



AS Flooding

ASP Flooding

# Surfactantpolymer Chemical Floodingii

**Hassan Jassim Alshaer**



## **Surfactant/polymer Chemical Floodingii:**

*Surfactant/polymer Chemical Flooding* E.L. Claridge, AIME. Society of Petroleum Engineers, 1988-01-01      Improved Oil Recovery by Surfactant and Polymer Flooding D.O. Shah, 2012-12-02 Improved Oil Recovery by Surfactant and Polymer Flooding contains papers presented at the 1976 AIChE Symposium on Improved Oil Recovery by Surfactant and Polymer Flooding held in Kansas City Organized into 18 chapters the book includes papers that introduce petroleum reservoirs and discuss interfacial tension molecular forces molecular aspects of ultralow interfacial tension the structure formation and phase inversion of microemulsions and thermodynamics of micellization and related phenomena Papers on adsorption phenomena at solid liquid interfaces and reservoir rocks as well as on flow through porous media studies on polymer solutions microemulsions and soluble oils are also provided Significant topics on molecular microscopic and macroscopic aspects of oil displacement in porous media by surfactant and polymer solutions and related phenomena are also discussed The literature cited in this book forms a comprehensive list of references in relation to improved oil recovery by surfactant and polymer flooding This book will be useful to experts and non experts in this field of research      *Application of Surfactant-polymer Enhanced Oil Recovery in a High- Salinity, High-temperature Carbonate Reservoir* Hassan Jassim Alshaer, 2021 As the world energy demand increases and the discovery of new conventional reservoirs diminishes the need of using enhanced oil recovery EOR methods such as chemical flooding grows A widely used type of chemical EOR is surfactant polymer flooding SP In SP flooding a surfactant reduces the interfacial tension between oil and water to ultra low values allowing residual oil to be mobilized and recovered On the other hand polymer increases the viscosity of the SP slug thus providing better sweep efficiency than waterflooding This EOR method shows promising results in clastic formations Although SP flooding works well in sandstone reservoirs it faces major drawbacks when applied in high temperature high salinity carbonate formations Such harsh environment leads to both surfactant and polymer degradation Moreover because of the positive charge of carbonate surfaces and the large concentration of divalent cations large surfactant retention occurs Here we present the performance of a novel SP formulation that achieves ultra low interfacial tension between oil and water at injected brine salinity of 57 000 ppm with lower surfactant retention than current retention values in carbonates We conducted four core flooding experiments in Indiana limestone cores at 100 C to evaluate the performance of the SP formulation in recovering residual oil The formulation consists of carboxylates internal olefin sulfonates and lauryl betaine surfactants A mixture of dead oil and 20 wt % toluene was used to represent the live oil at ambient pressure The first three core floods recovered 75.5% 72% and 71% respectively However when 1wt% NaPA was injected before the chemical flood in the fourth experiment 90% of the original oil in place was recovered reducing the residual oil to only 4.5% We found that the optimum SP slug size is 0.39PV at which the surfactant retention is 0.29mg/g rock In addition reducing the frontal velocity to 0.5ft/day resulted in doubling the retention The moderate surfactant retention makes SP flooding in carbonates feasible

because less surfactant is needed to reach ultra low interfacial tension This new formulation enables application of SP flooding in high temperature high salinity carbonate reservoirs which in return will increase ultimate oil recovery from conventional reservoirs *Surfactant/polymer Chemical Flooding*, 1988 *Enhanced Oil Recovery Field Case Studies* James J. Sheng, 2013-04-10 In this chapter the fundamentals of surfactant flooding are covered which include microemulsion properties phase behavior interfacial tension capillary desaturation surfactant adsorption and retention and relative permeabilities The surfactant polymer interactions are discussed The mechanisms and screening criteria are briefly discussed The field cases presented include low tension waterflooding Loma Novia Wichita County Regular field sequential micellar polymer flooding El Dorado Sloss micellar polymer flooding Torchlight and Delaware Childers and Minas SP project preparation and SP flooding Gudong

**Experimental Studies on Polymer and Alkaline-Surfactant-Polymer Flooding to Improve Heavy Oil Recovery** Razieh Solatpour, 2015

**Surfactants for Enhanced Oil Recovery Applications** Muhammad Sagir, Muhammad Mushtaq, M. Suleman Tahir, Muhammad Bilal Tahir, Abdul Ravoof Shaik, 2020-01-29 This book provides a concise treatise on the use of surfactants in enhanced oil recovery EOR including information on key types of surfactants and their respective applications in the wider petroleum industry The authors discuss carbon dioxide EOR alkaline surfactant polymer flooding strategies and the use of surfactants as a means of reducing interfacial tension while also paying special attention to the challenges involved in using surfactants for enhanced oil recovery such as the difficult issue of surfactant adsorption on reservoir rock All chapters highlight and are based on the authors own laboratory scale case studies Given its content the book offers a valuable asset for graduate students of petroleum and chemical engineering as well as researchers in the field of chemical enhanced oil recovery It will also be of interest to professionals involved in enhanced industrial oil recovery

