

天然气地质学

海拉尔盆地苏31区块南屯组二段基准面旋回与沉积特征关系

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摘要:

运用高分辨率层序地层学原理和方法,在海拉尔盆地苏31块南屯组二段识别出46个超短期、8个短期、4个中期及2个长期基准面旋回,并以沉积动力学观点分析了沉积特征随各级基准面旋回演化的规律。研究区目的层发育的主体沉积微相有辫状水下分流河道、席状砂及前三角洲泥。各级基准面旋回对沉积微相有较好的控制作用。随着基准面的上升,沉积物总体呈退积特征;随着基准面的下降,沉积物总体呈进积特征。基准面由上升到下降的转换面附近砂体相对不发育,基准面由下降到上升的转换面附近砂体相对发育。以基准面旋回及沉积动力学分析为核心的高分辨率层序地层学对深化复杂断陷盆地开发区块精细沉积特征研究具有重要意义。

关键词:

Relationship between Base-level Cycles and Sedimentary Features in 2nd Member of Nantun Formation, Su-31 Block of Haila'er Basin

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Abstract:

Using high-resolution sequence, we identified the base level cycles with 46 ultra short term, 8 short, 4 medium and 2 long term in the Member 2 of Nantun Formation, Su-31 block of Haila'er basin. We used the sedimentary dynamics to illustrate the depositional changes with all base level cycles. The main micro-facies of target layer in the study area included the braided distributary channel, sheet sand, former delta mud, etc. The base-level cycles constrain the micro-facies. With rise of base level, sediments showed retrogradation features, in contrast, with drop of base level, sediments had progradation. The sand rarely developed near the conversion surface of base level rise to fall, whereas the sand relatively developed near the conversion surface of base level fall to rise. The high-resolution sequence composed of base-level cycles and deposition kinetics gave more information to identify fine sedimentary body for development of the complex rift basin.

Keywords: High-resolution sequence|Base-level cycle|Sedimentary feature|Haila'er basin.

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