Abstract

EOR methods are used extensively nowadays for increasing ultimate oil recovery and the effectiveness of each method depends on the characteristics of the reservoir. The target of this study is to determine the optimum parameters for design surfactant concentration, and optimum injection rate.

The study started by collecting data from BB-23well which is located in main Bamboo oil field. Then the data introduced to CMG (computer modeling group) software. The study results shows that the optimum inject rate is between 150 and 100 m3/day and the surfactant concentration is 5%.

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التجريد

طرق الاستخلاص المحسن تستخدم حاليا علي نطاق واسع لزيادة استخلاص النفط و كفاءة كل طريقة تعتمد علي خواص المكمن.

الهدف من هذه الراسة هو التحديد الامثل لمتغيرات التصميم لعملية التحفيز السطحي متضمنة التركيز الكيميائي للمادة و معدل الحقن.

الراسة بدأت بجمع البيانات من حقل بامبو وبعد ذلك تم إدخال البيانات و معالجتها باستخدام برنامج (CMG)

اخيرا تم التصميم بناء اختيار افضل تركيزومعدل حقن واظهرت النتائج بان افضل معدل حقن هو بين 150 و 100 متر مكعب لليوم الواحد و افضل تركيز هو 5%.

الإستهلال

قال تعالى :

(وقل اعملـوا فسيـرى الله عملكـم ورسـولـه

والمؤمنـون)

صدق الله العظيم

سورة التوبة الاية (105)

Dedication

.To our prophet Mohammed peace upon him

.To our parents, brothers and sisters

.Their words of inspiration and encouragement

.In pursuit of excellence, still linger

Acknowledgment

We are glad to be your student millions thanks to you, as you gave us the

strength to continue our work, and you become our guidance in that long

Without your help our work won't see the light. Your inspiration, direction and funny

humor you treat us with when we make stupid mistakes, for all that and more we

appreciate everything, and every minute you spent in reading, revising and correcting

.our work

Thank you

Our supervisor: Fatima khalid

Some people work in the dark few people knowing them and their value. They

are great asset and the humanity needs more of them. YOU are from them

for helping

Us and waiting for nothing as reward. Without your help

we won't be here today with this work

Thank you

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At last we want to thank: College of Petroleum Engineering & Technology

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