陆三明,李建设,赵丽丽,韦导忠. 2010. 庐枞矿集区龙桥式铁矿床含矿层位地球化学特征及找矿意义. 岩石学报, 26(9): 2577-2586

庐枞矿集区龙桥式铁矿床含矿层位地球化学特征及找矿意义

作者	单位
陆三明	安徽省公益性地质调查管理中心,合肥 230001
李建设	安徽省公益性地质调查管理中心,合肥 230001
赵丽丽	安徽省公益性地质调查管理中心,合肥 230001
韦导忠	安徽省公益性地质调查管理中心,合肥 230001

基金项目：本文受安徽省地质勘查专项费项目(2006-13)资助.

摘要：

龙桥铁矿床是庐枞地区大型的铁矿床,矿床中含矿地层的归属长期存在争议。本文系统地调查了该矿床含矿层位的空间展布,分析了平面和剖面上矿体的构造样式,认为区内含矿地层为中侏罗世的罗岭组。同时,系统地研究了区内含矿地层的微量元素、稀土元素的地球化学特征。研究表明,硼元素含量与陆相沉积物接近。含矿地层中的碳酸盐岩具低ΣREE、富集LREE的特征,且具弱Ce和弱Eu负异常,Y/Ho比值为34.8,与海相沉积物特征有一定差别,而与陆相湖泊沉积物稀土元素特征相似。含矿地层中矿化蚀变砂岩与中侏罗世的罗岭组砂岩也具有相似稀土元素特征。这也从地球化学上支持了野外调查得出的观点,即区内含矿地层为中侏罗世的罗岭组,为陆相沉积。在上述工作的基础上结合近期庐枞地区的勘查成果,指出庐枞南部是寻找沉积-叠加改造型矿床的有利地区。

英文摘要：

Longqiao iron deposit is a large deposit in Lujiang-Zongyang basin. The ownership of the ore-bearing strata in the deposit remains regarding right up to now. Based on systematic geological investigation of the spatial distribution of the ore-bearing strata and synthetically analysis of the structural styles on plane and profile for the ore-bodies, it is concluded that the ore-bearing strata is supposed to be the Middle Jurassic Luoling Formation in this region. Furtherm ore, minor element boron contents in the ore-bearing strata are close to them in terrestrial sediments. The REE geochemical characteristics of the ore-bearing strata are different from those of marine sediments, but are similar to those of lacustrine sediments, i.e., low ΣREE, enrichment of LREE, Ce and Eu weak negative anomaly, and Y/Ho ratio 34.8. In addition, the characteristics of REE of sandstone in ore-bearing strata are also similar to those of the Middle Jurassic Luoling Formation. Geological and geochemical studies confirmed that the ore-bearing strata are the Middle Jurassic Luoling Formation and they are terrestial sediments. Combining with the recent exploration achievments, it is proposed that the southern part of Lujiang-Zongyang basin who contains these terrestial sediments is the good disrict to look for sedimentary type and superimposed-sedimentary type ore deposits.

关键词：龙桥铁矿 含矿地层 地球化学特征

投稿时间： 2010-07-14 最后修改时间： 2010-08-17

HTML 查看全文 查看/发表评论 下载PDF阅读器