

Mottramit z vápencového kamenolomu Smrčník, Horní Lipová u Jeseníku (Česká republika)

Mottramite from the limestone quarry Smrčník, Horní Lipová near Jeseník (Czech Republic)

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PAULIŠ P., TOEGEL V., VESELOVSKÝ F., FRANČ J. (2009): Mottramit z vápencového kamenolomu Na Pomezí, Horní Lipová u Jeseníku (Česká republika). - *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha)* **17/2**, 69-72. ISSN: 1211-0239.

Abstract

Supergene Pb-Cu vanadate mottramite was found in the limestone quarry Smrčník near Horní Lipová, Silesia, Czech Republic. The mineral forms black-brown, locally slightly greenish and brown translucent coatings consisting of tiny (ca 0.05 mm, max. 0.15 mm large) semi-spheroidal aggregates that rest on fractures filled with cavernous quartz gangue with galena. Mottramite crystal formula corresponds to $\text{Pb}_{1.008}(\text{Cu}_{0.955}\text{Zn}_{0.002}\text{Ca}_{0.072})_{\Sigma 1.029}(\text{V}_{0.887}\text{P}_{0.100})_{\Sigma 0.987}\text{O}_{4.000}(\text{OH})_{1.00}$. Its XRD data suit with those of mottramite given in literature. It is the fifth occurrence of this rare mineral in the Czech Republic.

Key words: mottramite, limestone quarry Smrčník, Horní Lipová near Jeseník, Silesia, Czech Republic