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A Comprehensive EOR Study of a Highly Fractured Matured Field-Case Study

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Abstract

Some of the Middle East fields are approaching their final stage of primary production. Most of these fields are highly fractured and carbonate in nature. One major problem is the creation of gas and water invaded zones during the history of production from such fields. Hence, the implementation of proper EOR process requires an extensive laboratory work and simulation studies.

A mature field with more than six decades of production has been considered in this study to explore all possible EOR methods. Several EOR processes such as continuous gas injection (GI), WAG (water alternative gas flooding), SWAG (simultaneous WAG), FAWAG (Foam Assisted WAG), and GAGD (Gas Assisted Gravity Drainage) process were studied in laboratory scale and simulation work. The Gas injection and GAGD were found to be unfeasible due the high fracture frequency and early gas breakthrough even with low rate of injection. However, the WAG, SWAG and FWAG were found to be more feasible. This is possibly due to mobility modification by water phase. During SWAG method all pores displaced at the same time, so that a higher ultimate recovery factor achieved sooner in comparison with WAG process. In order to have better recovery for the residual oil, FAWAG method was applied to control the injectivity of injected gas and reduce the interfacial tension (IFT) between residual oil and rock. Surfactant was chosen in different concentration of 5000, 2000, 1000, and 500 ppm. All experiments were carried out under reservoir condition. The FAWAG process was found to be more suitable process for such reservoirs due to its high recovery.

Finally the simulation study was conducted with different patterns of injection and production for all the mentioned EOR scenarios. It was found that the fractures density had an important role in the selection of the optimum pattern.

Introduction

Middle East oil fields are relatively mature and there is a renewed focus on improving and enhancing recovery from many of the large and well established fields. A host of countries such as Oman, Iran, Saudi Arabia and Kuwait are planning on using EOR processes in their future plans; in particular Oman has seen considerable investment in a range of EOR technologies. In fact, implementation of EOR technologies has contributed to the reversal of Oman's production decline. Between 2001 and 2007 Oman's oil production fell by 27%, but by 2009, due mostly to EOR projects, oil production had increased by 17%¹. A wide range of methods, including water injection, gas injection (Associated gas, CO₂, natural gas and nitrogen), chemical injection (surfactant and polymer), WAG (water alternative gas flooding), SWAG (simultaneous WAG), FAWAG (Foam Assisted WAG), Thermal and GAGD (Gas Assisted Gravity Drainage) are classified to improve sweep efficiency and/or lower residual oil saturation.

Injection of a fluid such as water or gas, under appropriate conditions, has become the usual practice to recovery additional oil after primary production. Gas injection after water flooding is the second largest process in enhanced oil recovery processes today. Through the past decades, gas flooding processes have been developed as a successful oil recovery method in many reservoirs. The successful design and employment of a gas injection project is dependent on the favorable fluid and rock properties. In order to decrease viscous fingering and gas overriding phenomena the process of Water Alternating Gas injection consisting of injection of water and gas slugs simultaneously (SWAG) or in the form of cyclic alternation (WAG) is

