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Dynamic capillary pressure impact on the description of LNAPL distribution under water table fluctuation

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The distribution and behaviour of light non-aqueous phase liquids (LNAPLs), such as petroleum hydrocarbons, in subsurface environments are influenced by various factors, including flow and porous media characteristics. Description of the LNAPL distribution usually relies on capillary pressure and relative permeability concepts. According to the literature review, dynamic influence must be taken into account to adequately depict the scenario of two-phase flow in the petroleum reservoir applications. However, there is still uncertainty about this question regarding LNAPL redistribution under groundwater level variations.

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