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Enhanced Oil Recovery Field Case Studies

Enhanced oil recovery is a major branch of petroleum engineering that deals with improved oil recovery of petroleum reservoirs with principles of physics using different techniques. There are several formulas used in enhanced oil recovery in determination of important parameters including but not limited to steam injection rate, oil production rate, displacement efficiency, mobility, as well as the characteristics of reservoir and fluids.

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Enhanced oil recovery field case studies bridge the gap between theory and practice in a range of real-world EOR settings. Areas covered include steam and polymer flooding, use of foam, in situ combustion, microorganisms, "smart water"-based EOR in carbonates and sandstones, and many more. Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field. This book aids that effort, providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields. The case studies cover practical problems, underlying theoretical and modeling methods, operational parameters, solutions and sensitivity studies, and performance optimization strategies, benefitting academicians and oil company practitioners alike. Strikes an ideal balance between theory and practice.

Developments in microbial-enhanced oil recovery (MEOR) have made huge advancements over the last few years. A new programmatic approach to MEOR is organic oil recovery (OOR), the management of the microbial ecology to facilitate the release of oil from the reservoir. Using this breakthrough process, which does not require microbes to be injected, over 180 applications have been conducted between 2007 and 2011 in producing oil and water-injection wells in the United States and Canada. This chapter reviews the OOR process, a summary of results and two case studies in detail.

The fundamentals of individual chemical process (alkaline, surfactant, and polymer) and their two-component combinations have been discussed in preceding chapters. This chapter only briefly discusses the synergy and practical issues in the three-component combination—Alkaline-surfactant-polymer process. The practical issues discussed are produced emulsion, scaling, and chromatographic separation. Overall performance and amount of chemicals used in field projects are summarized. Most of the Chinese field cases were presented in Sheng (2011). In this chapter, we only present a few field cases outside China. These projects are the Lawrence field in Illinois, the Cambridge Minnelusa field, the West Kiehl field and Tanner field in Wyoming, and Lagomar LVA-6/9/21 area in Venezuela.

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.

This chapter presents models of wettability alteration using surfactants and upscaling models related to oil recovery in fractured carbonate reservoirs. Chemicals used in carbonate reservoirs are reviewed. The presented field cases where surfactants were used to stimulate oil recovery are the Mauddud carbonate in Bahrain, the Yates field and the Cretaceous Upper Edwards reservoir in Texas, the Cottonwood Creek field in Wyoming, and the Baturaja formation in the Semoga field in Indonesia.

This chapter first summarizes the fundamentals about foams used in enhancing oil recovery. These fundamentals include characteristics of foams, foam stability, mechanisms of foam flooding to enhance oil recovery, and foam flow behavior. Foam application modes and the factors that need to be considered in designing foam flooding applications are discussed. Some survey results about foam projects are summarized. Finally, several field application cases to enhance oil recovery are presented.

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.

This chapter first reviews the mechanisms, theories, and screening criteria of cyclic steam stimulation (CSS) projects. Then we will focus on the practice of CSS projects. Finally field cases are presented which include Cold Lake in Alberta, Canada, Midway Sunset in California, Du 66 block in the Liaohe Shuguang field, Jin 45 Block in the Liaohe Huanxiling field, Gudao Field, Blocks 97 and 98 in the Karamay field, and Gaosheng Field in China.

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.