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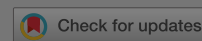
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Effects of Nanoparticle Types on Carbon Dioxide Foam Flooding in Enhanced Oil Recovery

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Abstract

Enhance
nanopar
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to exam
various t
silico
(TiO₂)
(AOS) or
and 1 wt
perform
nanopar
method using half-life measurements. All experiments were conducted at room

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temperature and pressure. The results revealed that all different NPs used were able to improve the stability of CO₂ foam at certain concentrations. However, aluminum oxide NPs showed better results compared to others in terms of foam stability and half-life time. In addition, 0.1 wt% of all NPs types gave the highest foam stability and half-life time. In conclusion, a low concentration of NPs is recommended regardless of type for improving form stability.

Keywords: foam stability nanoparticle enhanced oil recovery immiscible flooding surfactant

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