

عنوان مقاله:

Optimization of Enhanced Oil Recovery by I-WAG Injection at a Real Oil Field

محل انتشار:

اولین همایش ملی تکنولوژی های نوین در شیمی و پتروشیمی (سال: 1393)

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خلاصه مقاله:

WAG injection was proposed to improve efficiency of gas macroscopic displacement. This process can reduce the high mobility of gas phase in oil displacement process. In this study, used model has an active aquifer that affects on the performance of WAG injection. The parameters influencing on EOR process in WAG injection have been studied with compositional simulation methods in a model with an active aquifer. Also in this study shown that increasing in the oil production rate, higher than the optimal flow rate, would increase the water cut. At too high flow rates simulation program running was suspended in less than first 400 days period due to deviation from the defined limits (pressure limits and maximum water cut limits). At the end in a real oil field after history match, WAG injection was simulated for this reservoir then compared with immiscible gas injection and natural depletion projects in a 25 years period

کلمات کلیدی:

WAG Process, Compositional Simulation, Active Aquifer, Sensitivity Analysis

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