



Enhanced Recovery Of Residual And Heavy Oils

**Tushar Sharma, Krishna Raghav
Chaturvedi, Tarek Ganat, Imtiaz Ali**

Enhanced Recovery Of Residual And Heavy Oils:

Enhanced Recovery of Residual and Heavy Oils M. M. Schumacher, 1980 Enhanced Recovery of Residual and Heavy Oils Schumacher MM Ed, 1980 *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 **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 Application of Optimal Control Theory to Enhanced Oil Recovery W. Fred Ramirez, 1987-01-01 In recent years enhanced oil recovery techniques have received much attention in the oil industry Enhanced oil recovery methods can be divided into three major categories thermal processes which include steam flooding steam stimulation and in situ combustion chemical processes which include surfactant polymer injection polymer flooding and caustic flooding and miscible displacement processes which include miscible hydrocarbon displacement carbon dioxide injection of large amounts of rather expensive fluids into oil bearing reservoir formations Commercial application of any enhanced oil recovery process relies upon economic projections that show a decent return on the investment Because of high chemical costs it is important to optimize enhanced oil recovery

processes to provide the greatest recovery at the lowest chemical injection cost The aim of this book is to develop an optimal control theory for the determination of operating strategies that maximize the economic attractiveness of enhanced oil recovery processes The determination of optimal control histories or operating strategies is one of the key elements in the successful usage of new enhanced oil recovery techniques The information contained in the book will therefore be both interesting and useful to all those working in petroleum engineering petroleum management and chemical engineering

Acoustic and Vibrational Enhanced Oil Recovery George V. Chilingar, Kazem Majid Sadeghi, Oleg Leonidovich Kuznetsov, 2022-05-16 ACOUSTIC AND VIBRATIONAL ENHANCED OIL RECOVERY Oil and gas is still a major energy source all over the world and techniques like these which are more environmentally friendly and inexpensive than many previous development and production technologies are important for making fossil fuels more sustainable and less hazardous to the environment Based on research they did in the 1970s in Russia and the United States the authors discovered that oil rate production increased noticeably several days after the occurrence of an earthquake when the epicenter of the earthquake was located in the vicinity of the oil producing field The increase in oil flow remained higher for a considerable period of time and it led to a decade long study both in the Russia and the US which gradually focused on the use of acoustic vibrational energy for enhanced oil recovery after reservoirs waterflooded In the 1980s they noticed in soil remediation studies that sonic energy applied to soil increases the rate of hydrocarbon removal and decreases the percentage of residual hydrocarbons In the past several decades the use of various seismic vibration techniques have been used in various countries and have resulted in incremental oil production This outstanding new volume validates results of vibro stimulation tests for enhanced oil recovery using powerful surface based vibro seismic sources It proves that the rate of displacement of oil by water increases and the percentage of nonrecoverable residual oil decreases if vibro energy is applied to the porous medium containing oil Audience Petroleum Engineers Chemical Engineers Earthquake and Energy engineers Environmental Engineers Geotechnical Engineers Mining and Geological Engineers Sustainability Engineers Physicists Chemists Geologists and other professionals working in this field *Energy Research Abstracts*, 1990 **Enhanced Oil Recovery, II** E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1989-07-01 Written by foremost experts in the field and formulated with attention to classroom use for advanced studies in reservoir characterization and processes this book reviews and summarises state of the art progress in the field of enhanced oil recovery EOR All of the available techniques alkaline flooding surfactant flooding carbon dioxide flooding steam flooding in situ combustion gas injection miscible flooding microbial recovery and polymer flooding are discussed and compared Together with Volume I it presents a complete text on enhanced recovery technology and hence is an almost indispensable reference text This second volume compliments the first by presenting as complete an analysis as possible of current oilfield theory and technology for accomplishment of maximum production of oil Many different processes have been developed and field tested for enhancement of oil recovery The emerging philosophy is that no

single process is applicable to all petroleum reservoirs Each must be treated as unique and carefully evaluated for characteristics that are amenable to one or two of the proven technologies of EOR This book will aid the engineer in field evaluation and selection of the best EOR technology for a given oilfield Even the emerging technology of microbial applications to enhance oil recovery are reviewed and explained in terms that are easily understood by field engineers The book is presented in a manner suitable for graduate studies The only addition required of teachers is to supply example problems for class work An appendix includes a reservoir mathematic model and program for general application that can also be used for teaching

Oil Shales and Tar Sands United States. Department of Energy,1977 *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

Incentives for Tertiary Enhanced Recovery Techniques, Crude Oil Production United States. Congress. Senate. Committee on Energy and Natural Resources,1978 *Heavy Oil Recovery and Upgrading* James G. Speight,2019-03-05 Heavy Oil Recovery and Upgrading covers properties factors methods and all current and upcoming processes giving engineers new and experienced the full spectrum of recovery choices including SAGD horizontal well technology and hybrid approaches Moving on to the upgrading and refining of the product the book also includes information on in situ upgrading refining options and hydrogen production Rounding out with environmental effects management methods on refinery waste and the possible future configurations within the refinery this book provides engineers with a single source to make decisions and manage the full range of challenges

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 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

Enhanced Oil Recovery Potential in the United States United States. Congress. Office of Technology Assessment, 1978 Contracts for Field Projects and Supporting Research on Enhanced Oil Recovery and Improved Drilling Technology, 1982 *Enhanced Oil Recovery Field Case Studies* James J. Sheng, 2013-04-10 Enhanced Oil Recovery Field Case Studies bridges 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 Focuses on practical problems underlying theoretical and modeling methods and

operational parameters Designed for technical professionals covering the fundamental as well as the advanced aspects of EOR

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 CO₂ 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 CO₂ injection and thermal

Fossil Energy Update, 1981

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

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