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Surfactant flooding: MSc and BSc thesis problems

Surfactants can increase the oil production by decreasing the interfacial tension between water and oil, and thereby increase the oil production.

Thesis problems

1. Surfactant flooding in fractured models

Spontaneous imbibition of water is an important recovery mechanism in water flooding of fractured reservoirs. Viscous forces have also been found to be an important recovery mechanism in water flooding of fractured reservoirs.

Surfactant floods are carried out in simplified fractured models of different effective permeability using water flooding as reference.

Modelling of surfactant flooding and water flooding in fractured models are carried out using a reservoir simulator.

Students can carry out experimental work or modelling work.

Contact

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