

عنوان مقاله:

EVALUATION OF STEAM INJECTION PROCESS IN HEAVEY OIL RESERVOIR

محل انتشار:

چهارمین همایش بین المللی نفت، گاز و پتروشیمی (سال: 1396)

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خلاصه مقاله:

Heavy oil production using steam injection has become a common method of extracting oil. It is considered an enhanced oil recovery (EOR) method and is one of the extraction methods used in thermal stimulation of oil reservoirs. Steam assisted gravity drainage (SAGD) has become one of the more cost effective methods of producing fluid from oil sand reservoirs. This same technology is being applied to heavy oil reservoirs where viscosity is an issue [1]. This paper demonstrates an investigation of the steam injection on heavy oil reservoirs. The methodology is studied from its mechanisms of enhanced oil recovery by approaches of reservoir engineering, which indicate that by injecting the steam, the advantages of rock wettability conversion, more heat enthalpy, larger specific volume and latent heat of vaporization of superheated steam would result in the better production and economic performance.

کلمات کلیدی:

Steam Injection, Heavy Oil Reservoir, EOR, SAGD

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