

عنوان مقاله:

(Study of CO₂ Injection for EOR (Enhanced Oil Recovery

محل انتشار:

دومین کنگره مهندسی نفت ایران (سال: 1386)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

CO₂ capture and storage has the potential for significantly reducing the amount of CO₂ released into the atmosphere. CO₂ can be injected into mature oil reservoirs for EOR (Enhanced Oil Recovery) projects, to help recover bypassed oil. The processes are complex and simulation modeling is essential, to help understand and plan largescale CO₂ injection projects. This is a challenging subject, of increasing importance to oil companies and environmentalists throughout the world. For this paper, we will build physically realistic numerical models and investigate the mechanisms which influence oil recovery and CO₂ storage capability. The study will include sensitivity to parameters such as reservoir permeability, temperature and fluid. In addition to pure CO₂ injection, the paper will consider options for including CO₂ in a solvent mixture with other gases such as methane, and WAG injection schemes (Water (Alternating Gas

کلمات کلیدی:

Recovery, Storage, Temperature, Permeability, Impurity, Contamination, Heterogeneity, Solubility

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