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吐哈盆地温吉桑区块三工河组致密砂岩“甜点”储层有利区分布预测

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Forecast on the Advantageous Area Distribution of Tight Sandstone Sweet Spots Reservoir in Sangonghe Formation Wenjisang Area of Turpan-Hami Basin

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摘要/Abstract
<p>摘要 :</p> <p>吐哈盆地温吉桑区块侏罗系三工河组发育多期辫状河三角洲, 储集层类型以低孔低渗致密砂岩储层为主, 其致密砂岩“甜点”型储层主要受裂缝和三角洲前缘水下分流河道沉积微相控制。在综合分析致密砂岩储层地球物理响应特征的基础上, 应用地震正反演、频谱分解、地震属性切片、多参数储层反演技术以及裂缝预测技术, 刻画和描述了温吉桑区块三工河组多期三角洲前缘水下分流河道砂体平面分布特征以及沉积演化情况, 指出致密砂岩甜点储层分布有利区和有利勘探目标。</p> <p>关键词: 吐哈盆地, 温吉桑区块, 三工河组, 致密砂岩, 甜点, 地震属性, 储层预测</p> <p>Abstract:</p> <p>Wenjisang area in Turpan-Hami Basin developed multi-stage braided river delta in the Jurassic Sangonghe Formation with reservoirs dominated by low porosity and low permeability. Its “sweet spot” in tight sandstone is mainly controlled by fractures and sedimentary micro-facies of delta front underwater distributary channel. Based on the comprehensive analysis of tight sandstone reservoir geophysical response characteristics, by the application of seismic inversion, spectral decomposition, seismic attribute slicing technology and fracture prediction technology, this article portrayed and described the plane distribution characteristics and sedimentary evolution of sand-body from multi-stage braided river delta front underwater distributary channel in the Wenjisang area. Advantageous areas of sweet spots in tight sandstone reservoirs and the exploration targets are predicted.</p> <p>Key words: Turpan-Hami Basin, Wenjisang area, Sangonghe Formation, Tight sandstone, Sweet spot, Seismic attribute, Reservoir prediction</p> <p>中图分类号:</p> <p>TE122.2</p>
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