

## **GEOLOGICAL CONTROLS TO OCCURRENCE OF COALBED METHANE RESOURCES IN CHINA**

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In China, the coal-bearing basins located on the platform basement and in transition belt from platform to fold zone are well potential in the development of coalbed methane (CBM) resources, and the CBM-controlled structure is classified into four types including ten patterns. The distribution of the CBM resources in China was substantially controlled by the Yanshannian movement and its magma activity, and the reservoir-caprock assemblages from the sedimentary systems of the delta and barrier-coast might be favorable of the CBM preservation. The influence of the hydrogeological conditions to CBM occurrence is embodied through three patterns, i.e., the hydraulic migration-escape, hydraulic sealing and hydraulic jam. The petrological component, coal rank, thickness and buried depth of the coal reservoirs are also important geological factors by which the distribution of the CBM resources in China was or is controlled.