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南堡凹陷5号构造天然气赋存特征及主力气源分析

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Characteristics of the Natural Gas Occurrence and Analysis of the Main Gas Source in the No.5 Tectonic Zone of Nanpu Sag



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摘要/Abstract
<p>摘要 :</p> <p>通过地质和地球化学相结合的方法,对南堡5号构造天然气地球化学特征、成因类型分布以及天然气来源进行了精细研究,明确了南堡5号构造天然气的分布特征。南堡5号构造陆上北堡地区天然气主要分布在东营组,滩海地区天然气则主要分布在沙河街组。天然气主要为湿气,干气较少,以油溶气为主,凝析气层居次。不同地区的天然气类型不同,陆上北堡地区天然气主要以腐泥型为主,滩海地区天然气主要以腐殖型为主。腐泥型天然气主要分布于东营组,而腐殖型天然气则主要分布于沙河街组。通过地质和地球化学对比分析认为,南堡5号构造滩海地区腐殖型天然气及过渡型天然气主要来源于滩海地区沙三段气源岩,陆上北堡地区腐泥型天然气主要来源于北堡构造沙三段气源岩,即南堡5号构造天然气主力气源来自中深层的沙三段气源岩,以近源运聚为主。□</p> <p>▾</p> <p>关键词: 天然气, 赋存特征, 气源分析, 南堡凹陷</p> <p>Abstract:</p> <p>Based on geological and geochemical methods,geochemical characteristics of natural gas,distribution of genetic types and gas source were studied accurately,and the distribution characteristics of natural gas were identified in the No.5 tectonic zone of Nanpu Sag.The natural gas in the onshore Beipu zone mainly distributed in the Ed Fomation and the beach area in the Es Formation.The natural gas is dominated by wet gas with little amount of dry gas.It is mainly of oil-soluble gas,followed by condensate gas.The types of natural gas are not the same in different areas.The sapropelic natural gas mainly distributes in the Ed Formation in the onshore Beipu zone,while the humic gas distributes in the Es Formation in the beach area.By comparison with geological and geochemical analyses,the humic natural gas and the transited-type natural gas is mainly sourced from the Es₃ Formation of beach area in the No.5 tectonic zone of Nanpu Sag,the sapropic natural gas in the onshore Beipu zone is mainly driven from the Es₃ Formation of Beipu zone.In general,natural gas in the No.5 tectonic zone of Nanpu Sag are mainly sourced from the middle or deep source rocks of Es₃ Formation.Natural gas uauslly migrates and accumulates near the source in the No.5 tectonic zone of Nanpu Sag.</p> <p>Key words: Natrual gas, Occurrence characteristics, Gas source analysis, Nanpu Sag</p> <p>中图分类号:</p> <p>TE122.1</p>
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