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Imaging Analysis of Fines Migration during Water Flow with Salinity Alteration

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Highlights

- High- and low-salinity brine was injected into a Berea sandstone core plug
- Micro-CT images of the core plug was taken before and after injection
- SEM-EDS analysis showed clay fines production
- Laboratory measurements showed an 80% decrease in permeability
- Image analysis show clay straining near the production end of the core plug

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