Architecture of Underwater Distributary Channel Reservoir in Member 3 of Qingshankou Formation in QianAn district, South of Songliao Basin

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Abstract

The QianAn district is located in the south of Songliao basin, and it has experienced 30 years of oil exploration and development process since first developed in 1985. As the oilfield gradually enters in its late stage of high water contained development, the main production contradiction has transferred from interformational to intraformational, so understanding the internal architecture of the underwater distributary channel sand body reservoir in the study area becomes meaningful to the enhancement oil recovery. Therefore, this study uses the theory of reservoir layer upon layer analysis method as guide, combining with the modern shallow water delta depositional model, integrating with the core and log data of dense well pattern area of block 3 in QianAn district, processes a detailed study on the internal architecture of underwater distributary channel reservoir in the study area.