

عنوان مقاله:

Investigating the Possibility of Optimizing the Water Injection Rate during Waterflooding in Iranian Oil Reservoirs

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

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خلاصه مقاله:

Water flooding, the oldest and the most common EOR method, increases the displacement efficiency in a reservoir and also maintains the reservoir pressure for a long period of time. In Iran, water injection is widely used as a method to enhance recovery from oil reservoirs. Defining the optimized injection rates and injection patterns which is dependent on geological structure of the reservoir is essential in operational and economical decisions for reservoir management. In this paper, we use Capacitance-Resistive Model to find interwell connectivity, and optimized injection rates in a synthetic field. The results showed that the change in oil and water prices can significantly influence the optimized water injection rates.

کلمات کلیدی:

Waterflooding - Water injection – Optimization – Capacitance Resistive Model

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