



Thermal Recovery Processes

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5.1 INTRODUCTION

The recovery processes of oil are increased due to dependency of the industry to them and the requirements to petrochemical products. This leads to oil extraction from unconventional reservoirs to compensate the possible deficiency between production and demand, and oil with low API gravity. The total amount of heavy oils and bitumen is about 9 trillion barrels. The characteristics of these oils include low API gravity, high viscosity, and asphaltene content [1]. One technique for increasing the displacement which leads to enhancement of heavy oil recovery is viscosity reduction [2]. The fluid resistance to flow is called viscosity. Reduction of this quantity leads to increasing the mobility value as temperature is increased [3]. This fact states the significance of enhanced oil recovery (EOR) (thermal EOR) processes, in which the generated heat at the surface or in situ from steam or hot water is injected through the porous media [4].



5.2 VARIOUS THERMAL ENHANCED OIL RECOVERY PROCESSES

Various methods of thermal EOR are applied in different ranges of viscosity. For example, steam flooding is effective for heavy oil extraction, cyclic steam stimulation (CSS) is applicable for extra-heavy oil, and steam-assisted gravity drainage (SAGD) process is introduced for the recovery of bitumen [5]. This process leads to generation of greenhouse gases as a result of burning the fuel which may cause environmental problems. Solvent steam process was then introduced to resolve this environmental issue by generating less amount of steam. This leads to reduction in amount of emitted greenhouse gases [6,7]. If solvents for instance normal alkanes, CO₂, and CH₄ are also added to this stream, viscosity reduction would be increased

Thermal Recovery Processes

Lingsheng Yao



Thermal Recovery Processes:

Thermal Recovery Processes, 1973 **Thermal Recovery Processes** Society of Petroleum Engineers of AIME., 1964

Thermal Recovery Methods Philip Davidson White, Jon T. Moss, 1983 **Thermal Recovery** Michael Prats, 1982

Hybrid Enhanced Oil Recovery Processes for Heavy Oil Reservoirs Xiaohu Dong, Huiqing Liu, Zhangxing Chen, 2021-10-27

Hybrid Enhanced Oil Recovery Processes for Heavy Oil Reservoirs Volume 73 systematically introduces these technologies As the development of heavy oil reservoirs is emphasized the petroleum industry is faced with the challenges of selecting cost effective and environmentally friendly recovery processes This book tackles these challenges with the introduction and investigation of a variety of hybrid EOR processes In addition it addresses the application of these hybrid EOR processes in onshore and offshore heavy oil reservoirs including theoretical experimental and simulation approaches This book will be very useful for petroleum engineers technicians academics and students who need to study the hybrid EOR processes In addition it will provide an excellent reference for field operations by the petroleum industry Introduces emerging hybrid EOR processes and their technical details Includes case studies to help readers understand the application potential of hybrid EOR processes from different points of view Features theoretical experimental and simulation studies to help readers understand the advantages and challenges of each process *Enhanced Recovery Methods for Heavy Oil and Tar Sands* James G. Speight, 2013-11-25 Recent oil price fluctuations continue to stress the need for more efficient recovery of heavy oil and tar sand bitumen resources With conventional production steadily declining advances in enhanced recovery will be required so that oil production can be extended and reservoirs last longer A practical guide on heavy oil related recovery methods is essential for all involved in heavy oil production To feed this demand James Speight a well respected scientist and author provides a must read for all scientists engineers and technologists that are involved in production enhancement In *Enhanced Recovery Methods for Heavy Oil and Tar Sands* Speight provides the current methods of recovery for heavy oil and tar sand bitumen technology broken down by thermal and non thermal methods An engineer graduate student or professional working with heavy oil upcoming and current will greatly benefit from this much needed text *Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands* James G. Speight, 2016-02-24 *Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands* Second Edition explores the importance of enhanced oil recovery EOR and how it has grown in recent years thanks to the increased need to locate unconventional resources such as heavy oil and shale Unfortunately petroleum engineers and managers aren't always well versed in the enhancement methods that are available when needed or the most economically viable solution to maximize their reservoir's productivity This revised new edition presents all the current methods of recovery available including the pros and cons of each Expanded and updated as a great preliminary text for the newcomer to the industry or subject matter this must have EOR guide teaches all the basics needed including all thermal and non thermal methods along with discussions of viscosity sampling and the technologies surrounding

