

Zlatonosná mineralizace v okolí Horské Kvildy na Šumavě, Česká republika

The gold-bearing mineralization in Horská Kvilda area, the Šumava Mountains,
Czech Republic

VLADIMÍR ŠREIN¹⁾, JIŘÍ LITOCHEB²⁾, BLANKA ŠREINOVÁ²⁾, MARTIN ŠŤASTNÝ¹⁾, BLAHOŠLAV KOLMAN³⁾,
DALIBOR VELEBIL²⁾ A KAMIL DRYÁK²⁾

¹⁾ Ústav struktury a mechaniky hornin AV ČR, v.v.i., V Holešovičkách 41, 182 09 Praha 8

²⁾ Národní muzeum, Václavské náměstí 68, 115 79 Praha 1

³⁾ Ústav fyziky plazmatu AV ČR, v.v.i., U Slovanky 1770/3, 182 00 Praha 8

ŠREIN V., LITOCHEB J., ŠREINOVÁ B., ŠŤASTNÝ M., KOLMAN B., VELEBIL D., DRYÁK K. (2008): Zlatonosná mineralizace v okolí Horské Kvildy na Šumavě, Česká republika. - *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha)* **16/2**, 153-176. ISSN: 1211-0329.

Abstract

Researched large hollows located in the forestry area of Šumava Mts. (SW Bohemia, Czech Republic) between Zhůří and Horská Kvilda villages are supposed to be a primary area of adjoining medieval gold placers. Hollows line structures are several hundred meters long. They represent old mines extracting gold-bearing quartz veins and quartz-cemented vein breccia or gold-bearing quartz strings in elongated tourmaline-bearing granite bodies. Granite bodies intruded along fault structures of the N - E or subordinately of the SW - NE extent. Gold appears related to the fine-grained quartz varieties with arsenopyrite accumulations. Arsenopyrite often also impregnates foliation planes of adjacent silimanite-biotite migmatites. The gold is accompanied by native bismuth, bismuthinite, joséite B and some Bi-Te mineral phases. Skorodite, pharmakosiderite, rooseveltite and waylandite accompanied by „limonite” represent secondary mineral phases. Adjoined placers have been proved the analogue mineral paragenesis. Research has been confirming highly variable gold content and anthropogenic arsenic pollution of the soil. An interesting area of the mined auriferous primary deposit together with adjoined gold-bearing placers in high latitude represents a unique old mining area which should be deeply protected.

Key words: gold mining, geology, petrology, mineralogy, gold, Bi-minerals, chemical composition, Horská Kvilda, the Šumava Mts., Czech Republic