

刘震, 武耀辉. 泥岩压实程度与热成熟度关系分析[J]. 地质论评, 1997, 43(3): 290-296

泥岩压实程度与热成熟度关系分析 [点此下载全文](#)

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基金项目:

DOI:

摘要:

大量实际资料证实了沉积岩压实程度与有机质热演化程度之间存在密切关系。本文分别从泥岩压实机理和控制热成熟度的时间、温度因素两个方面讨论了影响泥岩孔隙度和热成熟度指标的内在因素, 从理论上确定了两者的相关性: 泥岩孔隙度和热成熟度都是埋深和经历地质时间的函数。由于干酪根类型的不同, 会造成泥岩孔隙度与热成熟度之间的关系存在明显差别。在成岩过程中, 泥岩超压段内欠压实泥岩的孔隙度与热演化程度同样具备相关性。压实

关键词: [孔隙度](#) [热成熟度](#) [干酪根](#) [泥岩](#) [油藏](#) [压实程度](#)

ANALYSIS ON RELATION BETWEEN COMPACTION OF MUDSTONE AND THERMAL MATURITY [Download Fulltext](#)

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Abstract:

Voluminous data have demonstrated that there exists close relationship between the degree of compaction of sedimentary rocks and the degree of thermal evolution of organic matter. The internal factors influencing the porosity of mudstone and thermal maturity are discussed in terms of the time and temperature of the thermal maturity and mechanism of compaction of mudstone. The correlation of both is determined theoretically; the porosity and thermal maturity of mud-stone are both the functions of burial depth and geologic time. Different kerogen types may cause marked difference in the relationships between the porosity and thermal maturity of mudstone. During diagenesis there is likewise correlation between the porosity and degree of thermal evolution of less compacted mudstone in the overpressure section of mudstone. The stable relationship between the degree of compaction and thermal maturity has important practical significance in the prediction of organic maturity of a sedimentary basin ahead of drilling.

Keywords: [porosity](#) [thermal maturity](#) [time](#)

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