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Reservoir geochemistry and its application to development and production for petroleum

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Abstract: Reservoir geochemistry, which studies the compositional variations of petroleum reservoir fluids at a variety of spatial and temporal scales, provides information about details of reservoir filling and leakage, and about petroleum mixing and alteration. This information is useful not only for exploration but also for development and production, and gives us insights not available from other methods.

Our study carried out in the Higashi-niigata gas field clearly shows that reservoir geochemistry using light hydrocarbons is effective for assessing reservoir continuity and charge mixing.

We recommend a routine geochemical analysis of reservoir fluids during production.

Key words: [reservoir geochemistry](#), [compositional variation](#), [production](#), [Higashi-niigata gas field](#), [reservoir continuity](#), [charge mixing](#)



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