

عنوان مقاله:

Polymer injection mechanism and its design to increase productivity in heterogeneous reservoirs and provide appropriate solutions to improve and enhance efficiency

محل انتشار:

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خلاصه مقاله:

In polymer injection into the reservoir two purposes is followed one, increase of injected water viscosity to reduce the mobility of water and other decrease of formation permeability to prevent the breakthrough which here the second issue is more studied and also how to design a principled polymer flooding according to available parameters is introduced. Provide polymers that are now used in Enhanced Oil Recovery process and their limitations description is another purpose of this paper. Polymer injection in oil reservoirs to enhance the recovery is one of the main strategies to increase sweep efficiency. The most important application of polymer flooding is in the heterogeneous reservoirs or multi-layer reservoirs with different permeability. In this paper has been tried to evaluate the polymer injection mechanism in heterogeneous reservoirs and factors that influencing this process and also solutions that lead to increase the efficiency of this process will be discussed.

کلمات کلیدی:

Polymer- Injection- Heterogeneous- Reservoir- Concentration-Plugging

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