

Table 1. Input parameters for the Base Case simulation

Property	Value
Reservoir size	660ft x 660ft x 140ft
Reservoir gridblock size	66ft x 66ft x 28ft
No. of gridblocks	11 x 11 x 5
Permeability	Stochastic, MDM method using $V_{DP}=0.8$, $K_{avg}= 500$ md (arithmetic)
Porosity	0.136
Initial water saturation	0.2
Water viscosity	0.7 cp
Oil viscosity	7.78 cp
Initial reservoir pressure	900 psi
Injection pressure	1250 psi
Production constraint	250 psi
Chemical slug composition	0.611 meq/ml salt, 2.5 vol % surfactant, 0.1 wt % polymer, water
Polymer drive composition	0.611 meq/ml salt, 0.1 wt % polymer, water
Post Flush	0.611 meq/ml brine

A Framework To Design And Optimize Chemical Flooding Processes

Minjie Lin



A Framework To Design And Optimize Chemical Flooding Processes:

A FRAMEWORK TO DESIGN AND OPTIMIZE CHEMICAL FLOODING PROCESSES., 2005 The goal of this proposed research is to provide an efficient and user friendly simulation framework for screening and optimizing chemical microbial enhanced oil recovery processes The framework will include 1 a user friendly interface to identify the variables that have the most impact on oil recovery using the concept of experimental design and response surface maps 2 UTCHEM reservoir simulator to perform the numerical simulations and 3 an economic model that automatically imports the simulation production data to evaluate the profitability of a particular design Such a reservoir simulation framework is not currently available to the oil industry The objectives of Task 1 are to develop three primary modules representing reservoir chemical and well data The modules will be interfaced with an already available experimental design model The objective of the Task 2 is to incorporate UTCHEM reservoir simulator and the modules with the strategic variables and developing the response surface maps to identify the significant variables from each module The objective of the Task 3 is to develop the economic model designed specifically for the chemical processes targeted in this proposal and interface the economic model with UTCHEM production output Task 4 is on the validation of the framework and performing simulations of oil reservoirs to screen design and optimize the chemical processes

The South-Carolina and Georgia almanac, *Surfactant Science and Technology* Laurence S. Romsted, 2014-05-05 Surfactant research explores the forces responsible for surfactant assembly and the critical industrial medical and personal applications including viscosity control microelectronics drug stabilization drug delivery cosmetics enhanced oil recovery and foods Surfactant Science and Technology Retrospects and Prospects a Festschrift in honor of Dr Kash Mittal provides a broad perspective with chapters contributed by leaders in the fields of surfactant based physical organic and materials chemistries Many of the authors participated in a special symposium in Melbourne Australia honoring Kash Mittal s 100th edited book at the 18th Surfactants in Solution SIS meeting Each chapter provides an overview of a specific research area with discussions on past present and future directions The book is divided into six parts Part I reviews the evolution of theoretical models for surfactant self assembly and introduces a model for interpreting ion specific effects on aggregate properties Part II focuses on interactions of surfactant solutions with solid supports uses contact angles to understand hydrophobic hydrophilic changes in a lipid layer uses surface tension to understand molecular arrangements at interfaces reviews spreading phenomena discusses pattern formation on solid surfaces and applies tensiometry to probe flavor components of espresso Part III discusses novel DNA based materials multifunctional poly amino acid s based graft polymers for drug delivery and polymeric surfactants for stabilizing suspensions and emulsions Part IV introduces farm based biosurfactants from natural products and greener biosurfactants from bacteria Part V explores lyotropic liquid crystals and their applications in triggered drug release microemulsion properties and controlled drug release the role of hydrotopes in formulations and in enhancing solubilization in liquid

crystals the potential of ionic liquids to generate tunable and selective reaction media and provides an overview of stimuli responsive surfactants Focusing on emulsions Part VI reviews the design of emulsion properties for various commercial applications the role of surfactants in the oil and gas industries and surfactant mechanisms for soil removal via microemulsions and emulsification

Modern Chemical Enhanced Oil Recovery James J. Sheng, 2010-11-25 Crude oil development and production in U S oil reservoirs can include up to three distinct phases primary secondary and tertiary or enhanced recovery During primary recovery the natural pressure of the reservoir or gravity drive oil into the wellbore combined with artificial lift techniques such as pumps which bring the oil to the surface But only about 10 percent of a reservoir's original oil in place is typically produced during primary recovery Secondary recovery techniques to the field's productive life generally by injecting water or gas to displace oil and drive it to a production wellbore resulting in the recovery of 20 to 40 percent of the original oil in place In the past two decades major oil companies and research organizations have conducted extensive theoretical and laboratory EOR enhanced oil recovery researches to include validating pilot and field trials relevant to much needed domestic commercial application while western countries had terminated such endeavours almost completely due to low oil prices In recent years oil demand has soared and now these operations have become more desirable This book is about the recent developments in the area as well as the technology for enhancing oil recovery The book provides important case studies related to over one hundred EOR pilot and field applications in a variety of oil fields These case studies focus on practical problems underlying theoretical and modelling methods operational parameters e.g. injected chemical concentration slug sizes flooding schemes and well spacing solutions and sensitivity studies and performance optimization strategies The book strikes an ideal balance between theory and practice and would be invaluable to academicians and oil company practitioners alike Updated chemical EOR fundamentals providing clear picture of fundamental concepts Practical cases with problems and solutions providing practical analogues and experiences Actual data regarding ranges of operation parameters providing initial design parameters Step by step calculation examples providing practical engineers with convenient procedures