offshore applications Enables users to quickly learn how to choose the most efficient recovery method for their reservoir while evaluating economic conditions Presents the differences between each method of recovery with newly added real world case studies from around the world Helps readers stay competitive with the growing need of extracting unconventional resources with new content on how these complex reservoirs interact with injected reservoir fluids *The Effect of Reservoir Characterization on Thermal Recovery Processes* Hongmei Huang,1998 **Enhanced Oil Recovery** Ajay Mandal,Keka Ojha,2023-11-29 Oil recovery efficiency can be increased by applying the enhanced oil recovery EOR processes which are based on the improvement of mobility ratio reduction of interfacial tension between oil and water wettability alteration reduction of oil viscosity formation of oil banks and so forth This book describes the different EOR methods and their mechanisms which are traditionally used after conventional primary and secondary processes The present scenario of different EOR processes at both the field application stage and research stage is also covered Further it discusses some of the recent advances in EOR processes such as low salinity water flooding the application of nanotechnology in EOR microbial EOR carbonated water injection etc Features Comprehensive coverage of all enhanced oil recovery EOR methods Discussion of reservoir rock and fluid characteristics Illustration of steps in design and field implementation as well as the screening criteria for process selection Coverage of novel topics of nanotechnology in EOR and hybrid EOR method and low salinity waterfloods Emphasis on recent technologies feasibility and implementation of hybrid technologies This book is aimed at graduate students professionals researchers chemists and personnel involved in petroleum engineering chemical engineering surfactant manufacturing polymer manufacturing oil gas service companies and carbon capture and utilization *Hybrid Enhanced Oil Recovery Using Smart Waterflooding* Kun Sang Lee, Ji Ho Lee,2019-04-03 Hybrid Enhanced Oil Recovery Using Smart Waterflooding explains the latest technologies used in the integration of low salinity and smart waterflooding in other EOR processes to reduce risks attributed to numerous difficulties in existing technologies also introducing the synergetic effects Covering both lab and field work and the challenges ahead the book delivers a cutting edge product for today s reservoir engineers Explains how smart waterflooding is beneficial to each EOR process such as miscible chemical and thermal technologies Discusses the mechanics and modeling involved using geochemistry Provides extensive tools such as reservoir simulations through experiments and field tests establishing a bridge between theory and practice Thermal Methods of Oil Recovery Thomas C. Boberg,1988-03-31 A large fraction of the free world s oil reserves is obtainable only by the application of thermal enhanced recovery methods This book provides an introductory overview of the important methods for oil recovery by application of heat It describes the more important field tests of these methods and the operational problems encountered The author offers an integrated approach to making preliminary comparative forecasts for the principal methods of thermal oil recovery and describes a novel method for insulating steam injection wells that is not widely used Simplified calculation methods are presented by which preliminary estimates of process behavior can be made and

results of more sophisticated numerical simulations are presented for steam injection applications There is thorough discussion of cyclic steam stimulation steam flooding and in situ combustion Includes numerous case histories Basic Concepts in Enhanced Oil Recovery Processes M. Baviere,1991 *Heat Transfer Processes in Engineering Materials* Andreas Öchsner,Irina V. Belova,Graeme E. Murch,2013-03-25 Special topic volume with invited peer reviewed papers only

