内蒙古乌拉特中旗图古日格金矿床地质地球化学特征及成因研究

摘要

图古日格金矿位于兴蒙造山带西端，为兴蒙造山带中重要的金矿床。目前，24t 以上的金的储量，平均品位是 4g/t，规模为大型石英脉型金矿床。其贵金属资源在我国具有重要地位。

在收集和整理地质资料及以往研究成果的基础上，通过对图古日格金矿典型矿床、矿体、岩石、地层、构造和矿体流体的分析，通过岩相、岩石地球化学等手段，对该矿床的地质特征、矿体基本地球化学特征和矿体流体特征进行了深入分析，研究了成矿时代、成矿背景、成矿成矿成矿来源、成矿流体来源、矿床成因、成矿机理和成矿过程

通过典型的矿床分析, 如金矿管, 并与同一矿床进行比较, 解释了金矿土岩的地球化学特征。阐述了成矿背景、矿物组成、人体金属矿物特征等、化学特征、勘探早期成因罗氏矿床和成矿机理, 认为金是金的一种金柱。与斑点有关的岩浆岩石。

关键词：岩浆热液；矿床成因；地球化学特征；兴蒙造山带；金矿；图古日格

Abstract

Tugulige gold deposit is located at the western end of the Xingmeng orogenic belt and is an important gold deposit in the Xingmeng orogenic belt. At present, the gold reserves above 24t, with an average grade of 4g/t, are large-scale Shi Ying vein gold deposits. Its precious metal resources play an important role in China.

On the basis of collecting and sorting out geological data and previous research results, this paper analyzes the typical deposit of Tugulige gold deposit, taking the orebody, rock mass, stratum, structure and ore-forming fluid of Tugulige gold deposit as the main research object, and deeply analyzes the geological characteristics, element geochemical characteristics and ore-forming fluid characteristics of the gold deposit by means of petrography, petrogeochemistry and other means. This paper discusses the age of diagenesis and mineralization, the metallogenic background, the source of diagenetic and metallogenic materials, the source of metallogenic fluid, the genetic type of the deposit, the metallogenic mechanism and the metallogenic process of the gold deposit, and on this basis, discusses the tectonic background and the gold metallogenic regularity of the Xingmeng orogenic belt during the Permian period.

The geochemical characteristics of Tugulige gold deposit are expounded through analysis of typical deposits such as Tugulige gold deposit and comparison with similar deposits. This paper describes the ore-forming background, ore mineral composition, ore body characteristics and petrochemistry characteristics, and preliminarily discusses the genesis and ore-forming mechanism of the deposit. It is believed that Tugulige gold deposit is a magmatic hydrothermal gold deposit related to granite porphyry.

Key words: magmatic hydrothermal solution; Genesis of the deposit; Geochemical characteristics; Xingmeng orogenic belt; Gold mine; Tuguriger

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