

Výskyt zlata v regionu Starého Města pod Sněžníkem (Česká republika)

Gold in the wide area of the Staré Město pod Sněžníkem (Czech Republic)

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Abstract

Remnants after old mining of gold from alluvial deposits occur at two sites in the surroundings of the Staré Město pod Sněžníkem (i.e., sites Květná and Andělské údolí). However, nothing is known about primary gold mineralization in this area. New detailed investigation of the Květná site resulted in the discovery of a primary gold mineralization hosted by steep NNW-SSE trending quartz veins cutting amphibolites and gneisses of the Staré Město Unit. The vein composed of two types of quartz containing disseminated grains of ore minerals including hematite, chalcopyrite, bornite, pyrite and native gold. Exceptionally barite, covellite, rutile, chlorite and an unknown Ag-bearing Cu-Fe sulphide were also found. The gold contents in the vein are variable and generally low (< 2.5 ppm). Gold sheets reach up to 0.3 mm in size and their fineness range between 780 and 931. In contrast, alluvial gold is much coarse-grained (up to 5 mm), often zoned (with gold-rich rims) and with more variable fineness (604 - 993). Therefore, it is probable that the source of alluvial gold was different from those occurring in the investigated quartz veins.

Key words: gold, electrum, primary gold mineralization, chemical composition, Staré Město Crystalline Complex

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