



ENHANCED OIL RECOVERY

Field
Planning and
Development
Strategies

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Enhanced Oil Recovery Field Planning And Development Strategies

Lewin and Associates

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Enhanced Oil Recovery Field Planning And Development Strategies:

Enhanced Oil Recovery Vladimir Alvarado, Eduardo Manrique, 2010-07-30 Enhanced Oil Recovery EOR evaluations focused on asset acquisition or rejuvenation involve a combination of complex decisions using different data sources EOR projects have been traditionally associated with high CAPEX and OPEX as well as high financial risk which tend to limit the number of EOR projects launched In this book the authors propose workflows for EOR evaluations that account for different volumes and quality of information This flexible workflow has been successfully applied to oil property evaluations and EOR feasibility studies in many oil reservoirs The methodology associated with the workflow relies on traditional look up tables XY correlations etc and more advanced data mining for analog reservoir search and geology indicators screening methods emphasizing identification of analogues to support decision making The screening phase is combined with analytical or simplified numerical simulations to estimate full field performance by using reservoir data driven segmentation procedures Case Studies from Asia Canada Mexico South America and the United States Assets evaluated include reservoir types ranging from oil sands to condensate reservoirs Different stages of development and information availability are discussed

Enhanced Oil Recovery Suhas Kukarni, 2015-03 Enhanced Oil Recovery EOR evaluations focused on asset acquisition or rejuvenation involve a combination of complex decisions using different data sources EOR projects have been traditionally associated with high CAPEX and OPEX as well as high financial risk which tend to limit the number of EOR projects launched In this book the authors propose workflows for EOR evaluations that account for different volumes and quality of information This flexible workflow has been successfully applied to oil property evaluations and EOR feasibility studies in many oil reservoirs The methodology associated with the workflow relies on traditional look up tables XY correlations etc and more advanced data mining for analog reservoir search and geology indicators screening methods emphasizing identification of analogues to support decision making The screening phase is combined with analytical or simplified numerical simulations to estimate full field performance by using reservoir data driven segmentation procedures

Introduction to Enhanced Oil Recovery (EOR) Processes and Bioremediation of Oil-Contaminated Sites Laura Romero-Zerón, 2012-05-23 This book offers practical concepts of EOR processes and summarizes the fundamentals of bioremediation of oil contaminated sites The first section presents a simplified description of EOR processes to boost the recovery of oil or to displace and produce the significant amounts of oil left behind in the reservoir during or after the course of any primary and secondary recovery process it highlights the emerging EOR technological trends and the areas that need research and development while the second section focuses on the use of biotechnology to remediate the inevitable environmental footprint of crude oil production such is the case of accidental oil spills in marine river and land environments The readers will gain useful and practical insights in these fields

Primer on Enhanced Oil Recovery Vladimir Vishnyakov, Baghir Suleimanov, Ahmad Salmanov, Eldar Zeynalov, 2019-11-05 Primer on Enhanced Oil Recovery gives the oil and gas market the introductory

information it needs to cover the physical and chemical properties of hydrocarbon reservoir fluids and rock drilling operations rock fluid interactions recovery methods and the economy of enhanced oil recovery projects Beginning with introductory materials on basic physics and oil rock interaction the book then progresses into well known types of EOR such as gas injection and microbial EOR Other sections cover hybrid EOR smart water low salinity and solar EOR Worldwide case study examples give engineers the go to starting point they need to understand the fundamentals of EOR techniques and data Discusses basic physics and chemistry in oil oil rock interaction variation of oil and interaction properties with temperature Helps readers understand why and when EOR can be used Includes data on EOR implementation and economics

Nanofluids and Their Engineering Applications K.R.V. Subramanian,Tubati Nageswara Rao,Avinash

Balakrishnan,2019-06-18 Nanofluids are solid liquid composite material consisting of solid nanoparticles suspended in liquid with enhanced thermal properties This book introduces basic fluid mechanics conduction and convection in fluids along with nanomaterials for nanofluids property characterization and outline applications of nanofluids in solar technology machining and other special applications Recent experiments on nanofluids have indicated significant increase in thermal conductivity compared with liquids without nanoparticles or larger particles strong temperature dependence of thermal conductivity and significant increase in critical heat flux in boiling heat transfer all of which are covered in the book Key Features Exclusive title focusing on niche engineering applications of nanofluids Contains high technical content especially in the areas of magnetic nanofluids and dilute oxide based nanofluids Feature examples from research applications such as solar technology and heat pipes Addresses heat transfer and thermodynamic features such as efficiency and work with mathematical rigor Focused in content with precise technical definitions and treatment

