

عنوان مقاله:

Natural Gas Dehydration Modeling Using Liquid Absorbents to Maintain Continuous Oil Production in Gas Lift Operation in Secondary Recovery of an Oil Reservoir

محل انتشار:

چهارمین کنفرانس بین المللی نوآوری های اخیر در شیمی و مهندسی شیمی (سال: 1396)

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خلاصه مقاله:

At present, crude oil is considered as the most important and common raw material in the world economy. The stop of crude oil production for any reason will lead to many economic problems damages. Gas injection in to a well is required for the secondary extraction from an oil reservoir. The whole oil production process depends on gas lift or gas injection. Crude oil extraction is improbable in case no gas is injected. The major problem in gas injection into wells is the presence of humidity in gas. Humidity may frost the casing chock valves of wells, which close the aperture completely. Temperature drop occurs due to the considerable pressure drop in the aperture. Aperture obstruction stops crude oil extraction from a well and damages the turbine of compressors. Therefore, we have to control humidity content in the injected gas and apply dehydration systems to prevent continuous crude oil production. Design and Modeling of natural gas dehydration by liquid absorbent TEG, (three ethylene glycol), to maintain continuous oil production in GAS LIFT operation in secondary recovery of an oil reservoir and lean TEG regeneration, was prepared.

کلمات کلیدی:

Gas lift, TEG, absorption, TEG regeneration, Gas dehydration

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