SULPHIDE OCCURRENCES IN THE SERPENTINITES-CHROMITITES OF THE ERETRIA AREA

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Sulpide occurrences located in three chromite-bearing localities (Mavros Mine, Kastraki 3 and Eretria village) in the Eretria area, are described and compared in this paper.

The most important sulphide mineralization occurs in the Mavros Mine, located in the outer part of the chromite ore bodies, as well as, in the sliding planes of serpentinite. The mineralization is characterized by high Cu content and consists mainly of pyrrhotite and chalcopyrite. Pentlandite (Co), valiantite, ilvaite are found in minor amounts, while sphalarite, cubenite, mackinawite, pyrite, millerite are quite rare.

In Kestraki 3 end Eretria villege, where ore dritting was carried out by IGME, sulphide minerelization compared with that of Mavro, is less developed, showing different mineralogical composition. The ebsence of Cu minerals and the presence of Sb and As minerals is quite characteristic. The sulphide mineralization is located in strike slip-mylonite zones of the chromite ore, as well as in the serpentinites. Its metallic paragenesis consists of pentlandite (\pm Co), millerite, heazlewoodite, niccolite, breithauptite, vallerite, marcasite, orcelite, Ni-cobaltite, while pyrrhotite and chalcopyrite are absent. The similarities between the sulphide concentrations occurring in the Kastraki and Eretria localities, support the opinion that in these two cases, they belong to an extension of the same chromite-bearing formation. Serpentinization solutions are responsible for the mineralization.

In the Mavro locality, the mineralization composition (high Cu/Cu + Ni ratio, incompatible with ultrabasic rocks) requires an intense meta-magmatic hydrothermal activity. The responsible solutions could be the same with those related to serpentinization, mixed with seawater. These solutions could have been helped by the intense thrusting tectonics. Alternatively, hydrothermal-activity may be related to later magmatic processes (i.e. mafic dikes or igneous intrusion) into the already serpentinized peridotile.

NEOGENE AND QUATERNARY PYROCLASTICS ON THE TERRITORY OF BULGARIA - A REVIEW AND NEW DATA

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A number of occurrences of Neogene and Quaternary pyroclastics of unknown origin are established in Bulgaria.