

Using 2D NMR in Organic shale for saturation measurement

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ABSTRACT

Tight organic shales are a challenge to the oil industry in several ways. An accurate petrophysical evaluation of these rocks includes porosity, permeability, hydrocarbon saturation and fracability. The evaluation of these petrophysical parameters has appeared more challenging in tight organic shales than in conventional reservoirs. In this paper, we describe a non destructive method allowing the measurement of hydrocarbon saturation based on two dimensional T_1 - T_2 NMR.