Heavy and Thermal Oil Recovery Production Mechanisms ,2002 The Stanford University Petroleum Research Institute SUPRI A conducts a broad spectrum of research intended to help improve the recovery efficiency from difficult to produce reservoirs including heavy oil and fractured low permeability systems Our scope of work is relevant across near mid and long term time frames The primary functions of the group are to conduct direction setting research transfer research results to industry and educate and train students for careers in industry Presently research in SUPRI A is divided into 5 main project areas These projects and their goals include 1 Multiphase flow and rock properties to develop better understanding of the physics of displacement in porous media through experiment and theory This category includes work on imbibition flow in fractured media and the effect of temperature on relative permeability and capillary pressure 2 Hot fluid injection to improve the application of nonconventional wells for enhanced oil recovery and elucidate the mechanisms of steamdrive in low permeability fractured porous media 3 Mechanisms of primary heavy oil recovery to develop a mechanistic understanding of so called foamy oil and its associated physical chemistry 4 In situ combustion to evaluate the effect of different reservoir parameters on the insitu combustion process 5 Reservoir definition to develop and improve techniques for evaluating formation properties from production information What follows is a report on activities for the past year Significant progress was made in all areas Thermal Enhanced Oil Recovery Processes with Vertical and Horizontal Wells Avik Sarkar,1994 Numerical Modeling of Thermal Recovery Processes Stanford University. Petroleum Research Institute,M. Soliman,W. E. Brigham,R. Raghaven,1981 **Petroleum Abstracts** ,1988-10 Efficient Simulation of Thermal Enhanced Oil Recovery Processes Zhouyuan Zhu,2011 Simulating thermal processes is usually computationally expensive because of the complexity of the problem and strong nonlinearities encountered In this work we explore novel and efficient simulation techniques to solve thermal enhanced oil recovery problems We focus on two major topics the extension of streamline simulation for thermal enhanced oil recovery and the efficient simulation of chemical reaction kinetics as applied to the in situ combustion process For thermal streamline simulation we first study the extension to hot water flood processes in which we have temperature induced viscosity changes and thermal volume changes We first compute the pressure field on an Eulerian grid We then solve for the advective parts of the mass balance and energy equations along the individual streamlines accounting for the compressibility effects At the end of each global time step we account for the nonadvective terms on the Eulerian grid along with gravity using operator splitting We test our streamline simulator and compare the results with a commercial thermal simulator Sensitivity studies for compressibility gravity and thermal

conduction effects are presented We further extended our thermal streamline simulation to steam flooding Steam flooding exhibits large volume changes and compressibility associated with the phase behavior of steam strong gravity segregation and override and highly coupled energy and mass transport To overcome these challenges we implement a novel pressure update along the streamlines a Glowinski scheme operator splitting and a preliminary streamline finite volume hybrid approach We tested our streamline simulator on a series of test cases We compared our thermal streamline results with those computed by a commercial thermal simulator for both accuracy and efficiency For the cases investigated we are able to retain solution accuracy while reducing computational cost and gaining connectivity information from the streamlines These aspects are useful for reservoir engineering purposes In traditional thermal reactive reservoir simulation mass and energy balance equations are solved numerically on discretized reservoir grid blocks The reaction terms are calculated through Arrhenius kinetics using cell averaged properties such as averaged temperature and reactant concentrations For the in situ combustion process the chemical reaction front is physically very narrow typically a few inches thick To capture accurately this front centimeter sized grids are required that are orders of magnitude smaller than the affordable grid block sizes for full field reservoir models To solve this grid size effect problem we propose a new method based on a non Arrhenius reaction upscaling approach We do not resolve the combustion front on the grid but instead use a subgrid scale model that captures the overall effects of the combustion reactions on flow and transport i e the amount of heat released the amount of oil burned and the reaction products generated The subgrid scale model is calibrated using fine scale highly accurate numerical simulation and laboratory experiments This approach significantly improves the computational speed of in situ combustion simulation as compared to traditional methods We propose the detailed procedures to implement this methodology in a field scale simulator Test cases illustrate the solution consistency when scaling up the grid sizes in multidimensional heterogeneous problems The methodology is also applicable to other subsurface reactive flow modeling problems with fast chemical reactions and sharp fronts Displacement front stability is a major concern in the design of all the enhanced oil recovery processes Historically premature combustion front break through has been an issue for field operations of in situ combustion In this work we perform detailed analysis based on both analytical methods and numerical simulation We identify the different flow regimes and several driving fronts in a typical 1D ISC process For the ISC process in a conventional mobile heavy oil reservoir we identify the most critical front as the front of steam plateau driving the cold oil bank We discuss the five main contributors for this front stability instability viscous force condensation heat conduction coke plugging and gravity Detailed numerical tests are performed to test and rank the relative importance of all these different effects [SPE Reprint Series](#) ,1985 **The Journal of Industrial and Engineering Chemistry** ,1922

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