11th International Symposium on Process Systems Engineering - PSE2012, 2012-12-31 While the PSE community continues its focus on understanding synthesizing modeling designing simulating analyzing diagnosing operating controlling managing and optimizing a host of chemical and related industries using the systems approach the boundaries of PSE research have expanded considerably over the years While early PSE research was largely concerned with individual units and plants the current research spans wide ranges of scales in size molecules to processing units to plants to global multinational enterprises to global supply chain networks biological cells to ecological webs and time instantaneous molecular interactions to months of plant operation to years of strategic planning The changes and challenges brought about by increasing globalization and the the common global issues of energy sustainability and environment provide the motivation for the theme of PSE2012 Process Systems

Engineering and Decision Support for the Flat World Each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher Reports on the state of the art advances in the various fields of process systems engineering Addresses common global problems and the research being done to solve them *Profit Maximization Techniques for Operating Chemical Plants* Sandip K. Lahiri, 2020-07-13 A systematic approach to profit optimization utilizing strategic solutions and methodologies for the chemical process industry In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry leaders are searching for new ways to deploy profit optimization strategies Profit Maximization Techniques For Operating Chemical Plants defines strategic planning and implementation techniques for managers senior executives and technical service consultants to help increase profit margins The book provides in depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements there is a plethora of information to help keep plant operations on budget The book also includes information on Take away methods and techniques for identifying and exploiting potential areas to improve profit within the plant Focus on latest Artificial Intelligence based modeling knowledge discovery and optimization strategies to maximize profit in running plant Describes procedure to develop advance process monitoring and fault diagnosis in running plant Thoughts on engineering design best practices and monitoring to sustain profit improvements Step by step guides to identifying building and deploying improvement applications For leaders and technologists in the industry who want to maximize profit margins this text provides basic concepts guidelines and step by step guides specifically for the chemical plant sector Development of Methodology for Optimization and Design of Chemical Flooding Davood Ghorbani, 2008 Chemical flooding is one of the most difficult enhanced oil recovery methods and was considered a high risk process in the past Some reasons are low and uncertain oil price high chemical prices lack of confidence in performance of the chemical flooding process long project life and reservoir and process uncertainties However with significant improvement in simulation and optimization tools and high oil price chemical flooding is feasible in terms of economical and carefully implemented design Optimization of chemical floods requires complex integration of reservoir chemical economics properties and also drilling and production strategies Many of these variables are uncertain parameters and many simulations are required to capture the effect of the uncertain and decision variables These simulations could become very expensive and may not be feasible to consider all of the required simulation models The goal of this research is the development of a methodology for optimization and design of chemical flooding of candidate oil reservoirs We performed a comprehensive sensitivity study of reservoir and fluid properties that have significant influence on the oil production during the chemical flooding by performing a series of reservoir simulation runs For performing the reservoir simulation runs this study used the UT_IRSP platform and the multiphase multicomponent

chemical flooding simulator called UTCHEM During the study UT_IRSP and UTCHEM have been modified by adding new modules functions and variables For example a deviated well module was implemented in UTCHEM to study deviated wells Deviated well module allows the users to introduce deviated wells in reservoir and import the well locations similar to Eclipse or CMG simulators A time dependent well schedule module was implemented in the UT_IRSP framework This enhancement allows the well placement optimization studies to find the best time to add new wells and change the status of the well for example from a producer to an injector in order to have an optimum development plan An advanced post processing module was added to UT_IRSP in order to design screen and optimize complex cases for chemical enhanced oil recovery processes such as investigating the well patterns well spacing and type of the well horizontal vs vertical wells An experimental design and response surface methodology with integrated economic model were utilized in this study to obtain the optimum design under uncertainties and have an optimal combination of the decision variables This methodology is based on applying multi regression analysis and ANOVA analysis of variance between the objective function i e dependent variable which is net present value NPV in chemical flooding and other uncertain and process variables independent variables The economic analysis model used the discounted cash flow method to calculate net present value at the economic life of process internal rate of return and growth rate of return for each simulation case Also the optimizer OptQuest is launched with a goal of maximizing the mean NPV The range and the risk associated with the optimum design was studied using Monte Carlo simulation of objective function of the response variable and other independent variables This methodology was applied for complex chemical flood cases such as well placement change of status of wells as a function of time or well pattern and well spacing to investigate the best well scenario from recovery and economics point of view

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