

大港油田官104断块储层非均质性研究

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摘要 利用研究区测井二次解释的成果,对储层非均质性特征和在生产中的反映进行了分析,并结合高分辨率层序地层学理论,总结储层非均质性形成的控制因素.针对大港油田官104断块开发过程中层间矛盾突出、单层突进严重的问题,重点分析了研究区储层层间非均质性.通过对研究区的分析可知,地层旋回性、沉积微相和隔层的分布是主要的储层非均质控制因素.并且隔层和沉积相的分布规律受沉积旋回的控制.因此,层间非均质性受控于基准面旋回变化造成的A/S值的变化,A/S值小非均质性弱,A/S值大非均质性强.应用产液、吸水剖面资料验证储层非均质性,并提出下一步挖潜和措施的方向,指导油田的生产.

关键词 [储层非均质](#), [大港油田](#), [基准面旋回](#), [隔层](#)

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Reservoir heterogeneity study on Guan 104 Block of Dagang oil field

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Abstract This paper summarizes reservoir heterogeneity characteristic of Guan 104 Block and analyzes the reflection of oil production. Using the high-resolution sequence theory, we analyze the changes of base-level cycle controlling on the reservoir heterogeneity. Concerning on main production problems, which are the contradiction between layers and the heavy seeping of single layer during production stage of Guan 104 Block Dagang oil field, we mainly analyze the reservoir heterogeneity between layers. The study of strata cycle, facies distribution and the distribution of barriers are the main controlling factors of heterogeneity. And the distribution of barriers and facies were controlled by the deposit cycles. Changes of base-level faces make the change of the ratio of accommodation space and sedimentary alimentation (A/S). Low ratio means the light heterogeneity, high ratio causes the heavy heterogeneity. The testing data of producing liquid and inhaling water was used to check the reservoir heterogeneity, the direct of future exploit has been work out, the production can be guided.

Key words [P631](#)

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