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**Original Articles** 

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

## Recovery

M. A. Manan, S. Farad, A. Piroozian Section & M. J. A. Esmail Pages 1286-1294 | Published online: 17 Aug 2015

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## Abstra

Enhance nanopar can pote to ex vario silicon d (TiO<sub>2</sub>) of (AOS) or and 1 wi performe nanopar

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method using half-life measurements. All experiments were conducted at room

temperature and pressure. The results revealed that all different NPs used were able to improve the stability of  $CO_2$  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:





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