

Accepted Manuscript

Title: Effect of Mineralogy on the Adsorption Characteristics of Surfactant – Reservoir Rock System

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PII: S0927-7757(17)30688-X
DOI: <http://dx.doi.org/doi:10.1016/j.colsurfa.2017.07.039>
Reference: COLSUA 21813



To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 16-3-2017
Revised date: 11-7-2017
Accepted date: 11-7-2017

Please cite this article as: Rahul Saha, Ramgopal V.S Uppaluri, Pankaj Tiwari, Effect of Mineralogy on the Adsorption Characteristics of Surfactant – Reservoir Rock System, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* <http://dx.doi.org/10.1016/j.colsurfa.2017.07.039>

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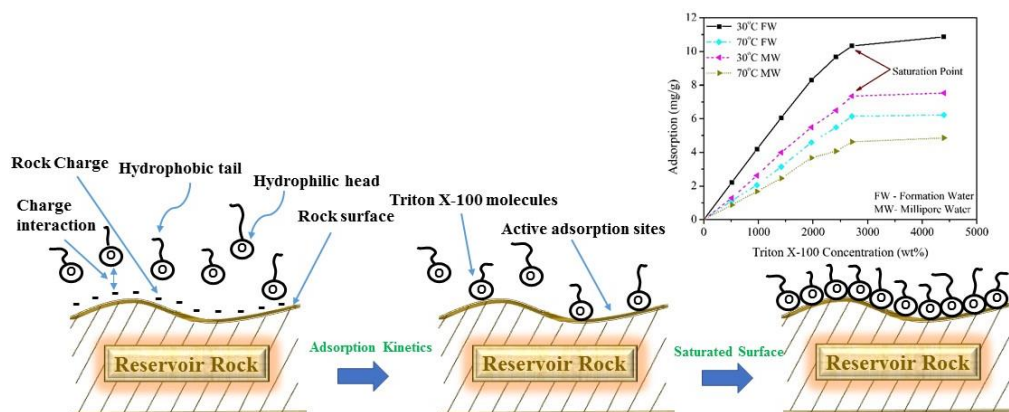
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Graphical Abstract



Highlights

- Characterization of rock indicating minerals composition and surface properties
- Surfactant stability and its interfacial interaction with Assam crude oil
- Effect of different mineral, formation water and temperature on adsorption process
- Langmuir isotherm and pseudo second order are the best predicted models
- Adsorption capacity follow the order of illite > feldspar > montmorillonite > kaolinite

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