Supplementary file

Role of interfacial tension on wettability-controlled fluid displacement in porous rock: A capillary-dominated flow and how to control it

Suparit Tangparitkul^{1*}, Anupong Sukee¹, Jiatong Jiang², Chesada Tapanya¹, Nawamin Fongkham¹, Hongbin Yang^{3,4} ¹Department of Mining and Petroleum Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand ²School of Chemical and Process Engineering, University of Leeds, Leeds LS2 9JT, UK ³Key Laboratory of Unconventional Oil & Gas Development (China University of Petroleum (East China)), Ministry of Education, Qingdao 266580, P. R. China ⁴School of Petroleum Engineering, China University of Petroleum (East China), Qingdao, 266580, P. R. China

Email: suparit.t@cmu.ac.th (S. Tangparitkul); anupongsukee@gmail.com (A. Sukee);

pmjj@leeds.ac.uk (J. Jiang); chetsada_t@cmu.ac.th (C. Tapanya); nawamin_fo@cmu.ac.th (N. Fongkham); hongbinyang@upc.edu.cn (H. Yang).
*Corresponding author (ORCID : 0000-0003-4316-3304)

Tangparitkul, S., Sukee, A., Jiang, J., et al. Role of interfacial tension on wettability-controlled fluid displacement in porous rock: A capillary-dominated flow and how to control it. Capillarity, 2023, 9(3): 55-64.

The link to this file is: https://doi.org/10.46690/capi.2023.12.02

This file includes material that complements and expands upon the main article:



Figure S1. Oil recovery results from oil displacement experiment as a function of time and various imbibing fluids: (a) comparison among surfactant-included imbibing fluids with (b) the result re-plotted on semi-log scale. Lines to guide the eye.