

DEVELOPMENTS IN PETROLEUM SCIENCE 12

fundamentals of fractured reservoir engineering

BY

T.D. VAN GOLF-RACHT



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Fundamentals Of Fractured Reservoir Engineering

S. Luthi



Fundamentals Of Fractured Reservoir Engineering:

Fundamentals of Fractured Reservoir Engineering T.D. van Golf-Racht, 1982-04-01 In the modern language of reservoir engineering by reservoir description is understood the totality of basic local information concerning the reservoir rock and fluids which by various procedures are extrapolated over the entire reservoir Fracture detection evaluation and processing is another essential step in the process of fractured reservoir description In chapter 2 all parameters related to fracture density and fracture intensity together with various procedures of data processing are discussed in detail After a number of field examples developed in Chap 3 the main objective remains the quantitative evaluation of physical properties This is done in Chap 4 where the evaluation of fractures porosity and permeability their correlation and the equivalent ideal geometrical models versus those parameters are discussed in great detail Special rock properties such as capillary pressure and relative permeability are reexamined in the light of a double porosity reservoir rock In order to complete the results obtained by direct measurements on rock samples Chap 5 examines fracturing through indirect measurements from various logging results The entire material contained in these five chapters defines the basic physical parameters and indicates procedures for their evaluation which may be used further in the description of fractured reservoirs Fundamentals of Fractured Reservoir Engineering Theodor D. Golf-Racht, 1982 **The Practice of Reservoir Engineering** L.P.

Dake, 2013-10-22 The Practice of Reservoir Engineering has been written for those in the oil industry requiring a working knowledge of how the complex subject of hydrocarbon reservoir engineering can be applied in the field in a practical manner The book is a simple statement of how to do the job and is particularly suitable for reservoir production engineers and is illustrated with 27 examples and exercises based mainly on actual field developments It will also be useful for those associated with the subject of hydrocarbon recovery Geoscientists petrophysicists and those involved in the management of oil and gas fields will also find it particularly relevant The new <http://www.elsevier.nl/locate/isbn-0444506705> Practice of Reservoir Engineering Revised Edition will be available soon **Well Test Analysis for Fractured Reservoir Evaluation**

G. Da Prat, 1990-11-19 The main purpose of this book is to provide the reader with a basic understanding of the behaviour of fractured reservoirs using evaluation techniques based on processing pressure and flow rate data resulting from production testing It covers the fundamental reservoir engineering principles involved in the analysis of fluid flow through fractured reservoirs the application of existing models to field cases and the evaluation and description of reservoirs based on processed data from pressure and production tests The author also discusses production decline analysis the understanding of which is a key factor influencing completion or abandonment of a well or even a field The theoretical concepts are presented as clearly and simply as possible in order to aid comprehension The book is thus suitable for training and educational purposes and will help the reader who is unfamiliar with the subject acquire the necessary skills for successful interpretation and analysis of field data One of the most important features of the book is that it fills the gap between field

operations and research in regard to proper management of reservoirs The book also contains a computer program FORTRAN language which can be incorporated in existing software designed for reservoir evaluation type curves generation test design and interpretation can be achieved by using this program Petroleum engineers reservoir engineers petroleum geologists research engineers and students in these fields will be interested in this book as a reference source It can also be used as a text book for training production and reservoir engineering professionals It should be available in university and oil company libraries

Carbonate Reservoir Characterization: A Geologic-Engineering Analysis, Part I G.C. Dominguez,F. Samaniego V.,1992-01-17 This book integrates those critical geologic aspects of reservoir formation and occurrence with engineering aspects of reservoirs and presents a comprehensive treatment of the geometry porosity and permeability evolution and producing characteristics of carbonate reservoirs The three major themes discussed are the geometry of carbonate reservoirs and relationship to original depositional facies distributions the origin and types of porosity and permeability systems in carbonate reservoirs and their relationship to post depositional diagenesis the relationship between depositional and diagenetic facies and producing characteristics of carbonate reservoirs and the synergistic geologic engineering approach to the exploitation of carbonate reservoirs The intention of the volume is to fully acquaint professional petroleum geologists and engineers with an integrated geologic and engineering approach to the subject As such it presents a unique critical appraisal of the complex parameters that affect the recovery of hydrocarbon resources from carbonate rocks The book may also be used as a text in petroleum geology and engineering courses at the advanced undergraduate and graduate levels

