

Tetraedrit z Únětic - Holého vrchu u Prahy jako zdroj mědi supergenní mineralizace s azuritem a malachitem v proterozoických břidlicích

Tetrahedrite from Únětice - Holý vrch near Prague, a probable source of copper for supergene mineralization with azurite and malachite in Proterozoic shales

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Abstract

The Únětice - Holý vrch site is one of five known occurrences of azurite and malachite in Proterozoic sedimentary rocks north of Prague. A grain of tetrahedrite 500 μm in size, partly replaced by supergene products (azurite, Cu-enriched "limonite", and a Cu-Fe oxide with composition close to delafossite), was found in the matrix of Proterozoic shale from this site. This mineral is a probable source of copper for supergene Cu-mineralization which was formerly found as coatings of azurite and malachite in joints of shales. Analyzed grain of tetrahedrite gave an empirical formula $(\text{Cu}_{5.99}\text{Ag}_{0.01})_{\Sigma 6.00}[\text{Cu}_{4.00}(\text{Fe}_{1.53}\text{Cu}_{0.44}\text{Pb}_{0.02}\text{Hg}_{0.01})_{\Sigma 2.00}]_{\Sigma 6.00}(\text{Sb}_{3.73}\text{As}_{0.26})_{\Sigma 3.99}(\text{S}_{13.07}\text{Se}_{0.05})_{\Sigma 13.12}$.

Key words: tetrahedrite, delafossite, azurite, malachite, Teplá-Barrandian Unit, Proterozoic, Bohemian Massif, Czech Republic

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