

عنوان مقاله:

Experimental Investigation and Modeling of Polymer Flooding in Fractured Heavy Oil Reservoirs Using Five-Spot Micromodels and UTCHEM Software

محل انتشار:

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خلاصه مقاله:

In this study a series of water and polymer injection experiments are performed on five-spot glass micromodels which are initially saturated with a heavy crude oil of an Iranian oil field. Five two dimensional glass micromodels with different fracture properties were used to illustrate effects of different types of polymer and also variation of polymer concentrations on oil recovery in presence of fractures with different properties. Furthermore, these experiments were simulated with UTCHEM software and both results were matched with each other to validate this research. This study demonstrates different physical and chemical conditions that affect this method of enhanced oil recovery in heavy oil reservoirs

کلمات کلیدی:

Polymer Flooding, UTCHEM, Simulation, Fractured Reservoirs, Micromodel, Heavy Oil, Enhanced Oil Recovery

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