

MSc thesis

“The prospect of cobalt occurrences in the Stara Kamienica Range (East part)”, Paulina Skirak, AGH.

Abstract: Among the finds is identification of Co-hosting phases as not only cobaltite CoAsS but also Co-arsenopyrite and Co-löllingite, where cobalt occurs in the form of izomorphic admixtures. (One of the most promising areas occurrence of cobalt in Poland is the Kamieniec range, more precisely around the village of Przecznicza. Once there was exploitation of cobalt ores, mainly from the Anna Maria adit. Samples for microscopic and micro-area examinations were obtained from one of post-mining heaps, located at the Anna Maria fall tunnel. The purpose of this work was the recognition of Co mineral accumulations that occur in quartz mica schists of the Stara Kamienica can be considered as prospective area. To sum up, the polymetallic deposits of the of the Stara Kamienica schist belt were established in as a result of metasomatic-hydrothermal changes that took place thanks to intrusions granites and tectonic movements. The three stages of mineralization have been identified. The last stage contains the most interesting association of cobaltite-gersdorffite minerals, Bismuthinite and Bi-native.