

(Caption to Fig.8)

FORMATION OF WRIGGLITE BY DIFFUSION PROCESS.

Fractures, through which mineralizing fluid infiltrates, traverse limestone (A). At right angles to the direction of infiltration, components of the fluid diffuse into the limestone and replacement takes place to build up layers of magnetite, fluorite, etc, as outlined in the text. A later fracture, heavy lines in (C), passes through both limestone and previously formed wrigglite. Only limestone is replaced when components diffuse from this new fracture, and so the geometry in (C) is built up.

Many of the fractures are pipe-like in shape, (D). The wrigglite so formed from pipe P_1 by diffusion is like that in (E). Subsequently formed wrigglite from pipe P_2 impinges on the previously formed wrigglite to form "unconformable" geometric relationships, (F).

The geometry of (G) is sometimes seen in the wrigglites. This can only form when P_1 and P_2 are contemporaneous and diffusion takes place from both simultaneously.