

Supplementary Materials: Chemical Force Microscopy Study on the Interactions of COOH Functional Groups with Kaolinite Surfaces: Implications for Enhanced Oil Recovery

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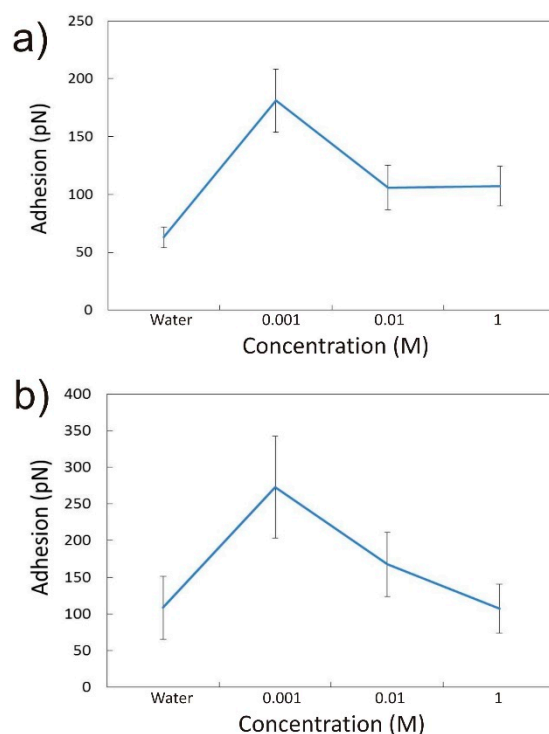


Figure S1. Adhesion graphs for experiments kao-Si-9 (a) and kao-Si-10 (b), performed with a --COOH probe over the siloxane face of kaolinite and in the presence of CaCl_2 of various concentrations (0.001, 0.01 and 1 M). Both graphs show a decrease in adhesion as the CaCl_2 is increased.

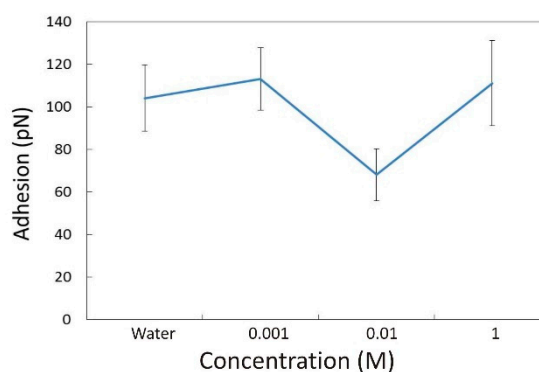


Figure S2. Adhesion graph for experiments kao-Si-9 performed with a --COOH probe over the siloxane face of kaolinite and in the presence of NaCl of various concentrations (0.001, 0.01 and 1 M). No clear trend on the measured adhesion is observed when varying the NaCl concentration.