



田毓龙, 包国忠, 汤中立, 王玉山. 金川铜镍硫化物矿床岩浆通道型矿体地质地球化学特征[J]. 地质学报, 2009, 83(

金川铜镍硫化物矿床岩浆通道型矿体地质地球化学特征 [点此下载全文](#)

[田毓龙](#) [包国忠](#) [汤中立](#) [王玉山](#)

金川集团有限公司, 金川集团有限公司, 长安大学国土资源学院, 金川集团有限公司

基金项目: 国家科技攻关计划

DOI:

摘要点击次数: 244

全文下载次数: 246

摘要:

金川铜镍硫化物矿床6行富铜(铂族)矿体曾因Cu、Pt、Pd等含量明显高于相邻其它矿体而被认为是岩浆发现,空间上该矿体受断层构造控制,在矿石结构、矿物组成和硫同位素组成方面与相邻岩浆融离型1号矿体一致的特征。在元素地球化学方面,6行富铜(铂族)矿体的Cu、Ni、Pt、Pd含量及Cu/Ni比值明显高于1号主矿体,前者,同时,前者相对富含LREE,轻、重稀土分异程度高于后者。根据硫化物结晶分异过程中金属元素分配规律及(铂族)矿体为岩浆通道型矿体,是岩浆硫化物晚期结晶的产物。矿区中西部存在的Cu、Ni、Pt、Pd、Au等含量部位,是寻找岩浆通道型矿体的有利部位。

关键词: [金川矿床](#) [岩浆通道](#) [硫化物结晶分异](#) [找矿](#)

Geological and Geochemical Characteristics of the Magma Conduit Type Orebodies of Jinchuan Deposit [Download Fulltext](#)

[Tian Yulong](#) [Bao Guozhong](#) [Tang Zhongli](#) [Wang Yushan](#)

Jinchuan Goup Ltd., Jinchuan Goup Ltd., Institute of Land Resources of Chang'an University, Jinchuan

Fund Project:

Abstract:

The line-6 copper(PGE)-rich orebody of Jinchuan Cu-Ni sulphide deposit is considered as the hydrothermal superimposed mineralization by some researchers. From study, the orebody is controlled by space and it is same with adjacent magma liquation 1# orebody in aspects as ore fabric, mineral composition and sulfur isotopic composition. The orebody shows characteristics of magmatic mineralization. In element geochemistry, the 6 copper(PGE)-rich orebody Cu, Ni, Pt and Pd contents and Cu/Ni value appears obviously higher than the latter. Comparatively, the former has higher differentiation of light and heavy lanthanon is higher than the latter. Based on Metal Elements and Lanthanone characteristics during the period of sulfide crystallization differentiation, this paper considers the line 6 copper-rich (PGE) orebody as magma conduit type orebody, it is the products of the late stage magmatic sulfide. In the Midwest of the mining area, Cu, Ni, Pt, Pd and Au contents are high. In the low contents where is the advantage location to prospect for magma conduit type orebody.

Keywords: [Jinchuan Cu-Ni Sulfide Deposit](#) [Magma Conduit](#) [Sulfide Crystallization Differentiation](#)