Carbonate Reservoir Characterization: A Geologic-Engineering Analysis, Part II S.J. Mazzullo,H.H. Rieke,G.V. Chilingarian,1996-11-22 This second volume on carbonate reservoirs completes the two volume treatise on this important topic for petroleum engineers and geologists Together the volumes form a complete modern reference to the properties and production behaviour of carbonate petroleum reservoirs The book contains valuable glossaries to geologic and petroleum engineering terms providing exact definitions for writers and speakers Lecturers will find a useful appendix devoted to questions and problems that can be used for teaching assignments as well as a guide for lecture development In addition there is a chapter devoted to core analysis of carbonate rocks which is ideal for laboratory instruction Managers and production engineers will find a review of the latest laboratory technology for carbonate formation evaluation in the chapter on core analysis The modern classification of carbonate rocks is presented with petroleum production performance and overall characterization using seismic and well test analyses Separate chapters are devoted to the important naturally fractured and chalk reservoirs Throughout the book the emphasis is on formation evaluation and performance This two volume work brings together the wide variety of approaches to the study of carbonate reservoirs and will therefore be of value to managers engineers geologists and lecturers

Essentials of Reservoir Engineering Pierre Donnez,2012 Contents of volumes 1 and 2 give a general view of the essential material knowledge for students and

professionals Opportunity for deeper investigation is available from the extensive complementary references featured

Quantitative Methods in Reservoir Engineering Wilson C Chin, 2016-10-01 Quantitative Methods in Reservoir Engineering Second Edition brings together the critical aspects of the industry to create more accurate models and better financial forecasts for oil and gas assets Updated to cover more practical applications related to intelligent infill drilling optimized well pattern arrangement water flooding with modern wells and multiphase flow this new edition helps reservoir engineers better lay the mathematical foundations for analytical or semi analytical methods in today's more difficult reservoir engineering applications Authored by a worldwide expert on computational flow modeling this reference integrates current mathematical methods to aid in understanding more complex well systems and ultimately guides the engineer to choose the most profitable well path The book delivers a valuable tool that will keep reservoir engineers up to speed in this fast paced sector of the oil and gas market Stay competitive with new content on unconventional reservoir simulation Get updated with new material on formation testing and flow simulation for complex well systems and paths Apply methods derived from real world case studies and calculation examples

Fundamentals and Practical Aspects of Gas Injection Reza Azin, Amin Izadpanahi, 2021-07-28 This book covers different aspects of gas injection from the classic pressure maintenance operation to enhanced oil recovery EOR underground gas storage UGS and carbon capture and storage CCS The authors detail the unique characteristics and specific criteria of each application including material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples data and simulation codes are provided to enable the reader to gain an in depth understanding of these applications Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of reservoir engineering and enhanced oil recovery It will also be of interest to researchers academics and graduate students working in the field of petroleum engineering

Reservoir Engineering in Modern Oilfields Wilson C. Chin, 2016-08-11 Real world reservoirs are layered heterogeneous and anisotropic exposed to water and gas drives faults barriers and fractures They are produced by systems of vertical deviated horizontal and multilateral wells whose locations sizes shapes and topologies are dictated on the fly at random by petroleum engineers and drillers at well sites Wells may be pressure or rate constrained with these roles re assigned during simulation with older laterals shut in newer wells drilled and brought on stream and so on And all are subject to steady and transient production each satisfying different physical and mathematical laws making reservoir simulation an art difficult to master and introducing numerous barriers to entry All of these important processes can now be simulated in any order using rapid stable and accurate computational models developed over two decades And what if it were further possible to sketch complicated geologies and lithologies plus equally complex systems of general wells layer by layer using Windows Notepad And with no prior reservoir simulation experience and only passing exposure to reservoir engineering principles Have the user press Simulate and literally within minutes produce complicated field wide results production forecasts and detailed

three dimensional color pressure plots from integrated graphics algorithms Developed over years of research this possibility has become reality The author an M I T trained scientist who has authored fifteen original research books over a hundred papers and forty patents winner of a prestigious British Petroleum Chairman s Innovation Award in reservoir engineering and a record five awards from the United States Department of Energy has delivered just such a product making real time planning at the well site simple and practical Workflows developed from experience as a practicing reservoir engineer are incorporated into intelligent menus that make in depth understanding of simulation principles and readings of user manuals unnecessary This volume describes new technology for down to earth problems using numerous examples performed with our state of the art simulator one that is available separately at affordable cost and requiring only simple Intel Core i5 computers without specialized graphics boards The new methods are rigorous validated and well documented and are now available for broad petroleum industry application

A Practical Companion to Reservoir Stimulation M.J.