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Essentials of Reservoir Engineering Pierre Donnez, 2012 Contents of volumes 1 and 2 give a general view of the essential material knowledge for students and professionals Opportunity for deeper investigation is available from the extensive complementary references featured **Petroleum Abstracts. Literature and Patents**, 1988 **Enhanced Oil Recovery Field Case Studies** James J. Sheng, 2013-04-10 This chapter presents microbial enhanced oil recovery MEOR mechanisms first Microbes and nutrients used in MEOR are introduced Screening criteria are listed Finally several microbial field applications are presented These applications include single well microbial huff and puff microbial waterflooding wellbore stimulation to remove wellbore or formation damage and MEOR using indigenous microbes **Enhanced Oil Recovery Field Case Studies** S. Lee, S.I. Kam, 2013-04-10 Based on the enhanced oil recovery EOR survey in Oil and Gas Journal 2010 approximately 280 000 bbl of oil per day or 6% of US crude oil production was produced by carbon dioxide CO₂ EOR Just like any other gas injection processes field CO₂ flooding projects suffer from poor sweep efficiency due to early gas breakthrough unfavorable mobility ratio reservoir heterogeneity viscous fingering and channeling and gravity segregation Many of these problems are believed to be alleviated or overcome by foaming the injected CO₂ Since the 1970s CO₂ foam flooding has been used as a commercially viable method for EOR processes Foams defined as a mixture of internal gas phase in a continuous external liquid phase containing surfactant molecules can improve sweep efficiency significantly by reducing gas mobility especially in the reservoirs with a high level of geological heterogeneity This chapter consists of three main parts the first part Section 2 1 deals with fundamentals on foams in porous media and recent advances in this field of research including three foam states weak foam strong foam and intermediate states and two steady state flow regimes of strong foams the second part Section 2 2 overviews field examples of foam assisted CO₂ EOR processes and the third part Section 2 3 covers typical field injection and production responses if CO₂ foam pilot or field scale treatments are successful **Enhanced Oil Recovery Field Case Studies** Harry L. Chang, 2013-04-10 This chapter covers the alkaline surfactant polymer ASP process and field results Background information describing the history of alkaline alkaline surfactant alkaline polymer and ASP flooding processes is given followed by a review of the requirement of high acid content in the crude oil for these processes to be effective *Enhanced Oil Recovery Field Case Studies* Russell T. Johns, Birol Dindoruk, 2013-04-10 One of the most accepted and widely used technologies for enhanced oil recovery is injection of gas or solvent that is miscible or near miscible with reservoir oil Understanding gas flooding requires a good understanding of the interaction of phase behavior and flow in the reservoir and how oil and gas develop miscibility **Enhanced Oil Recovery Field Case Studies** Tor Austad, 2013-04-10 Water flooding of oil reservoirs has been performed for a century in order to improve oil recovery for two reasons 1 give pressure support to the reservoir to prevent gas production and 2 displace the oil by viscous forces During the last 30 years it was discovered that the wetting properties of the reservoir played a very important role for the efficiency of

the water flood Even though much work have been published on crude oil brine rock CBR interaction related to wetting properties Professor N R Morrow University of Wyoming asked the audience the following question at the European enhanced oil recovery EOR meeting in Cambridge April 2011 Do we understand water flooding of oil reservoirs If we are not able to explain why injection fluids of different ionic composition can have a great impact on displacement efficiency and oil recovery the answer to Morrow s question is NO Researchers have to admit that we do not know the phenomena of water flooding well enough The key to improve our understanding is to obtain fundamental chemical understanding of the CBR interaction by controlled laboratory studies and then propose chemical mechanisms which should be validated also from field experience In this chapter I have tried to sum up our experience and chemical understanding on water based EOR in carbonates and sandstones during the last 20 years with a specific focus on initial wetting properties and possibilities for wettability modification to optimize oil recovery Chemically the CBR interaction is completely different in carbonates and sandstones The proposed chemical mechanisms for wettability modification are used to explain field observations

Enhanced Oil Recovery Field Case Studies Alex Turta,2013-04-10 This chapter contains a thorough coverage of in situ combustion ISC as an enhanced oil recovery method describing its complex aspects in a simple and practical manner It is the first really international treatise of the subject as the international experience was carefully put together Enhanced Oil Recovery Field Case Studies Lewis Brown,2013-04-10 Microbial enhanced oil recovery MEOR is the use of microorganisms to increase the recovery of oil from existing oil reservoirs There are nearly 400 US patents dealing with MEOR some of which add microorganisms to nearly depleted oil reservoirs while others rely on the indigenous microorganisms The patent literature is reviewed and two successful field trials by the author are described A completed field trial using microbial permeability profile modification MPPM in a field using waterflooding as the secondary method of oil recovery was proven to recover over 360 000bbl of oil since 2004 and is predicted to recover another 230 000bbl of oil by 2018 A second field trial using MPPM is being employed in a field with a petroliferous formation at 115 C The field is undergoing CO₂ flooding as the secondary recovery method and MPPM has been proven to produce extra oil from five surrounding wells Enhanced Oil Recovery Field Case Studies Bernard Tremblay,2013-04-10 Cold production is a solution gas drive process in which a reservoir saturated with live heavy oil reservoir is depleted as quickly as possible to generate relatively stable gas bubbles leading to higher oil recoveries 5 10% original oil in place OOIP than for light oils 2 5% OOIP More specifically these bubbles increase the oil gas mixture compressibility which maintains the reservoir pressures for longer times than for light oils *Enhanced Oil Recovery Field Case Studies* Chonghui Shen,2013-04-10 Steam assisted gravity drainage SAGD since its inception over 30 years ago has been developed into one of the primary thermal recovery processes for bitumen in Canadian oil sands deposits This chapter is aimed to provide a high level description of process principle features and challenges The focuses will be on the evaluation of resource quality suited for SAGD development the

