عنوان مقاله:

CO2 Injection in order to Enhanced Oil Recovery and Economic Assessment in one of Iranian oil reservoir

محل انتشار:

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تعداد صفحات اصل مقاله: 5

نویسندگان:

(Mohammad Fattahi Mehraban - *Amikabir University of Technology (Polytechnic of Tehran*

(Mehdi Hosseini - *Amikabir University of Technology (Polytechnic of Tehran*

(Mehdi Abbasi - *Amikabir University of Technology (Polytechnic of Tehran*

خلاصه مقاله:

CO2 emission reduction has become an important purpose for industrial countries. CO2 injection is an enhanced oil recovery method currently being considered for application to many of older oil fields. Being an environment friendly method made it much more interesting for scientists.In this paper Iranian oil field, Cheshme Khosh has been studied. Using PVT data and PVTi software, reservoir fluid characteristic has been modeled. For calculation of Minimum Miscibility Pressure (MMP) different methods could be used. Among all of this Equation of State based methods, Slimtube simulation using a well known simulator such as Eclipse is a robust and fast technic. After estimation of MMP different CO2 Injection cases have been studied, again using Eclipse simulator. A large part of this study is about economical assessments. As crude oil price per barrel in recent years is considered, the economical evaluation will seem crucial. Reservoir recovery for two cases of natural depletion and CO2 injection have been out putted and .the most efficient and economic case had been suggested

کلمات کلیدی:

CO2 Injection; Enhanced oil recovery (EOR); Minimum Miscibility Pressure (MMP); Reservoir modeling; PVT modeling