PŮVODNÍ PRÁCE/ORIGINAL PAPER

# Nově zjištěná Bi-Co-Ni-As-U-V mineralizace přísečnického rudního revíru v Krušných horách (Česká republika)

## The recently found Bi-Co-Ni-As-U-V mineralization of the Přísečnice ore district, Krušné hory Mountains (Czech Republic)

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### Abstract

New finds of primary and supergene Bi-Co-Ni-As-U-V mineralization in the Přísečnice ore district, Krušné hory Mountains (Czech Republic) are described in this paper. The studied mineralization was found at small mine dump located in the peripheral part of this historical ore district, about 200 m E from eastern margin of the Přísečnice dam. The primary mineralization is represented by native bismuth, bismuthinite, galena, chalcopyrite, pyrite, nickeline, nickel-skutterudite, rammelsbergite, safflorite, skutterudite and stibnite in quartz gangue. The fragments of strongly supergene altered rocks with V-rich phyllosilicates were also found in mine dump material. The abundant supergene mineralization is represented by elements and sulfides (acanthite, copper, silver); Bi-minerals (atelestite, bismite, bismutite, eulytine, kettnerite, mixite, preisingerite, rooseveltite, unnamed $(BiO)_6(OH)_3(AsO_4)$ and zavaritskite); Fe-Ni arsenates (annabergite, bariopharmacosiderite-Q, parasymplesite, scorodite) and U-minerals (francevillite, metatyuyamunite, zeunerite). Arsenolite, goethite, cuprite and mimetesite were also found in the association. The detailed descriptions, X-ray powder diffraction data, refined unit-cell parameters and quantitative chemical composition of individual mineral phases are given.

***Key words:*** *Bi-Co-Ni primary minerals, U-V mineralization, Bi supergene minerals, U supergene minerals, Fe-Ni supergene minerals, powder X-ray diffraction data, unit-cell parameters, chemical composition, Přísečnice, Czech Republic*

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