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PŮVODNÍ PRÁCE/ORIGINAL PAPER

Krystalovaný baryt z Otrokovice (flyšové pásmo Vnějších Západních Karpat, Česká republika)

**Baryte crystals from Otrokovice
(Flysch Belt of the Outer Western Carpathians, Czech Republic)**

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Abstract

A new locality of baryte was discovered NE from the Otrokovice town, southeastern Moravia, Czech Republic. The studied sample was collected by Vítězslav Skácel in 2003 during excavations associated with construction of highway D55. Isolated tabular baryte crystals up to 3 mm in size overgrow calcite crystals in a vug of calcite vein cutting Paleogene sandstones belonging to the Vsetín Member of the Zlín Formation, Rača Unit, Flysch Belt of the Outer Western Carpathians. Baryte crystals are zoned in terms of both colour (white core and colourless margin) and chemical composition. A distinct oscillatory zoning due to variable Sr contents is observed on BSE images of the studied baryte crystals, with 0.0 to 8.0 mol. % of the celestite component. The associated rhombohedral calcite crystals are characterized by elevated admixtures of Fe and Mn (2.0 - 2.4 mol. % of siderite and 0.6 - 0.9 mol. % of rhodochrosite components). The study site represents a new locality of epigenetic baryte mineralization, which is relatively rarely reported from the siliciclastic sediments of the Czech part of the Flysch Belt.

Key words: *Flysch Belt, Outer Western Carpathians, Rača Unit, hydrothermal veins, baryte, calcite*

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