

Successful Identification of Complex Cleat Systems in Coals

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Summary

Coals of the WCSB often exhibit a cleat system that is much more complex than what is typically associated with coals in general. This cleat system, or network, has a direct bearing on gas production due to its direct relationship with permeability. The ability to determine, or characterize, these cleat networks is a valuable exercise that can ultimately lead to added production benefits. . While there are many methods to identify cleat systems in vertical wells, innovative use of resistivity micro-imaging in horizontal wells, combined with state-of-the-art modelling software has been found to give superior results. This talk will discuss a study in this relation.