

Výskyt Cu-mineralizace v permském melafyru od Košťálova u Semil (podkrkonošská pánev, Česká republika)

Occurrence of Cu-mineralization in the Permian basaltic intrusion from Košťálov near Semily (Krkonoše-piedmont Basin, Czech Republic)

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Abstract

The Cu-mineralization in the big quarry near Košťálov, north-east Bohemia (Czech Republic), discovered in the 2010, is composed of djurleite, brochantite, and chrysocolla. It is present in the small veinlets of montmorillonite with the admixture of barite and calcite. These veinlets penetrate the Permian basaltic intrusive rock, which is in the Permo-Carboniferous Krkonoše-piedmont Basin called melaphyre. The minerals were identified by X-ray powder diffraction and qualitative energy-dispersive microanalyses. The Cu-mineralization developed probably from copper ores in the underlying Upper Carboniferous sediments by mobilization and regeneration.

Key words: *Cu-mineralization, djurleite, brochantite, chrysocolla, barite, Košťálov, Krkonoše-piedmont Basin, Czech Republic*