

## Accepted Manuscript

Observations of Nonwetting Phase Snap-off during Drainage

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PII: S0309-1708(18)30279-3  
DOI: [10.1016/j.advwatres.2018.07.016](https://doi.org/10.1016/j.advwatres.2018.07.016)  
Reference: ADWR 3173



To appear in: *Advances in Water Resources*

Received date: 28 March 2018  
Revised date: 26 June 2018  
Accepted date: 29 July 2018

Please cite this article as: A.L. Herring , F.J. Gilby , Z. Li , J.E. McClure , M. Turner , J.P. Veldkamp , L. Beeching , A.P. Sheppard , Observations of Nonwetting Phase Snap-off during Drainage, *Advances in Water Resources* (2018), doi: [10.1016/j.advwatres.2018.07.016](https://doi.org/10.1016/j.advwatres.2018.07.016)

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**Highlights:**

- We investigate nonwetting phase (air and oil) invasion in brine-saturated sandstone
- Snap-off during drainage is observed in all experiments and in simulation results
- Current models of drainage which assume connected phase invasion are incomplete

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