



Lessons learned from field observations and reservoir modelling

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Publication date:
2019

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):

Jahanbani Veshareh, M. (2019). *Lessons learned from field observations and reservoir modelling*. Abstract from Danish Hydrocarbon Research and Technology Centre Technology Conference 2019, Kolding, Denmark.

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Danish Hydrocarbon Research and Technology Centre Technology Conference 2019

Lessons learned from field observations and reservoir modelling

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CTR2

Over the past few decades, the efficiency of many seawater projects has been compromised by reservoir souring. The major cause of reservoir souring is the significant concentration of sulfate in seawater. Nitrate treatment is a common mitigation strategy for reservoir souring. However, nitrate treatment has not been effective in some projects. Therefore, in some seawater injection projects, operators have stopped nitrate injection. In this work, with the aid of field data and numerical simulations, we illustrate that nitrate injection can be an efficient method, provided that we optimize nitrate injection concentration considering Thermo-Hydro-bioChemical phenomena in the petroleum reservoirs.