



## **INHIBITION EFFECT OF POLY ETHER/METHANOL MIXTURE HYDRATE INHIBITOR**

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Operating gas wells in Persian Gulf poses many challenges. High bottomhole pressure in wells, low bottomhole temperatures, and the Joule-Thompson expansion cooling effect (which often lowers the gas stream temperature below the brine freezing point) at the choke valve of the wellhead of gas lifted wells, create conditions favorable for the formation of gas hydrates in wells and transportation pipelines. The problems are aggravated during cold winter months, when wells and pipelines have strong tendencies to plug with hydrates and ice. Systematic laboratory work was undertaken to explore synergistic effects between methanol and a Low Dosage Hydrate Inhibitor (LDHIs). A strong effect was discovered at a certain ratio of methanol and the low dosage hydrate inhibitor.