

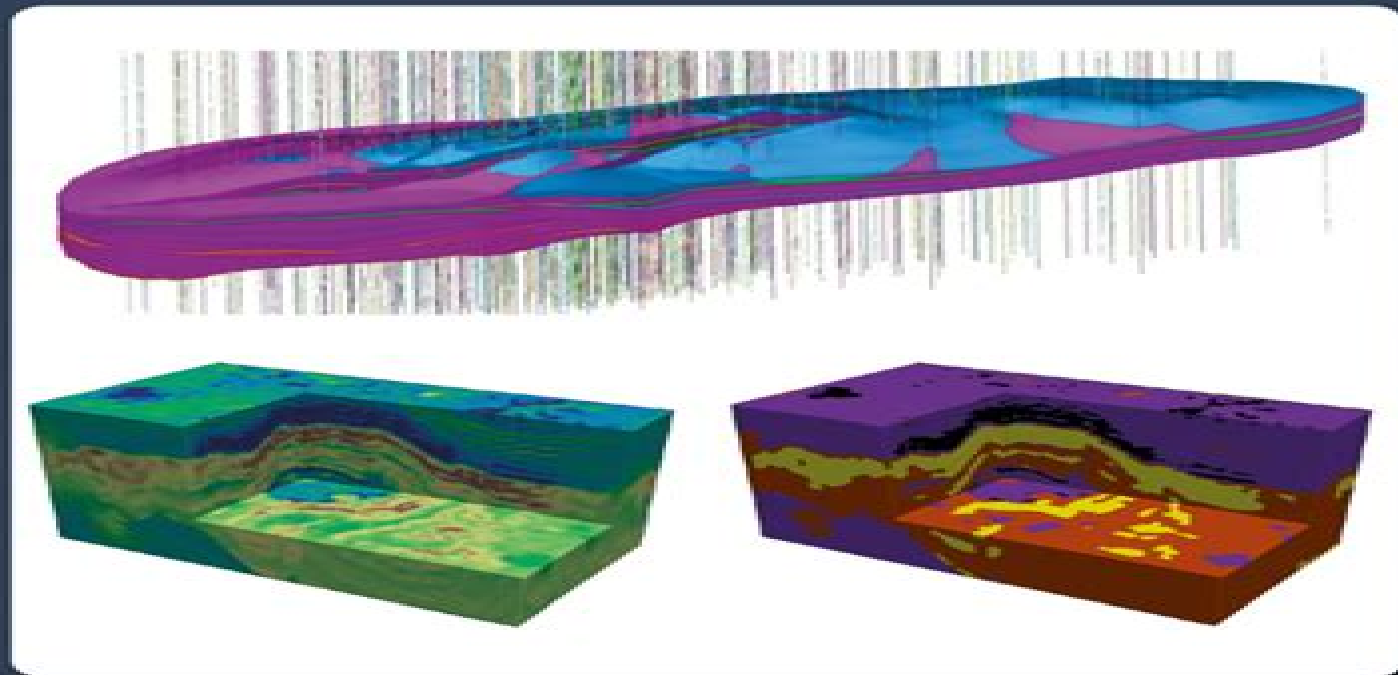
**DEVELOPMENTS IN STRUCTURAL
GEOLOGY AND TECTONICS**

6

RESERVOIR CHARACTERIZATION, MODELING, AND QUANTITATIVE INTERPRETATION:

RECENT WORKFLOWS TO EMERGING TECHNOLOGIES

EDITED BY SHIB SANKAR GANGULI AND VIJAY PRASAD DIMRI



Development Of Reservoir Characterization Techniques And

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Development Of Reservoir Characterization Techniques And:

Applied Techniques to Integrated Oil and Gas Reservoir Characterization Enwenode Onajite, 2021-04-09 Over the past several years there has been a growing integration of data geophysical geological petrophysical engineering related and production related in predicting and determining reservoir properties As such geoscientists now must learn the technology processes and challenges involved within their specific functions in order to optimize planning for oil field development Applied Techniques to Integrated Oil and Gas Reservoir Characterization presents challenging questions encountered by geoscientists in their day to day work in the exploration and development of oil and gas fields and provides potential solutions from experts From basin analysis of conventional and unconventional reservoirs to seismic attributes analysis NMR for reservoir characterization amplitude versus offset AVO well to seismic tie seismic inversion studies rock physics pore pressure prediction and 4D for reservoir monitoring the text examines challenges in the industry as well as the techniques used to overcome those challenges This book includes valuable contributions from global industry experts Brian Schulte Schiefer Reservoir Consulting Dr Neil W Craigie Saudi Aramco Matthijs van der Molen Shell International E P Dr Fred W Schroeder ExxonMobil retired Dr Tharwat Hassane Schlumberger BP retired and others Presents a thorough understanding of the requirements of various disciplines in characterizing a wide spectrum of reservoirs Includes real life problems and challenging questions encountered by geoscientists in their day to day work along with answers from experts working in the field Provides an integrated approach among different disciplines geology geophysics petrophysics and petroleum engineering Offers advice from industry experts to geoscience students including career guides and interview tips

Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers Roger M.

