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Pore-level Influence of Micro-fracture Parameters on Visco-capillary Behavior of Two-phase Displacements in Porous Media

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Highlights

- The effect of micro-fracture and its properties on two-phase displacement in porous media was studied
- The results were discussed under the effects of capillary number and viscosity ratio and stability phase diagram was proposed
- Medium surface wettability effect in fractured medium was discussed
- Different pore-level events were captured inside the fracture and matrix under studied conditions
- Micro-scale observations were discussed using reported experimental results

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