

## Retgersit z ložiska Rudňany (Slovenská republika)

### Retgersite from the Rudňany deposit (Slovak Republic)

MARTIN ŠTEVKO<sup>1,2)\*</sup>, JIŘÍ SEJKORA<sup>1)</sup> A PAVEL ŠKÁCHA<sup>1)</sup>

<sup>1)</sup>Mineralogicko-petrologické oddělení, Národní muzeum, Cirkusová 1740, 193 00 Praha 9 - Horní Počernice, Česká republika; \*e-mail: msminerals@gmail.com

<sup>2)</sup>UK Mining Ventures Ltd., No. 1, The Old Coach Yard, East Coker, Somerset, BA22 9HY, Great Britain

ŠTEVKO M, SEJKORA J, ŠKÁCHA P (2019) Retgersit z ložiska Rudňany (Slovenská republika). Bull Mineral Petrolog 27(1): 167-171 ISSN 2570-7337

#### Abstract

A relatively rare hydrated sulphate of Ni, retgersite, was identified on the ore samples originating from the crosscut P-3, located on the 16<sup>th</sup> level of the Zlatník vein, Rudňany deposit, Slovak Republic. Retgersite is rare and occurs on the surface of fragments of siderite gangue with abundant aggregates of coarse-grained gersdorffite. It forms light blue to blue-green, often curved fibrous to crystalline aggregates up to 3 mm in size with vitreous lustre, which are grouped to rich crust and efflorescences growing directly on surface of gersdorffite. Retgersite was identified by PXRD and its refined unit-cell parameters (for the tetragonal space group  $P4_12_12$ ) are:  $a$  6.7820(5) Å,  $c$  18.281(2) Å and  $V$  840.8(1) Å<sup>3</sup>. Results of semiquantitative chemical analysis (EDS) as well as vibrational spectra (Raman, infrared) including their tentative assignments are also given. Retgersite from the Rudňany deposit was formed as a product of post-mining decomposition of gersdorffite.

**Key words:** *supergene minerals, sulphates, retgersite, X-ray powder data, Raman spectrum, infrared spectrum, Rudňany, Slovak Republic*

Obdrženo 17. 4. 2019; přijato 14. 6. 2019