

Formation MicroScanner Services - A Tool to define Fine-scale Geological Features with a 'Core-like' Image

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Fine-scale definition and description of formations is a valuable knowledge needed by geologists and engineers for better understanding of the reservoirs.

Formation MicroScanner tool is designed to provide in-situ description of the reservoir that could otherwise only be obtained by the expensive and more time-consuming procedure of full-bore coring. It is an extension of dipmeter technology in which scanning electrode arrays are used to provide a high sampling of the formation microresistivity in both vertical and azimuthal directions on the borehole surface. These two-dimensional data are then mapped to gray-scale or colour to produce a 'core-like' borehole wall image that allows fine-scale features to be described, through essentially the interpretation procedures as that used in the examination of core photographs.

Major applications of the tool are seen in fracture identification, analyzing thinly bedded formations, recognizing secondary porosity developments in carbonates and in defining sedimentary structures and depositional environments.
