

Omni Tester for Rapid Hydrate Equilibrium Prediction

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We developed an omni tester for gas hydrate equilibrium prediction. The omni tester could predict the equilibrium conditions of gas hydrate formed in almost all the salt and alcohol solutions with very complicated compositions. The omni tester also works even the composition of the solution is unknown, such as drilling fluids and sediments. The accuracy of the omni test is comparable to the well-known software. The omni tester makes it possible to predict the gas hydrate equilibrium in composition unknown solution in 10 mins without forming and dissociating hydrate.