**SURFACTANT - POLYMER INTERACTION FOR IMPROVED OIL RECOVERY.**, 1998 The goal of this research is to use the interaction between a surfactant and a polymer for efficient displacement of tertiary oil by improving slug integrity adsorption and mobility control Surfactant polymer flooding has been shown to be highly effective in laboratory scale linear floods The focus of this proposal is to design an inexpensive surfactant polymer mixture that can efficiently recover tertiary oil by avoiding surfactant slug degradation high adsorption and viscous heterogeneity fingering A mixture comprising a pseudo oil with appropriate surfactant and polymer has been selected to study micellar polymer chemical flooding The physical properties and phase behavior of this system have been determined A surfactant polymer slug has been designed to achieve high efficiency recovery by improving phase behavior and mobility control Recovery experiments have been performed on linear cores and a quarter 5 spot The same recovery experiments have been simulated using a commercially available simulator UTCHEM Good agreement between experimental data and simulation results has been achieved

**Chemical Methods** Abdolhossein Hemmati-Sarapardeh, Mahin Schaffie, Mohammad Ranjbar, Mingzhe Dong, Zhaomin Li, 2021-11-30 Chemical Methods a new release in the Enhanced Oil

Recovery series helps engineers focus on the latest developments in one fast growing area Different techniques are described in addition to the latest technologies in data mining and hybrid processes Beginning with an introduction to chemical concepts and polymer flooding the book then focuses on more complex content guiding readers into newer topics involving smart water injection and ionic liquids for EOR Supported field case studies illustrate a bridge between research and practical application thus making the book useful for academics and practicing engineers This series delivers a multi volume approach that addresses the latest research on various types of EOR Supported by a full spectrum of contributors this book gives petroleum engineers and researchers the latest developments and field applications to drive innovation for the future of energy Presents the latest research and practical applications specific to chemical enhanced oil recovery methods Helps users understand new research on available technology including chemical flooding specific to unconventional reservoirs and hybrid chemical options Includes additional methods such as data mining applications and economic and environmental considerations

*Surfactants* Laurier Lincoln Schramm, Laurier L. Schramm, 2000-03-23 This 2000 book provides an introduction to the nature occurrence physical properties propagation and uses of surfactants in the petroleum industry

*Petroleum Reservoir Engineering Practice* Nnaemeka Ezekwe, 2010-09-09 The Complete Up to Date Practical Guide to Modern Petroleum Reservoir Engineering This is a complete up to date guide to the practice of petroleum reservoir engineering written by one of the world's most experienced professionals Dr Nnaemeka Ezekwe covers topics ranging from basic to advanced focuses on currently acceptable practices and modern techniques and illuminates key concepts with realistic case histories drawn from decades of working on petroleum reservoirs worldwide Dr Ezekwe begins by discussing the sources and applications of basic rock and fluid properties data Next he shows how to predict PVT properties of reservoir fluids from correlations and equations of state and presents core concepts and techniques of reservoir engineering Using case histories he illustrates practical diagnostic analysis of reservoir performance covers essentials of transient well test analysis and presents leading secondary and enhanced oil recovery methods Readers will find practical coverage of experience based procedures for geologic modeling reservoir characterization and reservoir simulation Dr Ezekwe concludes by presenting a set of simple practical principles for more effective management of petroleum reservoirs With *Petroleum Reservoir Engineering Practice* readers will learn to Use the general material balance equation for basic reservoir analysis Perform volumetric and graphical calculations of gas or oil reserves Analyze pressure transients tests of normal wells hydraulically fractured wells and naturally fractured reservoirs Apply waterflooding gasflooding and other secondary recovery methods Screen reservoirs for EOR processes and implement pilot and field wide EOR projects Use practical procedures to build and characterize geologic models and conduct reservoir simulation Develop reservoir management strategies based on practical principles Throughout Dr Ezekwe combines thorough coverage of analytical calculations and reservoir modeling as powerful tools that can be applied together on most reservoir analyses Each topic is presented

concisely and is supported with copious examples and references The result is an ideal handbook for practicing engineers scientists and managers and a complete textbook for petroleum engineering students

