

Hydrotermálna Pb-Zn polymetalická mineralizácia na lokalite Marianka (Malé Karpaty), Slovenská republika

Hydrothermal Pb-Zn base-metal mineralization at the Marianka locality, the Malé Karpaty Mts. (Slovak republic)

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Abstract

The Pb-Zn mineralization occurrence at the Marianka village (SW Slovakia) is hosted by Paleozoic metapelitic rocks of the Tatric Unit. The mineralization occurs in quartz-carbonate-sulphidic lenses. Sphalerite and galena are the most abundant ore minerals, accompanied by bournonite, boulangerite, meneghinite, pyrite, chalcopyrite, tetrahedrite, marcasite and pyrrhotite. Quartz is the main gangue mineral. The other non-sulphidic minerals are calcite, ankerite, siderite and dolomite. Microthermometric measurements of fluid inclusions in quartz suggest that Pb-Zn mineralization was deposited probably from the low to middle salinity fluids of two generations (\varnothing 5.1 and 18.8 wt.% NaCl eq.) at minimum temperature range of 100 - 150°C. The mineralization have 2 stages: 1. Carbonate-quartz and 2. Sulphidic, represented by older paragenese (pyrite-chalcopyrite-sphalerite) and younger sulphosalts-galena mineral assemblage (with boulangerite, bournonite and meneghinite).

Key words: base-metal mineralization, sphalerite, galena, Pb-Sb sulfosalts, meneghinite, tetrahedrite, fluid inclusions, Marianka, Malé Karpaty Mts.

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