

## 新疆谢米斯台地区首次发现自然铜矿化

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中文摘要: 首次在新疆谢米斯台地区玄武岩中发现自然铜矿化, 伴生自然银。同时在区内酸性次火山岩中发现黄铜矿、斑铜矿矿化。自然铜矿化主要发育于蚀变玄武岩及其中的晚期脉中, 矿化与绿帘石化、碳酸盐化、葡萄石化、沸石化、硅化等关系密切。初步研究表明, 区内自然铜、自然银矿化与火山热液作用有关, 属于火山岩型; 黄铜矿、斑铜矿矿化属于斑型。谢米斯台地区可能存在多种铜矿化类型, 有望取得铜矿找矿新突破。

中文关键词: [自然铜](#) [谢米斯台](#) [新疆](#)

## The First Discovery of Native Copper in Xiemisitai Area, Xinjiang

**Abstract:** The native copper mineralization associated with native silver was found for the first time in basalts of Xiemisitai area, Xinjiang, and chalcopyrite and bornite mineralization was found in acidic subvolcanic rocks in the same area. The native copper mineralization occurs mainly in the altered basalts and the late hydrothermal veins in the basalts. The mineralization is closely related to epidotization, carbonation, prehnitization, zeolitization and silicification. Preliminary studies suggest that the native copper silver mineralization is related to volcanic hydrothermal activity and belongs to volcanic rock type, while the chalcopyrite and bornite mineralization belongs to porphyry type. There may be a variety of copper mineralization types in Xiemisitai area, and it is expected that new breakthrough can be made in further copper prospecting.