Volcanogenic barite, Fe and Mn oxide and massive sulphide mineralization at Cini area, Pahang Darul Makmur

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This paper represents a preliminary report on the volcanogenic barite-Fe & Mn oxide-massive sulphide mineralization at Bukit Botol, Cini, Pahang Darul Makmur.

Ferruginous bedded barite underlies a hanging wall of metasediments and is in turn underlain stratigraphically by bedded, manganese-rich iron oxides, mainly hematite, probably as martitized magnetite. The dark ferruginous barite is cut by veinlets of coarse crystalline barite, probably remobilised by a very local lateral secretion process or metamorphism.

Footwall metasediments underlie the manganese-iron rich unit and this is in turn underlain deeper in the succession by tuff and associated massive, banded sulphide mineralization. This consists of massive pyrite on top, followed by pyrite-quartz-sphalerite, pyrite-pyrrhotite-chalcopyrite and stratigraphically lower are alternating layers of pyrite-quartz mineralization.

The lower massive sulphides are cut by a network of disseminated stringers of chalcopyrite, bornite and supergene covellite and this is in turn underlain by intense silification.

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