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Reduction of paraffin wax concentration in crude oil under infrasonic exposure(Article)

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Краткое описание Просмотров пристатейных ссылок (27)

Due to the active extraction of oil in the world, the reserves of light petroleum are depleted. The increasing demand for oil and products of its processing makes it necessary to look for new ways of extracting and processing high-viscosity crude oil containing an increased percentage of paraffin in its composition. An analysis of the scientific and technical literature on the study of the chemical composition of the Zhanazhol deposit oil of Kazakhstan is carried out. The methods of purifying crude oil from paraffin wax have been studied to identify their shortcomings. The technique of carrying out experiments on studying the effect of infrasound on oil samples is described, and the results of the experiments are given. The input parameters of the experiment (the time of action and the frequency of infrasound) are determined, at which the maximum reduction in the kinematic viscosity of oil is achieved.

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