

MicroCT Analysis of Porosity and Mineral Phases in Carbonate Reservoirs of Eastern Canada

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Abstract/Excerpt

Ongoing research to produce a permeability atlas for petroleum reservoirs in eastern Canada includes analyses of carbonate material from both onshore (e.g. Ordovician – Silurian, Trenton – Black River of Québec and western Newfoundland) and offshore (e.g. Jurassic – Cretaceous reefs of the Scotian shelf, offshore Nova Scotia). Magnetic Resonance Imaging (MRI) is being utilized to image porosity and flow heterogeneity in core plugs (e.g. Gingras et al, 2002; Marica et al., 2006), but MicroComputed Tomography (microCT) currently affords better imaging resolution of the pore networks themselves.