## Phase Equilibria of CH4 Hydrate in Electrolyte and Porous Media Solutions

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Methane hydrates exist widely in nature, and they have potentially greate importance not only in relation to environmental issue such as global warming, but as a possible energy resource. In this report, clay and NaCl effects of formation of methane hydrate were measured. Three-phase equilibria (H-Lw-V) for  $CH_4$  and NaCl solutions containing clay were measured to examine both electrolyte and capillary effect inside interlayer pores. Equilibrium line of 3wt% NaCl and 10wt% clay system was a little shifted to left side of 3 wt%.

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