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库车坳陷东部白垩系沉积体系分析及有利油气勘探区带预测 [点此下载全文](#)

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摘要:

克拉2大气田的发现,展示了库车坳陷白垩系良好的油气勘探潜力。通过对库车坳陷东部野外露头、钻井资料以及地震剖面的综合分析,对坳陷东部白垩系的沉积体系类型及其分布特征进行了系统的研究。结果表明:研究区白垩系发育湖泊体系、扇三角洲体系、辫状河三角洲体系和三角洲体系等四种沉积体系类型;白垩系岩相古地理经历了早、中、晚期的演化,早期发育了以扇三角洲体系为主的沉积环境,中期形成了大范围的浅湖环境,晚期以三角洲平原相环境为特色;平面上,白垩系岩相古地理南北分带明显,具有南北双向提供物源的特征,粗碎屑分布在坳陷较陡的北侧。库车坳陷东部储层主要由三种三角洲体系砂体和滨岸沙坝砂体构成,砂体厚度大,分布广,储集条件好。

关键词: [库车坳陷东部](#) [白垩系](#) [沉积体系](#) [有利区带](#)

Analysis of Depositional Systems and Prediction of Favorable Regions of the Cretaceous in the East Part of the Kuqa Depression, Tarim Basin, Xinjiang [Download Fulltext](#)

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Abstract:

The discovery of Kala-2 gas field reveals a good exploration prospect of the Cretaceous formation in the Kuqa depression. Based on analyses of outcrops, well logs and high-resolution seismic reflection data, the sedimentary systems types and distribution characteristics of the Cretaceous in the east part of the Kuqa depression were studied systematically. The results showed the following facts. (1) Four types of sedimentary systems are developed in this area, that is, lacustrine system, fan delta system, braid delta system and delta system. (2) There are three evolutionary stages of lithofacies and palaeogeography during the Cretaceous. In the early stage, a sedimentary environment of fan delta system predominated, in the middle stage large-scale shallow lacustrine was developed and the late stage is characterized by delta plains. (3) The lithofacies and palaeogeography of the Cretaceous show a clear south-north zonation. Sedimentary sources came from both south and north and coarse detritus is found on the north steep slope of the Kuqa depression. (4) The reservoirs in the eastern Kuqa depression are made up of three delta systems and coastal bar sand bodies, which are very thick and widely distributed.

Keywords: [east part of the Kuqa depression](#) [Cretaceous](#) [sedimentary system](#) [favorable region](#)

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