

FERROCOLUMBITE



The niobian and iron end-member of the columbite-tantalite series. Occurs chiefly in granitic pegmatites. Northern Peninsula.

Dickinson County: Quarry in SE ¼ section 19, T42N, R29W, Randville area: In a post-Animikie pegmatite about 1 km north of the Groveland mine with quartz, feldspars, beryl, micas, tourmaline, and garnet as crystals up to 5 cm long in the core of the pegmatite (James et al., 1961). A nearby (or identical) locality 0.4 km east of the Groveland mine is reported by Pratt (1954), who notes a partly faced crystal 7.5 cm long.

Marquette County: 1. Republic area, NE corner section 7, T46N, R29W: In small amounts in pegmatite with quartz, microcline, and muscovite (Snelgrove et al., 1944). 2. Crockley pegmatite, SE ¼ section 22, T47N, R29W: as tiny black subhedral grains with muscovite in granular fluorite in pegmatite. Identification confirmed by energy dispersion X-ray spectrometry. 3. Approximately 3.2 km south of Humboldt in a rare metal-rich body of albite granite with accessory euxenite-(Y), cassiterite, thorite, molybdenite, topaz, and fluorite (Hoffman, 1987; Schulz et al., 1988).

FROM: Robinson, G.W., 2004 *Mineralogy of Michigan* by E.W. Heinrich updated and revised: published by A.E. Seaman Mineral Museum, Houghton, MI, 252p.