J066-001 Room: C304 Time: May 27 13:35-13:45

Importance of storage coefficients for fluid flow through porous media and applicability of flow-pump tests for their estimation

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Hydraulic conductivity and storage coefficients are two parameters necessary to analyze fluid flow process through porous media. Here, we review the concept of storage coefficient based on the theory of poroelasticity. Then, applicability of flow-pump permeability tests to estimate storage coefficients is discussed.