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 Thermal

Methods Abdolhossein Hemmati-Sarapardeh, Alireza Alamatsaz, Mingzhe Dong, Zhaomin Li, 2023-04-18 Thermal Methods Volume Two the latest release in the Enhanced Oil Recovery series helps engineers focus on the latest developments in this fast growing area In the book different techniques are described in addition to the latest technologies in data mining and hybrid processes Supported field case studies are included to illustrate a bridge between research and practical applications making it useful for both academics and practicing engineers Structured to start with thermal concepts and steam flooding the book s editors then advance to more complex content guiding engineers into areas such as hybrid thermal methods and edgier technologies that bridge solar and nuclear energy Supported by a full spectrum of contributors this book gives petroleum engineers and researchers the latest research developments and field applications to drive innovation for the future of energy Presents the latest understanding surrounding the updated research and practical applications specific to thermal enhanced oil recovery methods Provides an analysis of editors research on available technology including hybrid thermal solvent processes and dual pipe configurations Teaches about additional methods such as data mining applications and economic and environmental considerations **Unconventional Resources** Cenk Temizel, Cengiz Yegin, Jihoon Kim, Luigi Saputelli, Ole Torsæter, 2025-02-27 The oil and gas sector is a vital player in the energy transition With their vast resource potential unconventional shale plays will be an essential part in enabling this change Unconventional Resources serves as a comprehensive reference covering the latest technologies methodologies and applications of unconventional shale resources in the oil and gas industry and their role in the evolution of the sector s energy transition This book Offers an overview of geophysics geology and reservoir characterization in unconventional resources Discusses drilling well stimulation and completion production engineering and artificial lift Covers reservoir management and surveillance recovery enhancement production forecasting and surface facilities and testing Details technical and technological advances including machine learning AI data analytics and Industry 4 0 Explores the latest methods workflows in performance analysis in unconventional plays Employs integrated and hybrid approaches to the energy transition The book provides surface and subsurface technical professionals in the oil and gas industry a thorough overview of unconventional along with the integrated hybrid applications that will enable them to stay current with the industry s transition Applied Petroleum Reservoir Engineering Ronald E. Terry, J. Brandon Rogers, 2014-08-02 The Definitive Guide to Petroleum Reservoir Engineering Now Fully Updated to Reflect New Technologies and Easier Calculation Methods Craft and Hawkins classic introduction to petroleum reservoir engineering is now fully updated for new technologies and methods preparing students and practitioners to succeed in the modern industry In Applied Petroleum Reservoir Engineering Third Edition renowned expert Ronald E Terry and project engineer J Brandon Rogers review the history of reservoir engineering define key terms carefully introduce the material balance approach and show how to apply it with many types of reservoirs Next they introduce key principles of fluid flow water influx and advanced recovery including hydrofracturing Throughout they present

field examples demonstrating the use of material balance and history matching to predict reservoir performance For the first time this edition relies on Microsoft Excel with VBA to make calculations easier and more intuitive This edition features Extensive updates to reflect modern practices and technologies including gas condensate reservoirs water flooding and enhanced oil recovery Clearer more complete introductions to vocabulary and concepts including a more extensive glossary Several complete application examples including single phase gas gas condensate undersaturated oil and saturated oil reservoirs Calculation examples using Microsoft Excel with VBA throughout Many new example and practice problems using actual well data A revamped history matching case study project that integrates key topics and asks readers to predict future well production

Improved and Enhanced Oil Recovery in Illinois Through Reservoir Characterization Donald F. Oltz,1994 **Research and development in enhanced oil recovery** Lewin and Associates,1976 Petroleum Abstracts ,1993 The Journal of Canadian Petroleum Technology ,1999 SPE Reprint Series ,1998 Proceedings ... SPE Annual Technical Conference and Exhibition Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1995

Proceedings of the Annual Convention - Indonesian Petroleum Association Indonesian Petroleum Association,1992 JPT. Journal of Petroleum Technology ,1999-07 *Journal of Petroleum Technology* ,2003-07

Government Reports Annual Index ,1986 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z **Technical reports of the Federal Energy Administration** United States. Federal Energy Administration,1977 The Federal Energy Administration will issue bibliographies of its technical reports on a cumulative basis

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