

عنوان مقاله:

Investigating the effect of different gas injection scenarios on enhancing recovery of a gas condensate reservoir

محل انتشار:

شانزدهمین کنگره ملی مهندسی شیمی ایران (سال: 1397)

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خلاصه مقاله:

Retrograde condensate gas reservoir is one of the popular and challenging gas reservoir types. In this work, the effects of three various injection gases, including N₂, CO₂ and lean hydrocarbon (HC) gas into a gas condensate reservoir is studied. The simulation was done by a compositional model in CMG. The flow rates of 35, 45, 75 and 95 MMscf/d were studied for all the gases. The simulation results showed that N₂ injection has much lower recovery compared to the two other cases. Also, CO₂ injection showed the highest recovery during the simulated time, due to its miscibility with reservoir fluid.

کلمات کلیدی:

.Gas Condensate Reservoir, CMG Simulation, Gas injection, Cumulative production

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