长江中下游成矿带深部成矿潜力、找矿思路与初步尝试——以铜陵矿集区为实例　　　点此下载全文

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摘要：

　　深部是未来资源勘查的重要方向,现有成矿理论和找矿实践也说明深部（）500m）具有巨大的找矿潜力。如何开展深部找矿？找什么类型的矿？在哪个深度上找矿？按照什么样的技术思路开展深部勘查工作？是目前深部找矿急需解决的关键问题。在分析长江中下游成矿带成矿规律和成矿特点的基础上,按照成矿"缺位"预测的原则,对成矿带深部成矿潜力和主要找矿目标层进行了分析,提出"成矿系统分析"＋"立体填图"＋"钻探验证"开展深部找矿的基本思路。并以铜陵矿集区为例,介绍近年来在深部成矿预测的初步结果。本文旨在"抛砖引玉",引导大家对深部找矿思路和技术方法进行广泛的讨论,尽快形成可操作的深部矿产勘查程序,指导我国危机矿山深、边部的找矿工作。

关键词： 深部资源潜力 找矿思路 立体填图 成矿系统 成矿模式

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Abstract:

　　Deep prospecting is an important orientation for future resources exploration. The existing metallogenic theory and prospecting practice also illustrate a great potential of the deep exploration (with a depth >500m). Key questions for the deep prospecting are as folmows: How to carry out deep prospecting? What type mine to explore? At what depth mines can be found? What technique needs to employ so as to develop the deep prospecting? On the basis of analyses on the metallogenic rules and characteristics of the Lower-and Middle-Yangtze River metallogenic belt, and combined with the principle of metallogenic defauled prediction, the paper mainly studied the potential of the deep prospecting and major prospecting target layer of the metallogenic belt, and put forward one basic prospecting principle for the deep exploration: metallogenic system analysis, stereoscopic mapping and drilling validation. Taking the Tongling deposit-intensive area as instance, the paper exhibited preliminary results about deep metallogenic forecast in recent years. The main purpose of this paper strikes a wide discussion on the deep prospecting so as to set up a practical exploration procedure and technique methods, and finally guide exploration in deep and peripheral areas around existing mine with resources crisis.

Keywords: deep resources potential　prospecting idea　solid mapping　metallogenic system　metallogenic mode

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