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煤层气

煤层气与页岩气聚集主控因素对比

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摘要:

我国已进入煤层气产业快速发展,页岩气开发迅速起步阶段。国内外一些典型盆地均出现煤层气与页岩气混合共生的现象,研究两者共性及差异性对指导勘探开发具有重要意义。煤层气与页岩气在形成背景、气源、储集等诸多方面存在共性(两者富集成藏均受厚度、热成熟度、有机质含量和储层孔隙、微裂隙发育等因素控制)和差异性(煤层气还受构造和水文地质等条件影响明显)。在沉积环境方面,煤层主要形成于滨海或滨湖平原、三角洲平原、冲积平原及冲积扇前缘等沉积环境,而页岩则形成于快速沉积且封闭性较好的还原环境。

关键词:

Comparison of Controlled Factors for Coalbed Methane and Shale Gas Accumulation

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Abstract:

It is rapid development of CBM in China, in contrast shale gas is starting. It is important to elucidate the common and difference between CBM and shale gas, because of similar aspects of gas sources, migration, preservation and accumulation between them. There is mixing of CBM and shale gas in some basins. The accumulation of both gases is constrained by reservoir thickness, thermal maturity, organic matter content, and reservoir pore and micro\|fracture. The CBM is also affected by structure and hydrogeology. By contrast of depositional conditions, the coal was mainly formed in the seashore, delta plain, alluvial plain and front of alluvial fan, while the shale was quickly deposited in the reductive environment.

Keywords:

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