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GeoEast属性技术在致密储层预测中的应用

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Tight reservoir predication with seismic attribute approach provided by GeoEast

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摘要

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摘要 应用传统声波曲线难以有效反映致密砂岩储层特征, 在这种情况下, 一方面采用对岩性相对敏感的测井曲线进行拟声波重构, 再通过地震反演, 预测储层的展布规律; 另一方面利用GeoEast系统沿层属性, 分析属性与储层含油气性的关系, 开展储层流体敏感性分析, 优选敏感参数进一步确定有利储层的展布规律。本文利用GeoEast系统地震反演、地震属性等方法 and 手段, 对致密含气砂岩储层及流体特征开展综合分析和预测, 其成果与钻井较为吻合。

关键词: 拟声波 地震反演 吸收衰减 流体活动性

Abstract: As conventional acoustic curves cannot predict and describe tight reservoirs characteristics, we usually reconstruct acoustic curves which are relative sensitive to lithology, and perform seismic inversion to predict reservoir distribution. On the other hand, we study the relation between attributes along horizon and oil-bearing properties based, and use reservoir fluid sensitive attributes provided by GeoEast to predict favorable reservoirs and their distribution. We discuss in this paper reservoir and fluid predication in tight sands using seismic inversion and seismic attributes approach provided by GeoEast. Predication results which match very well with latter drilling indicate that the proposed approach is applicable and efficient.

Keywords: pseudo acoustic seismic inversion absorption and attenuation fluid activity

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