

عنوان مقاله:

Investigation of Revaporization of Retrograde Condensate in a Synthetic model

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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نویسندگان:

hamid reza nasriani - Iranian Central Oil Fields Co.,ICOFC, National Iranian Oil Co., NIOC, Shiraz, Iran

ashkan Akbari Borazjani - Iranian Central Oil Fields Co.,ICOFC, National Iranian Oil Co., NIOC, Shiraz, Iran

خلاصه مقاله:

One of the problems currently in the oil and Gas industry is the difficulty for reaching a high condensate recovery in gas condensate reservoirs. Liquid dropout usually occurs in gas condensate reservoirs, when pressure decreases below the dew point, especially around the well bore. The liquid that is formed during the condensation is trapped by capillary forces or is left behind due to the low liquid relative permeability. Since saturation of this liquid is lower than critical saturation, so the liquid which is economically valuable cannot move in the reservoir and be produced. Gas cycling/injection is a common practice used in the oil and gas fields to alleviate this problem and enhance condensate recovery by preventing condensate liquid loss and to help re-vaporizing retrograde liquid. The main goal of this work is to investigate the lean gas recycling into the PVT cell and the Synthetic model to enhance condensate recovery. In this work, these subjects were studied: the effect of CO₂, Separator gas and N₂ on Condensate recovery enhancement. In the Synthetic model, Deduction of condensed liquid during the different injection volumes related to N₂ is more than Separator gas and separator gas Scenario is more than CO₂. In other words N₂ is the most effective and Co₂ is the least effective scenarios in reduction of condensate in the Synthetic model that the decreasing condensate being due to the direct effect of gas injection on the fluid properties in porous media, while, this result may with injection of the three gas in PVT Cell be different because Diffusion effects and also influence of porous media on the increasing pressure process

کلمات کلیدی:

,Condensate Recovery, Gas injection, CVD, Synthetic Model, gas condensate

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