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عنوان مقاله:

An Influence of Polymer-Alkaline and Nanoparticles as Chemical Additives on the Immiscible Displacement and Phase Relative Permeability

محل انتشار:

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خلاصه مقاله:

In this study, a chemical additive made by a combination of polymer, alkaline, and silica nanoparticles is used to control the oil recovery and relative permeability curves. Various parametersincluding the type and concentration of polymer, alkaline, and nanosilica particles have been studied.To evaluate the efficiency of these additives, we performed unsteady state displacement experimentsunder the JBN method and determined the pressure gradient across the core samples. Theexperimental observations emphasized that by using the appropriate chemical additives the relativepermeability of the phases is changed towards higher oil relative permeability values, which results inthe oil .recovery. The results of this study can improve the chemical flooding for heavy oil recovery

کلمات کلیدی:

Polymer Flooding, Alkaline-polymer Flooding, Nanopolymer Flooding, Alkaline Nanopolymer Flooding, Unsteady State Displacement Experiments

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