

عنوان مقاله:

Comparison of Methan and Nitrogen Gas Injections with Natural Depletion state in one of Iranian Oil Reservoirs

محل انتشار:

سومین کنگره ملی مهندسی نفت (سال: 1390)

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خلاصه مقاله:

Methane injection or gas cycling is the recovery process of choice for oil reservoirs. For economic reasons however, this process can often not be implemented. An alternative injection gas may be nitrogen, which is relatively cheap and available everywhere. However, it is possible Nitrogen causes stronger liquid drop-out in the mixing zone between the oil and the injected gas, which could reduce recovery. The paper presents the results of slim-tube test and numerical simulations in one of Iranian under saturated oil fields at reservoir condition by nitrogen and methane injections then compares the results with natural depletion of reservoir. The main conclusion of this study is that the displacement of oil by both nitrogen and methane is a developed miscible process, which results in high recoveries, at the end nitrogen injection caused to more field production and prepares better condition of field pressure.

کلمات کلیدی:

(Simulation, Nitrogen gas, Miscible Gas Injection, Minimum Miscibility Pressure (MMP

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