

عنوان مقاله:

The salt effect on pressure drop in natural sweet and sour gas hydrate formation

محل انتشار:

ششمین همایش بین المللی توسعه فناوری در نفت، گاز، پالایش و پتروشیمی (سال: 1401)

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خلاصه مقاله:

Natural gas hydrate formation is a serious problem in the gas and oil industry because it can plug pipelines and destroy the equipment. In this work, the influence of NaCl on pressure drop in natural sweet and sour gas hydrate formation in the pressure of ۱۱۵ bar and isothermal conditions ($^{\circ}\text{C}$) have been compared. The results show that the presence of salt has been more effective hydrate growth in the sour gas system due to the role of ions in decreasing the solubility of acidic gases of sour gas (including H_2S and CO_2) in water.

کلمات کلیدی:

Hydrate formation, Sour gas, Salt; Kinetic inhibitor, Sweet gas

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