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中石油国内外致密砂岩气储层特征对比及发展趋势

蒋平, 穆龙新, 张铭, 赵文光 ▾

Differences of Reservoir Characteristics between Domestic and Oversea Tight Gas of CNPC and Its Developing Trends

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PDF (PC)

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摘要/Abstract

摘要 :

为加强中国石油天然气集团公司海外致密砂岩气藏有序、有效开发,以加拿大白桦地致密砂岩项目为依托,充分对比苏里格气田、须家河组气藏等国内典型致密砂岩储层特征差异,发现在成藏规律、沉积环境、砂体结构、孔隙结构、物性及吸附气含量6个方面差异显著。加拿大白桦地致密砂岩为一套厚层块状前积叠置海相相致密砂岩,“自生自储”特征明显,储层本身TOC含量高、吸附气含量较高。以特征对比为基础,归纳并展望致密砂岩气研究发展趋势,表现为5个“更加”:地质成藏理论更加“丰富”、储层描述刻画更加“精细”、储层评价更加“全面”、产能预测及井网部署更加“合理”、单井增产技术更加“时效”。

关键词: 致密砂岩, 储层特征, 发展趋势, 中石油, 白桦地

Abstract:

In order to strengthen the oversea development of tight sandstone in CNPC orderly and effectively,the article investigated the characteristic differences between Groundbirch tight sandstone reservoir and domestic typical tight sandstone reservoirs such as Sulige and Xujiache. There were six significant differences including forming rules, sedimentary environments, sand architectures, pore structures, physical properties, and adsorbed gas contents. The extremely tight marine sandstone of Groundbirch was thick, massive and prograding. The forming rule was “self-generated and self-contained”. The reservoir itself was rich in TOC and adsorbed gas content. The article also generalized the research trend of tight gas which was summarized into five “more” based on the contrast with before: The geological forming theory would be more “rich”, the reservoir description would be more “fine”, the reservoir evaluation would be more “comprehensive”, the production capacity forecast and well network deployment would be more “reasonable”, the single well stimulation techniques would be more “effective”.

Key words: Tight sandstone, Reservoir characteristic, Research trend, CNPC, Groundbirch

中图分类号:

TE122.2

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