



# 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, CO<sub>2</sub>, and CH<sub>4</sub> are also added to this stream, viscosity reduction would be increased

# Thermal Recovery Processes

**Andreas Öchsner, Irina V.  
Belova, Graeme E. Murch**

## **Thermal Recovery Processes:**

*Thermal Recovery Methods* Philip Davidson White, Jon T. Moss, 1983      *Thermal Recovery Processes*, 1973      **Thermal Recovery Processes** Society of Petroleum Engineers of AIME., 1964      **Thermal Recovery** Michael Prats, 1982

*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      *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

**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

Basic Concepts in Enhanced Oil Recovery Processes M. Baviere,1991

**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

**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 *Petroleum Engineering Handbook* Howard B. Bradley,Fred W. Gipson,1987 [Numerical Modeling of Thermal Recovery Processes](#) Stanford University. Petroleum Research Institute,M. Soliman,W. E. Brigham,R. Raghaven,1981 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 **Petroleum Abstracts** ,1988-10 **The Journal of Industrial and Engineering Chemistry** ,1922

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## **Table of Contents Thermal Recovery Processes**

1. Understanding the eBook Thermal Recovery Processes
  - The Rise of Digital Reading Thermal Recovery Processes
  - Advantages of eBooks Over Traditional Books
2. Identifying Thermal Recovery Processes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Thermal Recovery Processes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Thermal Recovery Processes
  - Personalized Recommendations
  - Thermal Recovery Processes User Reviews and Ratings
  - Thermal Recovery Processes and Bestseller Lists
5. Accessing Thermal Recovery Processes Free and Paid eBooks
  - Thermal Recovery Processes Public Domain eBooks
  - Thermal Recovery Processes eBook Subscription Services

- Thermal Recovery Processes Budget-Friendly Options
- 6. Navigating Thermal Recovery Processes eBook Formats
  - ePub, PDF, MOBI, and More
  - Thermal Recovery Processes Compatibility with Devices
  - Thermal Recovery Processes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Thermal Recovery Processes
  - Highlighting and Note-Taking Thermal Recovery Processes
  - Interactive Elements Thermal Recovery Processes
- 8. Staying Engaged with Thermal Recovery Processes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Thermal Recovery Processes
- 9. Balancing eBooks and Physical Books Thermal Recovery Processes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Thermal Recovery Processes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Thermal Recovery Processes
  - Setting Reading Goals Thermal Recovery Processes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thermal Recovery Processes
  - Fact-Checking eBook Content of Thermal Recovery Processes
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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