Economides,1992-01-03 This workbook is a practical companion to the second edition of the textbook Reservoir Stimulation The two books are intended to be used together This new volume should be particularly useful for the training of new engineers and petroleum engineering students as it contains approximately 100 problems and their solutions plus a lengthy chapter giving data necessary for designing a stimulation treatment Chapters are included containing practical problems on reservoir and well considerations rock mechanics fracturing fluids and proppants fracture calibration treatments design and modeling of propped fractures evaluation of fracture treatments design of matrix treatments diversion and treatment evaluation design and performance of acid fractures and stimulation of horizontal wells These chapters are labeled with letters from A to J to distinguish them from their companion chapters in Reservoir Stimulation Equations figures and tables from the textbook are referred to in the workbook but are not reproduced

Applied Geothermics for Petroleum

Engineers I.M. Kutasov,1999-05-24 The purpose of Applied Geothermics for Petroleum Engineers is to present in a clear and concise form methods of utilizing the data of temperature surveys in deep boreholes as well as the results of field laboratory and analytical investigations in geothermics to a wide audience Although some aspects of the subject of this book have been discussed in several previous books and numerous papers Applied Geothermics for Petroleum Engineers is the first book on this topic available to the petroleum engineering community The objective of the book is to present the state of knowledge and prediction of downhole and formations temperatures during well drilling well completion shut in and production Applied Geothermics for Petroleum Engineers is intended for drilling engineers impact of elevated temperatures on well drilling and completion technology Arctic drilling production engineers temperature regime of production injection and geothermal wells Arctic production reservoir engineers temperature field of reservoirs thermal properties of formations and formation fluids well logging engineers interpretation of electrical resistance mud density and temperature logs and geophysicists and geologists interpretation of geophysical data calculation of the terrestrial heat flow reconstruction of past climates

Carbonate Reservoirs Clyde H. Moore, William J. Wade, 2013-08-12 Carbonate reservoirs are prone to natural fracturing. Fractures can act as enhanced permeability pathways which may increase or decrease or complicate reservoir production and development. Healed fractures contribute to reservoir compartmentalization. A primary focus is placed upon the predictability of fracture set patterns and orientations which vary according to carbonate lithofacies and the stress fields under which different types of fractures form. Extension fractures can form at the surface or at reservoir depths. Certain types of extension fracture sets e.g. syndepositional regional and to a lesser extent karst related fracture sets exhibit predictable patterns and orientations with respect to the stress field under which they originated. Surface outcrops commonly exhibit multiple fracture sets; these are most frequently related to relaxation of compaction and/or thermal cooling. Such fracture sets are considered unlikely to resemble fracture sets in nearby reservoirs at depth; therefore the use of surface fracture patterns as analogs for same formation reservoirs without comparative analysis of burial stress histories is risky. Fault related fractures have very high permeability potentials when newly formed but their resulting role as fluid conduits typically leads to rapid healing and therefore a higher likelihood of causing reservoir compartmentalization. These fractures typically cut across multiple beds. Fold related fracture patterns are complex, typically consisting of both extension and conjugate shear pair fractures and show variable orientations in space and/or over time. However they tend to follow the geometries of individual beds and are often confined to single beds rather than aligning according to overall structural axes. Ekofisk Field, a naturally fractured North Sea chalk reservoir, is presented as an illustrative case of fold related fracture abundance and effectiveness in enhancing fieldwide permeability parameters without the drawback of creating major production problems during waterflooding.

Processes in GeoMedia—Volume VI Tatiana Chaplina, 2023-01-01 The sixth volume of *Processes in GeoMedia* connected to the Russian journal with the same name publishes new results of theoretical and experimental studies of the processes occurring in the bowels of the earth, the ocean and the atmosphere. Particular attention is paid to geomechanical aspects of the production of hydrocarbons including laboriously extracted oils and to the ecological problems of the biosphere, the human impact on the environment. Methods of geophysical research are within the range of the journal interests.

