



Simultaneous oil recovery and residual gas storage: A pore-level analysis using in situ X-ray micro-tomography

S. Iglauer^{a,*}, A. Paluszny^b, M.J. Blunt^b

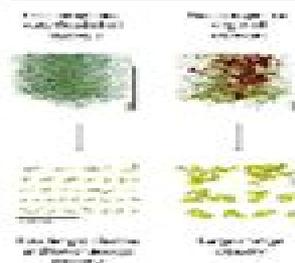
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HIGHLIGHTS

- Waterflooding a reservoir prior to gas injection leads to significantly lower oil recovery.
- More oil can be produced by directly injecting gas into a virgin oil reservoir.
- Waterflooding a reservoir prior to gas injection leads to significantly lower gas storage capacities.
- More residual gas can be stored by directly injecting gas into an oil reservoir.
- Residual oil and gas clusters have a large cluster size distribution and surface area.

GRAPHICAL ABSTRACT



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ABSTRACT

We imaged sandstone cores at residual gas saturation (S_{gr}) with synchrotron radiation at a nominal resolution of $(19 \mu\text{m})^3$. We studied two three-phase flooding sequences: (1) gas injection into a core containing oil and initial water followed by a waterflood (gw process); (2) gas injection into a waterflooded core followed by another waterflood (wgw process). In the gw flood we measured a significantly higher S_{gr} ($=20.4\%$; S_{gr} in the wgw flood was 5.3%) and a significantly lower residual oil saturation (S_{or} ; S_{or} in the gw flood was 21.4% and S_{or} in the wgw flood was 29.3%). We also studied the size distributions of individual trapped clusters in the pore space. We found an approximately power-law distribution $N(r) \propto r^{-\tau}$ with an exponent $\tau = 2.02$ – 2.03 for the residual oil clusters and $\tau = 2.04$ for the gas clusters in the gw flood. τ ($=2.32$) estimated for the gas clusters in the wgw process was significantly different. Furthermore, we calculated the surface area A –volume V relationships for the clusters. Again an approximate power-law relationship was observed, $A \propto V^p$ with $p = 0.75$. Moreover, in the gw flood sequence we identified oil layers sandwiched between the gas and water phases; we did not identify such oil layers in the wgw flood. These results have several important implications for oil recovery, carbon geo-sequestration and contaminant transport: (a) significantly more oil can be produced and much more gas can be stored using a gw flood; (b) cluster size distributions for residual oil or gas clusters in three-phase flow are similar to those observed in analogue two-phase flow; (c) there is a large cluster surface area available for dissolution of the residual phase into an aqueous phase; however, this surface area is significantly smaller than predicted by percolation theory ($p = 1$) which implies that CO_2 dissolution trapping and contamination of aquifers by hazardous organic solvents is slower than expected because of reduced interfacial contact areas.

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