

黄骅坳陷中区古近系层序构成样式分析

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中文摘要:黄骅坳陷中区具有层位发育全、沉积厚度大、烃源岩层系多、生烃能力强的特点,是大港油田油气勘探的主要地区。结合高分辨率地震、钻井和测井等基础地质资料研究黄骅坳陷中区古近系沙河街组、东营组可划分为3个二级层序、11个三级层序。研究区古近系发育3种典型的构造背景:缓坡、断控陡坡和多级断阶带。不同构造背景形成了相层序样式:缓坡坡折型层序样式、断控陡坡带型层序样式、断阶带型层序样式。层序构成样式的差异主要受控于宏观构造的幕式演化和局部同沉积断裂不同组合样式所形成的特定貌。此外,物源体系也是控制层序构成样式的重要因素。

中文关键词:[渤海湾盆地](#) [黄骅坳陷](#) [层序构成样式](#) [控制因素](#)

Styles of Sequence Components in the Central Area of the Huanghua Depression

Abstract:Huanghua Depression is one of the most important oil and gas bearing basins in Bohai Bay basin of East China. On the basis of reflection characteristics, well logging and other geological data, Shahejie Formation and Dongying Formation can be divided into three second-order sequences and eleven third-order sequences. Three system tracts can be recognized in each third-order sequence, which are lowstand system tract, expanding system tract and highstand system tract. Three typical tectonic backgrounds developed in the study area: ①Gentle slope characterized by slope break lies on the west side of Qinan sag, northwest side of Beidagang buried hill and its east plunging part. Sequence styles of gentle slope break are developed in the above parts. ② Fault-controlled steep slope background can be seen on the south side of Nandaq buried hill and Beidagang buried hill. The above areas form the sequence style of fault-controlled steep slope. ③ The background of multilevel step-fault is Yangerzhuang fault terrace belt and the downthrow wall of Haihe fault. Tectonic activity is the main factor that controls the sequence components, and can be divided into microtectonic and local tectonic activities. Sediment source also mainly controls the sequence pattern.