

عنوان مقاله:

Enhance Oil Recovery via Microwave Irradiation in Different Zonation of Reservoir

محل انتشار:

هشتمین همایش بین المللی توسعه فناوری در نفت، گاز، پالایش و پتروشیمی (سال: 1403)

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خلاصه مقاله:

Environmental, commercial and low efficiency procedures limitations create challenges for oil production. thus, microwaves as a new method of thermal oil recovery can affect on oil viscosity via increasing temperature without mass transfer. so, reservoir 's oil would warm by water in prose media as a conduction and convection heat transfer, because water is polar [is needed to microwave interaction] and tangible content which is continuously present at least as a critical water saturation in prose media. Hence, detection of the best region for heat transfer by microwave is considered in laboratory condition and the results showed that water and clay generate the most heat in control volume and it can propagate in media by conduction and convection mechanisms.

کلمات کلیدی:

Shale, Emulsion, Thermal oil recovery, Microwave irradiation

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