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Development of advanced technique for investigation of formation thermal properties in application to hydrocarbon recovery problems

The topic of research is development of advanced technique for investigation of formation thermal properties in application to hydrocarbon recovery problems. Thermal properties – thermal conductivity, thermal diffusivity, volumetric heat capacity - characterize heat and mass transfer processes in hydrocarbon deposition sites both in their formation, as well as in mining. For the first time, there is a prospect of solution to thermal petrophysical problems by applying new technology of optical scanning to unconventional reservoir investigations. The thermal properties have become leading in measurement qualities of petrophysical properties. As a result, new opportunities of applying thermal properties to characterize processes in hydrocarbon deposition sites appeared.