

## عنوان مقاله:

INVESTIGATION OF POTASSIUM FORMATE AS AN EFFICIENT THERMODYNAMIC GAS HYDRATE INHIBITOR

## محل انتشار:

دومین کنفرانس بین المللی نفت، گاز و پتروشیمی (سال: 1393)

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## خلاصه مقاله:

The phenomenon of solid hydrate formation, results in gas and water molecules reaction in high pressure and low temperature, is well known and also numerous theoretical and experimental researches due to hydrate study have been done. Totally understanding of gas hydrate formation mechanism is essential in order to utilization the best hydrate controlling methods by using the inhibitors. The objective of this paper is laboratory investigation in Potassium formate as an effective thermodynamic inhibitor along with necessary evaluations to determine a suitable percentage of injected inhibitor into the pipeline. Moreover, the inhibitory effect of Potassium formate at concentrations of 10%, 20% and 30% by weight in water, methanol, Monoethylene Glycol (MEG) have been compared. This type of inhibitor has unique properties which encourage researchers to have different attitude to it and doing comprehensive assessments due to being applicable in petroleum and pipeline industries

## کلمات کلیدی:

Hydrate, Inhibitor, Choke, Thermodynamic, Potassium formate

## لینک ثابت مقاله در پایگاه سیویلیکا:

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