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沁水盆地煤层割理的充填特征及形成过程 [点此下载全文](#)

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摘要:

煤层作为煤层气的源岩和储集层, 与常规天然气储层不同在于煤储层是一种双孔隙岩层, 由基质孔隙和裂隙组成, 且有自己独特的割理系统, 基质孔隙和割理的大小、形态、孔隙度和连通性等决定了煤层气的储集、运移和产出, 其中以割理系统对煤层气的产出最为重要。本文以沁水煤田为例, 对煤层割理、割理填充物类型、充填方式、自生矿物形成时代进行了研究, 总结了填充物形成的先后顺序, 并根据填充物的形成时代、煤层埋藏史等提出了割理形成的3种机制: 埋藏增压机制; 岩浆诱发机制; 抬升卸压机制。

关键词: [煤层气](#) [煤储层](#) [割理](#) [填充物](#)

Coal Cleat System Characteristics and Formation Mechanisms in the Qinshui Basin [Download Fulltext](#)

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Abstract:

As the source rock and reservoir of coalbed methane (CBM), coal bed is different from conventional gas reservoirs in its dual porosity rock composed of matrix pore and fracture and being of its unique cleat system. The size, shape, porosity and connectivity of matrix pore and cleat determine accumulation, migration and production of CBM, with cleat system being most important for CBM production. Taken the Qinshui coal field as an example, this paper focuses on the type of coal cleats and fillings, fillings way, and formation age of authigenic minerals of coal cleat. Based on formation age of filling and burial history of coal bed, three formation mechanisms of cleat were proposed: buried pressurization mechanism; magma induced mechanism; uplift depressurized mechanism.

Keywords: [coalbed methane \(CBM\)](#) [coal reservoir](#) [cleat](#) [filling](#)

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