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Enhanced Formation Evaluation Using High Quality LWD logs in North and South Iraq

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Abstract

Mud invasion effects most data acquired by logging tools which in turn affects formation evaluation. In most cases WL logs ran several days after drilling the reservoir section. Weatherford performed back to back job between high quality sonic resistivity LWD versus complete wireline logging suits to study the differences in quality and allowed quantification of mud invasion effects on WL data. The study proved the excellent quality of LWD data and its ability to replace the WL which save rig time and avoid running WL radioactive source bearing density neutron tools. Also LWD provide real time petrophysical evaluation which plays important role in the decision making process before invasion takes place and mask the correct water saturation calculation.