AeAu: aegirine-augite, Aln-(Ce): allanite-(Ce), Amp: amphibole, Ap: fluorapatite, Bri-(Y): britholite-(Y), Cal: calcite, Cay-(Y): caysichite-(Y), Chm: chamosite, Cch: clinocllore, Fl: fluorite, Hem: hematite, Kfs: K-feldspar, Py: pyrite, Qtz: quartz, Syn-(Ce): synchysite-(Ce), Ttn: titanite, Urn: uraninite, Xnt-(Y): xenotime-(Y), Ytt-(Y): yttrialite-(Y). Note that the amphibole is K- and Cl-bearing.