

技术应用

巴什布拉克铀矿区遥感油气还原蚀变信息提取

叶发旺, 刘德长

核工业北京地质研究院,遥感信息与图像分析技术国家级重点实验室,北京 100029

摘要:

从巴什布拉克铀矿床油气还原蚀变岩石的光谱特征分析入手,开展了基于ETM数据的白垩系油气还原蚀变信息的反向增强和

基于ASTER数据的直接增强技术研究。通过对增强的油气还原蚀变信息分布特征的分析,发现矿床所在的北西西向狭长的白垩系出

露范围内,西段的油气还原蚀变强烈,中段和东段的蚀变弱,从而为矿区外围铀矿找矿提供了重要依据。

关键词: 巴什布拉克铀矿区; 反向增强; 油气还原蚀变

THE APPLICATION OF REMOTE SENSING DATA TO THE EXTRACTION OF REDUCING ALTERATION INFORMATION OF GAS AND OIL IN THE BASHI BALAKE URANIUM ORE DISTRICT

YE Fa-wang, LIU De-chang

National Key Lab of Remote Sensing Information and Imagery Analysis, Beijing Research Institute of Uranium Geology, Beijing 100029, China

Abstract:

Based on studying spectral characteristics of sandstone that has undergone reducing alteration of gas

and oil in the Bashibulake ore district, this paper has dealt with the technologies of reverse enhancement based

on ETM data and the direct enhancement based on ASTER data for extracting the reducing alteration information from

Cenozoic strata, and analyzed distribution features of the alteration information. It is discovered that the

sandstone in the west part of the narrowly-exposed NWW-trending Cenozoic strata has undergone strong reducing

alteration of gas and oil, but the middle and east parts have experienced less alteration. The result provides

some important information for uranium exploration in the periphery of the Bashibulake uranium ore district.

Keywords: Bashibulake uranium ore district Reverse enhancement Reducing alteration of oil and gas

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通讯作者: 叶发旺(1974-),男,博士,高级工程师,主要从事遥感图像处理及应用等研究。

作者简介:

作者Email:

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