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珠江口盆地文昌A凹陷低渗凝析气藏天然气成因及成藏模式

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Genesis of the Natural Gas in Tight Condensate Gas Reservoirs and Forming Model,Wenchang A Sag of Pearl River Mouth Basin

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PDF (PC)

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摘要/Abstract

摘要 :

利用海上钻井分析测试、地震等资料,运用油气地球化学、成藏综合研究方法,重新研究了珠江口盆地西部文昌A凹陷上渐新统珠海组主要低渗凝析气藏天然气成因与成藏模式。研究认为,文昌A凹陷天然气组分以烃类气为主,为成熟的油型气,有别于邻区莺—琼盆地崖城13-1气田的煤型气。文昌A凹陷天然气源自下渐新统恩平组,且恩平组发育大范围的母质类型较好的浅湖相沉积,提升了该区油气资源潜力。5Ma以来天然气充注珠海组圈闭,目前珠海组储层因埋深大而变得致密。气源充足、源—储紧邻且压差大、油气运移通道畅通,是文昌A凹陷珠海组低渗气藏形成的主控因素与地质条件。

□

关键词: 天然气成因, 油型气, 低渗凝析气藏, 成藏模式, 文昌A凹陷, 珠江口盆地

Abstract:

Based on the test and seismic data etc.,genesis of the natural gas in the low permeability condensate gas reservoirs of the Upper Oligocene Zhuhai Formation and their formation model are restudied through hydrocarbon geochemistry and pool-formation research method.The natural gas was dominated by hydrocarbon gas and belongs to mature oil-type gas,which differentiated from typical coal-derived gas of Yacheng13-1 Gasfield in Ying-Qiong Basin,and was generated from Lower Oligocene Enping Formation lacustrine source rocks.Evidences showed that large-scale shallow lacustrine source rocks with good type of organic matter developed during Enping Period.Since 5Ma,natural gas which formed from Enping Formation source rocks charged into Zhuhai Formation with low permeability by deep burial.Abundant gas resource,high differential pressure between source rocks and reservoir rock and straightway migration path are the main controlling factors of the Zhuhai Formation tight gas reservoirs.

Key words: Genesis of the natural gas, Oil-type gas, Tight condensate gas reservoir, Pool-forming model, Wenchang A Sag, Pearl River Mouth Basin

中图分类号:

TE122

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