عنوان مقاله:

RESEARCH ON COY FLOODING FOR IMPROVED OIL RECOVERY IN WATER FLOODING ABANDONED RESERVOIRS

محل انتشار:

مجله علوم و فن آوري نفت, دوره 4, شماره 2 (سال: 1393)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Baolun Niu - Production Engineering and Technology Institute, Zhongyuan Oilfield Branch Company, Sinopec,
Puyang, Henan F۵Y001, P R of China

Ruijian Deng - Zhongyuan Oilfield Branch Company, Sinopec, Puyang, Henan Favool, PR of China

Yiqing Lin - School of Foreign Languages, Xi'an Shiyou University, Xi'an, Shaanxi Province, YIOOFA, P. R. China

Xinrong Wu - Production Engineering and Technology Institute, Zhongyuan Oilfield Branch Company, Sinopec,
Puyang, Henan ϜΔΥ••1, P R of China

Zhang Zhang - Oil and Gas Development Company, Zhongyuan Petroleum Engineering Company, Sinopec, Puyang, Henan F۵Y001, P R of China

Changhua Yang - Production Engineering and Technology Institute, Zhongyuan Oilfield Branch Company, Sinopec,
Puyang, Henan F۵Y001, P R of China

Weidong Yang - Production Engineering and Technology Institute, Zhongyuan Oilfield Branch Company, Sinopec,
Puyang, Henan F۵Y001, P R of China

Zhaomin Li - School of Petroleum Engineer, China University of Petroleum, Qingdao, Shandong Province, YFFAA, PR of China

Shaoran Ren - School of Petroleum, China University of Petroleum, Qingdao, Shandong province, YFFAA, PR of China

خلاصه مقاله:

COY injection is an effective technique for improved oil recovery in light oil reservoirs, especially for water flooding abandoned reservoirs. In this study, the lower part of Est reservoirs in Pucheng oilfield was introduced as the target reservoir. By studying the minimum miscible pressure in COY flooding, the reservoir could achieve miscible flooding. Long core displacement experiments proved that water alternating COY flooding could significantly improve the recovery. For the reservoir characteristics, anti-corrosion technology in the process of injection was researched, and the H-Yo inhibitor was screened. A channeling blocking agent in combination with the delayed expansion of gel particles and cross-linked copolymer was used to control the gas fluidity. The Pu 1-1 well groups were optimized to conduct a field trial. The cumulative injected liquid COY was 19719.90 ton, o.YFA PV and the cumulative increasing oil

was ۴۵۲. The predicted recovery will increase by λ.٣%. The successful implementation of the project can provide .technical attempt for completion of energy to succeed and energy-saving emission reduction targets

کلمات کلیدی:Gas Injection, IOR, Water Alternating CO۲ Injection, CO۲ Corrosion, CO۲ Foam

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1858700

