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GeoEast解释系统在辽河拗陷茨榆坨地区的应用

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Application of GeoEast interpretation sub-system in Ciyutuo, Liaohe Depression

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摘要

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摘要 本文利用GeoEast解释系统在辽河拗陷茨榆坨地区开展了地震地质综合解释,在常规构造解释、储层预测和油气检测方面均取得较好应用效果。利用提取振幅曲率体方法刻画了茨榆坨潜山内幕裂缝发育特征,据此项成果部署了8口井,其中有两口井获工业油流,预测储量为 6000×10^4 t,另有4口井见到油气显示,其余两口井尚未完钻。这些勘探成果打破了茨榆坨潜山勘探近十年的滞缓局面,取得重大进展。

关键词: GeoEast解释系统 振幅曲率体 储层预测 裂缝特征 辽河拗陷

Abstract: We use GeoEast interpretation sub-system to conduct a seismic-geological comprehensive interpretation in Ciyutuo area, Liaohe Depression. Good achievements in structure interpretation, reservoir prediction and oil and gas detection are presented in the paper. Fracture characteristics of inner buried-hills have been outlined by curvature volumes. well's locations were proposed and deployed based on our interpretation results. Two of them have obtained industrial production flow with predicted reserves of 6000×10^4 t. Oil shows were encountered at other four wells and the two other wells are still in the drilling stage. These exploration results are considered as an important breakthrough for buried-hill exploration in the area since last ten years.

Keywords: GeoEast interpretation sub-system curvature volume reservoir prediction fracture characteristics Liaohe Depression

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