PIGEONITE

$(Mg,Fe^{2+},Ca)(Mg,Fe^{2+})Si_2O_6$

A member of the pyroxene group occurring mainly as a rock-forming mineral in the matrix of fine-grained basalts and andesites, thus normally microscopic in size. Northern Peninsula.

Dickinson County: Metronite quarry, 4 km east-northeast of Felch: Reported in Randville Dolomite (marble) by Dorr and Eschman (1970) but not verified.

Iron County: 1. Halfway between Crystal Falls and Iron River in section 25, T43N, R34W: Relict in greenstone (James, 1955). **2.** Gair and Wier (1956) report "pigeonitic pyroxene" in a diabase dike that cuts the Hemlock Formation in SW ¼ section 10, T44N, R31W, Kiernan quadrangle: Possible, but no data are given to support this identification.

Keweenaw County: Various localities: Found in some flows of ophitic basalt. These rocks usually have augite as the principal or only pyroxene, but certain flows carry small amounts of "hypersthene" and pigeonite (Cornwall, 1951b).

Ontonagon County: Near Bergland: Both augite and pigeonite occur in basalt (Leonardson, 1966).

Marquette County: Pigeonite occurs with phenocrysts of plagioclase of variable composition, olivine, and augite in diabase dikes of Keweenawan age west of Marquette (Burgess et al., 1986).

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