

Abstract Submitted
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Monitoring Three-dimensional Fluid Configurations in Porous Media¹ AMBER KRUMMEL, DAVID WEITZ, Harvard University, SCHLUMBERGER COLLABORATION — The spatial and time resolution of confocal microscopy affords the ability to collect three-dimensional images during the course of two-phase flow experiments. We fully instrument the microscope with precise flow and pressure measurements, such that we can begin to understand the origins and consequences of the three-dimensional fluid configurations that evolve in the sample. The porous media used in this work is composed of slightly sintered, borosilicate glass beads that are 150 microns in diameter.

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