*Alkali-surfactant-polymer (ASP) Flooding - Potential and Simulation for Alaskan North Slope Reservoir* Tejas S. Ghorpade, 2014 Enhanced oil recovery EOR is essential to recover bypassed oil and improve recovery factor Alkaline surfactant polymer ASP flooding is a chemical EOR method that can be used to recover heavy oil containing organic acids from sandstone formations It involves injection of alkali to generate in situ surfactants improve sweep efficiency and reduce interfacial tension IFT between displacing and displaced phase and injection of a polymer to improve mobility ratio typically it is followed by extended waterflooding The concentration of alkali surfactant and polymer used in the process depends on oil type salinity of solution pressure temperature of the reservoir and injection water quality This project evaluates the effect of waterflooding on recovery calculates the recovery factor for ASP flooding and optimum concentration of alkali surfactant and polymer for an Alaskan reservoir Also the effects of waterflooding and improvement with ASP flooding are evaluated and compared Studies of these effects on oil recovery were analyzed with a Computer Modeling Group CMG generated model for the Alaskan North Slope ANS reservoir Based on a literature review and screening criteria the Western North Slope WNS 1 reservoir was selected for the ASP process A CMG WinProp simulator was used to create a fluid model and regression was carried out with the help of actual field data The CMG WinProp model was prepared with a 5 spot well injection pattern using the CMG STARS simulator Simulation runs conducted for primary and waterflooding processes showed that the recovery factor increased from 3% due to primary recovery to 45% due to waterflooding at 500 psi drawdown for 60 years with a constant producing gas oil ratio GOR ASP flooding was conducted to increase recovery further and optimum ASP parameters were calculated for maximum recovery Also effect of alkali surfactant and polymer on recovery was observed and compared with ASP flood If proved effective the use of ASP chemicals for ANS reservoirs to increase the recovery factor could replace current miscible gas injection with chemical EOR It will help to develop chemical flooding processes for heavier crude oil produced in harsh environments and create new horizons for chemical industries in Alaska

*Commercial Scale Simulations of Surfactant/polymer Flooding* Changli Yuan, 2012 The depletion of oil reserves and higher oil prices has made chemical enhanced oil recovery EOR methods more attractive in recent years Because of geological heterogeneity unfavorable mobility ratio and capillary forces conventional oil recovery including water flooding leaves behind much oil in reservoir often as much as 70% OOIP original oil in place Surfactant polymer flooding targets these bypassed oil left after waterflood by reducing water mobility and oil water interfacial tension The complexity and uncertainty of reservoir characterization make the design and implementation of a robust and effective surfactant polymer flooding to be quite challenging Accurate numerical simulation prior to the field surfactant polymer flooding is essential for a successful design and implementation of surfactant polymer flooding A recently developed unified polymer viscosity model was implemented into our existing polymer

module within our in house reservoir simulator the Implicit Parallel Accurate Reservoir Simulator IPARS The new viscosity model is capable of simulating not only the Newtonian and shear thinning rheology of polymer solution but also the shear thickening behavior which may occur near the wellbore with high injection rates when high molecular weight Partially Hydrolyzed Acrylamide HPAM polymers are injected We have added a full capability of surfactant polymer flooding to TRCHEM module of IPARS using a simplified but mechanistic and user friendly approach for modeling surfactant water oil phase behavior The features of surfactant module include 1 surfactant component transport in porous media 2 surfactant adsorption on the rock 3 surfactant oil water phase behavior transitioned with salinity of Type II Type III and Type II phase behaviors 4 compositional microemulsion phase viscosity correlation and 5 relative permeabilities based on the trapping number With the parallel capability of IPARS commercial scale simulation of surfactant polymer flooding becomes practical and affordable Several numerical examples are presented in this dissertation The results of surfactant polymer flood are verified by comparing with the results obtained from UTCHEM a three dimensional chemical flood simulator developed at the University of Texas at Austin The parallel capability and scalability are also demonstrated

**Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs** Alireza Bahadori, 2018-08-18 Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery including methods used in emerging unconventional reservoirs Going beyond traditional secondary methods this reference includes advanced water based EOR methods which are becoming more popular due to CO<sub>2</sub> injection methods used in EOR and methods specific to target shale oil and gas activity Rounding out with a chapter devoted to optimizing the application and economy of EOR methods the book brings reservoir and petroleum engineers up to speed on the latest studies to apply Enhanced oil recovery continues to grow in technology and with ongoing unconventional reservoir activity underway enhanced oil recovery methods of many kinds will continue to gain in studies and scientific advancements Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go to reference Explains enhanced oil recovery methods focusing specifically on those used for unconventional reservoirs Includes real world case studies and examples to further illustrate points Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes a full range of the latest and future methods for enhanced oil recovery including chemical waterflooding CO<sub>2</sub> injection and thermal

**Chemical Enhanced Oil Recovery** Patrizio Raffa, Pablo Druetta, 2019-07-22 This book aims at presenting describing and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes A large part of the world economy depends nowadays on non renewable energy sources most of them of fossil origin Though the search for and the development of newer greener and more

sustainable sources have been going on for the last decades humanity is still fossil fuel dependent Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place Enhanced Oil Recovery EOR processes are aimed at further increasing this value Among these chemical EOR techniques including polymer flooding present a great potential in low and medium viscosity oilfields Describes recent advances in chemical enhanced oil recovery Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR Includes both experimental and theoretical studies About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR coatings and smart materials He co authored about 40 articles in peer reviewed journals Pablo Druetta works as lecturer at the University of Groningen RUG and as engineering consultant He received his Ph D from RUG in 2018 and has been teaching at a graduate level for 15 years His research focus lies on computational fluid dynamics CFD

