## Accepted Manuscript

Pore-scale modeling of capillary trapping in water-wet porous media: A new cooperative pore-body filling model

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 PII:
 S0309-1708(16)30771-0

 DOI:
 10.1016/j.advwatres.2017.07.008

 Reference:
 ADWR 2893

To appear in:

Advances in Water Resources

Received date:13 December 2016Revised date:13 June 2017Accepted date:12 July 2017

Please cite this article as: L.C. Ruspini, R. Farokhpoor, P.E. Øren, Pore-scale modeling of capillary trapping in water-wet porous media: A new cooperative pore-body filling model, *Advances in Water Resources* (2017), doi: 10.1016/j.advwatres.2017.07.008

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## Highlights

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- A new model for cooperative pore body filling displacement is proposed.
- Capillary trapping is strongly influenced by the interaction between different displacement mechanisms.
- Image-based pore networks from micro-CT scans are used in order to study capillary trapping in water-wet rocks.
- A good agreement between experimental and simulated results is found using the proposed model.

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