process of start up to initiate and establish the gravity drainage the well design and operational aspects to achieve stable operation and maximize thermal performance as well as the importance of integration between the subsurface and surface processes and finally the trend of solvent addition to steam to improve the thermal performance of SAGD **Enhanced Oil Recovery Field Case Studies** Dongmei Wang,2013-04-10 This chapter describes polymer flooding applications as a mobility control and profile modification process to enhance oil recovery from mature fields Successful experience from the Daqing Oilfield the largest oil field application of polymer flooding is summarized The experience will be of considerable value to future polymer flood applications elsewhere in oil fields with appropriate reservoir conditions Based on laboratory research and field applications at Daqing technologies were developed that expand conventional ideas concerning favorable conditions for mobility improvement by polymer flooding These include 1 The oil strata and well pattern design should be optimized and integrated considering interwell connectivity and permeability differential among the oil zones 2 The injection procedures and formulation are the key points when designing a polymer project such as profile modification before polymer injection and zone isolation during polymer injection higher molecular weight MW of the polymer used in the injected slugs large polymer bank size higher polymer concentrations and injection rate based on the well spacing and injection pressure 3 Surface mixing injection facilities oil production and produced water treatment are important to reservoir engineering aspects of polymer flooding *SPE Reservoir Engineering* ,1992 **SPE Drilling Engineering** ,1988 *Nafta* ,1999 *CO2 Flooding* Society of Petroleum Engineers (U.S.),1999 *Journal of Petroleum Technology* ,1994 **Proceedings** ,1992 **Surfactant/polymer Chemical Flooding** ,1988 Proceedings of the Annual Convention - Indonesian Petroleum Association Indonesian Petroleum Association,2003

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Table of Contents Eor Field Case Histories Reprint 23

1. Understanding the eBook Eor Field Case Histories Reprint 23
 - The Rise of Digital Reading Eor Field Case Histories Reprint 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Eor Field Case Histories Reprint 23
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Eor Field Case Histories Reprint 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Eor Field Case Histories Reprint 23
 - Personalized Recommendations
 - Eor Field Case Histories Reprint 23 User Reviews and Ratings
 - Eor Field Case Histories Reprint 23 and Bestseller Lists

5. Accessing Eor Field Case Histories Reprint 23 Free and Paid eBooks
 - Eor Field Case Histories Reprint 23 Public Domain eBooks
 - Eor Field Case Histories Reprint 23 eBook Subscription Services
 - Eor Field Case Histories Reprint 23 Budget-Friendly Options
6. Navigating Eor Field Case Histories Reprint 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Eor Field Case Histories Reprint 23 Compatibility with Devices
 - Eor Field Case Histories Reprint 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Eor Field Case Histories Reprint 23
 - Highlighting and Note-Taking Eor Field Case Histories Reprint 23
 - Interactive Elements Eor Field Case Histories Reprint 23
8. Staying Engaged with Eor Field Case Histories Reprint 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Eor Field Case Histories Reprint 23
9. Balancing eBooks and Physical Books Eor Field Case Histories Reprint 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Eor Field Case Histories Reprint 23
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Eor Field Case Histories Reprint 23
 - Setting Reading Goals Eor Field Case Histories Reprint 23
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Eor Field Case Histories Reprint 23
 - Fact-Checking eBook Content of Eor Field Case Histories Reprint 23
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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