**Chemical Nanofluids in Enhanced Oil Recovery** Rahul Saha,Pankaj Tiwari,Ramgopal V.S. Uppaluri,2021-09-14 Sustainable world economy requires a steady supply of crude oil without any production constraints Thus the ever increasing energy demand of the entire world can be mostly met through the enhanced production from crude oil from existing reservoirs With the fact that newer reservoirs with large quantities of crude oil could not be explored at a faster pace it will be inevitable to produce the crude oil from matured reservoirs at an affordable cost Among alternate technologies the chemical enhanced oil recovery EOR technique has promising potential to recover residual oil from matured reservoirs being subjected to primary and secondary water flooding operations Due to pertinent complex phenomena that often have a combinatorial role and influence the implementation of chemical EOR schemes such as alkali surfactant polymer flooding and their combinations necessitates upon a fundamental understanding of the potential mechanisms and their influences upon one another and desired response variables Addressing these issues the book attempts to provide useful screening criteria guidelines and rules of thumb for the identification of process parametric sets including reservoir characteristics and response characteristics such as IFT adsorption etc that favor alternate chemical EOR systems Finally the book highlights the relevance of nanofluid nanoparticle for conventional and unconventional reservoirs and serves as a needful resource to understand the emerging oil recovery technology Overall the volume will be of greater relevance for practicing engineers and consultants that wish to accelerate on field applications of chemical and nano fluid EOR systems Further to those budding engineers that wish to improvise upon their technical know how the book will serve as a much needed repository

**Recovery Improvement** Qiwei Wang,2022-09-06 Oil and Gas Chemistry Management Series brings an all inclusive suite of tools to cover all the sectors of oil and gas chemicals from drilling completion to production processing storage and transportation The third reference in the series Recovery Improvement delivers the critical chemical basics while also covering the latest research developments and practical solutions Organized by the type of enhanced recovery approaches this volume facilitates engineers to fully understand



underlying theories potential challenges practical problems and keys for successful deployment In addition to the chemical gas and thermal methods this reference volume also includes low salinity smart water microorganism and nanofluid based recovery enhancement and chemical solutions for conformance control and water shutoff in near wellbore and deep in the reservoir Supported by a list of contributing experts from both academia and industry this book provides a necessary reference to bridge petroleum chemistry operations from theory into more cost efficient and sustainable practical applications Covers background information and practical guidelines for various recovery enhancement domains including chapters on enhanced oil recovery in unconventional reservoirs and carbon sequestration in CO<sub>2</sub> gas flooding for more environment friendly and more sustainable initiatives Provides effective solutions to control chemistry related issues and mitigation strategies for potential challenges from an industry list of experts and contributors Delivers both up to date research developments and practical applications featuring various case studies

*Enhanced Oil Recovery*, 1981-01-01

Enhanced Oil Recovery     Advancements in Chemical Enhanced Oil Recovery Tushar Sharma, Krishna Raghav Chaturvedi, Tarek Ganat, Imtiaz Ali, 2024-09-06 This comprehensive book presents the latest advances in chemical EOR considered to be an efficient technique to recover bypassed oil and residual oil trapped in reservoirs The volume first provides an introduction to chemical EOR and discusses its viability From there it delves in the various EOR methods including low salinity water flooding polymer and surfactant flooding foam flooding nanofluid flooding hybrid methods ionic liquid applications and others The book covers chemical synthesis of EOR agents and numerical simulation of compositional models in porous media including a description of possible application of nanotechnology acting as a booster of traditional chemical EOR processes

*Chemical Enhanced Oil Recovery* Patrizio Raffa, Pablo Druetta, 2019-07-22 This book aims at presenting describing and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes A large part of the world economy depends nowadays on non renewable energy sources most of them of fossil origin Though the search for and the development of newer greener and more sustainable sources have been going on for the last decades humanity is still fossil fuel dependent Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place Enhanced Oil Recovery EOR processes are aimed at further increasing this value Among these chemical EOR techniques including polymer flooding present a great potential in low and medium viscosity oilfields Describes recent advances in chemical enhanced oil recovery Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR Includes both experimental and theoretical studies About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR coatings and smart materials He co authored about 40 articles in peer reviewed journals Pablo

Druetta works as lecturer at the University of Groningen RUG and as engineering consultant He received his Ph D from RUG in 2018 and has been teaching at a graduate level for 15 years His research focus lies on computational fluid dynamics CFD

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