Proceedings of the International Field Exploration and Development Conference 2021 Jia'en Lin, 2022-09-07 This book focuses on reservoir surveillance and management, reservoir evaluation and dynamic description, reservoir production stimulation and EOR, ultra-tight reservoir, unconventional oil and gas resources technology, oil and gas well production testing and geomechanics. This book is a compilation of selected papers from the 11th International Field Exploration and Development Conference IFEDC 2021. The conference not only provides a platform to exchange experience but also promotes the development of scientific research in oil and gas exploration and production. The main audience for the work includes reservoir engineer, geological engineer, enterprise managers, senior engineers as well as professional students.

Geological Well Logs S. Luthi, 2013-03-14 When I joined Schlumberger in 1982 I was surprised to find very few

geologists in the company and the few there were worked more as log analysts than geologists. The reason for this became soon clear to me. Except for the dipmeter there was no tool and no other service that was considered geological. Schlumberger geologists were supposed to work with dipmeters and if they had a taste for it the natural gamma ray spectroscopy logs. It turned out that my timing was fortunate. At Schlumberger's research center in Ridgefield, Connecticut, a prototype electrical imaging tool had been designed and after having spent three years in the Middle East I was transferred there. The first field test results were just coming in and the images were startling. We could see geological details that nobody had ever seen from a log: cross beds, unconformities, pebbles, fractures, folds, faults. No cores were needed to confirm the reality of these data; they were too real to be artifacts.

Proceedings of the International Field Exploration and Development Conference 2023 Jia'en Lin, 2024-03-18. This book focuses on reservoir surveillance and management, reservoir evaluation and dynamic description, reservoir production stimulation and EOR, ultra-tight reservoir, unconventional oil and gas resources technology, oil and gas well production testing and geomechanics. This book is a compilation of selected papers from the 13th International Field Exploration and Development Conference (IFEDC 2023). The conference not only provides a platform to exchange experience but also promotes the development of scientific research in oil and gas exploration and production. The main audience for the work includes reservoir engineer, geological engineer, enterprise managers, senior engineers as well as students.

PVT and Phase Behaviour Of Petroleum Reservoir Fluids Ali Danesh, 1998-05-07. This book on PVT and Phase Behaviour Of Petroleum Reservoir Fluids is volume 47 in the Developments in Petroleum Science series. The chapters in the book are: Phase Behaviour Fundamentals, PVT Tests and Correlations, Phase Equilibria, Equations of State, Phase Behaviour Calculations, Fluid Characterisation, Gas Injection, Interfacial Tension and Application in Reservoir Simulation. Petroleum Related Rock Mechanics E. Fjær, Per Horsrud, Arne Marius Raaen, R. Risnes, Rune Martin Holt, 1992-01-03. This long-awaited volume written specifically for petroleum workers explores the fundamental concepts of rock mechanics along with various petroleum-related applications. Emphasis is placed on the weak sedimentary rocks which normally fall between traditional rock mechanics and soil mechanics. Elasticity, failure mechanics, acoustic wave propagation and geological aspects of rock materials are all detailed. Application areas discussed include stability during drilling, sand production, fracturing and reservoir compaction. Methods for acquisition of data from field and laboratory analyses are also described. Engineers and geologists in the petroleum industry will find this book a powerful resource in providing a basis of rock mechanical knowledge, a knowledge which can greatly assist in the understanding of field behaviour, design of test programmes and the design of field operations.

Fractures and Fracture Networks P.M. Adler, J.-F. Thovert, 2013-03-09. Both the beauty and interest of fractures and fracture networks are easy to grasp since they are abundant in nature. An example is the road from Digne to Nice in the south of France with an impressive number and variety of such structures; the road for the most part goes through narrow valleys with fast running streams penetrating the rock faces; erosion is favored by the Mediterranean

climate so that rocks are barely covered by meager vegetation In this inhospitable and sterile landscape the visitor can immediately discover innumerable fractures in great masses which have been distorted by slow yet powerful movements This phenomenon can be seen for about 100 kilometers all kinds of shapes and combinations are represented and can be observed either in the mountain itself or in the man made cliffs and excavations resulting from improvements made to the road In the same region close to the Turini Pass a real large scale hydrodynamic experiment is taking place a source which is situated on the flank on the mountain has been equipped with a tap if the tap is open water flows through the tap only but when it is closed then the side of the mountain releases water in a matter of seconds Other outlets are also influenced by this tap such as a water basin situated a few hundred meters away

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