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塔里木盆地海相泥页岩TOC计算及有利层段筛选

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TOC Calculation and the Screening of Favorable Layers in the Marine Mud Shale in the Tarim Basin

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摘要/Abstract

摘要 :

塔里木盆地发育多套海相页岩, 具有较大的页岩气资源潜力。在大量实测数据的基础上, 使用测井方法拟合计算海相泥页岩TOC, 结合野外露头取样分析测试, 筛选富有机质泥页岩有利层段。研究认为, 经典的 ΔLogR 法不适用于高—过成熟泥页岩TOC值的计算, 而利用U曲线法计算TOC值具有很好的应用效果。结果表明, 塔里木盆地富有机质泥页岩层段主要分布于满加尔凹陷东部中下奥陶统黑土凹组、下寒武统西大山组—西山布拉克组和柯坪—阿瓦提凹陷中上奥陶统萨尔干组|塔东地区的黑土凹组页岩是目前页岩气勘探的有利层位, 但分布范围及页岩厚度均较小, 页岩气勘探开发潜力较小。

关键词: 页岩气, 海相页岩, ΔLogR 法, U曲线, 塔里木盆地

Abstract:

The Tarim Basin develops several layers of marine shale which have large potential for shale gas resources. Based on large quantities of measured data, the TOC of marine shale was calculated by using logging method. Based on outcrop sample analysis, the favorable shale layers which are rich in organic matters were screened and determined. The classic ΔLogR method is not fit for the TOC calculation of high-over mature shale, while the TOC calculation by using Uranium logging curve works well. The results show that the organic-enriched shale in the Tarim Basin mainly distributes in the Middle-Lower Ordovician Heituwa Formation, the Lower Cambrian Xidashan-Xishanbulake Formation in eastern Manjiaer Depression, and the Middle-Upper Ordovician Saergan Formation in the Keping-Awati Depression area. The Heituwa shale in Tadong area is a favorable layer for the present shale gas exploration, however, considering its small distribution area and shale thickness, it has a small potential for the exploration and development of shale gas.

Key words: Shale gas, Marine shale, ΔLogR , Uranium logging curve, Tarim Basin

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