RELATIONSHIP OF SEDIMENTATION TO ASSEMBLAGES OF COALBED METHANE RESERVOIR AND ITS ROOF ROCK

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The six fundamental genetic patterns of the coal reservoir and its roof rock assemblages with some regular occurrence in space-time exist in China. The sealing capability of the shallow sea and barrier island pattern to coal reservoir is relatively high, that of the shallow sea and plane coast pattern becomes mostly poor, that of the littoral delta pattern is commonly good, that of the fluvial pattern is relatively good if the sedimentary unit is complete or very poor if the coal reservoir is directly overlaid by the channel or splay medium- to coarse-grained sandstone, that of the lake pattern is sufficiently high, and that of the alluvial fan pattern is generally very poor. The relationship between the sedimentation and coalbed-roof assemblage not only occurs regionally in the North and South China, but also controls the distribution of the coalbed methane content in some coalfields or coal mining districts, which provide the important reference for the prediction of the gas-bearing coalbeds.