Slatt, 2013-11-21 Reservoir characterization as a discipline grew out of the recognition that more oil and gas could be extracted from reservoirs if the geology of the reservoir was understood Prior to that awakening reservoir development and production were the realm of the petroleum engineer In fact geologists of that time would have felt slighted if asked by corporate management to move from an exciting exploration assignment to a more mundane assignment working with an engineer to improve a reservoir's performance Slowly reservoir characterization came into its own as a quantitative multidisciplinary endeavor requiring a vast array of skills and knowledge sets Perhaps the biggest attractor to becoming a reservoir geologist was the advent of fast computing followed by visualization programs and theaters all of which allow young geoscientists to practice their computing skills in a highly technical work environment Also the discipline grew in parallel with the evolution of data integration and the advent of asset teams in the petroleum industry Finally reservoir characterization flourished with the quantum improvements that have occurred in geophysical acquisition and processing techniques and that allow geophysicists to image internal reservoir complexities Practical resource describing different types of sandstone and shale reservoirs Case histories of reservoir studies for easy comparison Applications of standard new and

emerging technologies *DEVELOPMENT OF RESERVOIR CHARACTERIZATION TECHNIQUES AND PRODUCTION MODELS FOR EXPLOITING NATURALLY FRACTURED RESERVOIRS.* ,2002 For many years geoscientists and engineers have undertaken research to characterize naturally fractured reservoirs Geoscientists have focused on understanding the process of fracturing and the subsequent measurement and description of fracture characteristics Engineers have concentrated on the fluid flow behavior in the fracture porous media system and the development of models to predict the hydrocarbon production from these complex systems This research attempts to integrate these two complementary views to develop a quantitative reservoir characterization methodology and flow performance model for naturally fractured reservoirs The research has focused on estimating naturally fractured reservoir properties from seismic data predicting fracture characteristics from well logs and developing a naturally fractured reservoir simulator It is important to develop techniques that can be applied to estimate the important parameters in predicting the performance of naturally fractured reservoirs This project proposes a method to relate seismic properties to the elastic compliance and permeability of the reservoir based upon a sugar cube model In addition methods are presented to use conventional well logs to estimate localized fracture information for reservoir characterization purposes The ability to estimate fracture information from conventional well logs is very important in older wells where data are often limited Finally a desktop naturally fractured reservoir simulator has been developed for the purpose of predicting the performance of these complex reservoirs The simulator incorporates vertical and horizontal wellbore models methods to handle matrix to fracture fluid transfer and fracture permeability tensors This research project has developed methods to characterize and study the performance of naturally fractured reservoirs that integrate geoscience and engineering data This is an important step in developing exploitation strategies for optimizing the recovery from naturally fractured reservoir systems The next logical extension of this work is to apply the proposed methods to an actual field case study to provide information for verification and modification of the techniques and simulator This report provides the details of the proposed techniques and summarizes the activities undertaken during the course of this project Technology transfer activities were highlighted by a two day technical conference held in Oklahoma City in June 2002 This conference attracted over 90 participants and included the presentation of seventeen technical papers from researchers throughout the United States **Development Theories and Methods of Fracture-Vug Carbonate Reservoirs** Yang Li,2017-05-17 Development Theories and Methods of Fracture Vug Carbonate Reservoirs explores the theories and methods for successful development of a fracture vug reservoir by presenting the developmental strategies used in the Tahe oilfield Some of the theories and methods of developing the Tahe fracture vug reservoirs have been inspired by two China national research projects The Basic research on development of fracture vug carbonate reservoirs 2006 2010 and the Basic research on production mechanism and oil recovery enhancement of fracture vugcarbonate reservoirs 2011 2015 with support by the National Basic Research Program of China These theories and methods have facilitated the successful development of the

fracture vug reservoir in the Tahe oilfield providing effective technologies and inspirations to developing similar reservoirs everywhere Provides information on both theoretical developments and technological innovations Applies the modern karst formation characterization and the fracture vug hierarchical structure to geological investigations of fracture vug carbonate reservoirs Introduces the karst facies controlling 3D geologic modeling of fracture vug reservoir formations Proposes the coupled processing and equivalent multi medium numerical simulation methods of fracture vug reservoirs Presents development methodologies and techniques of water gas flooding

Soft Computing for Reservoir Characterization and Modeling Patrick Wong,Fred Aminzadeh,Masoud Nikraves,2013-11-11 In the middle of the 20th century Genrich Altshuller a Russian engineer analysed hundreds of thousands of patents and scientific publications From this analysis he developed TRIZ G Altshuller 40 Principles TRIZ Keys to Technical Innovation TRIZ Tools Volume 1 First Edition Technical Innovation Center Inc Worcester MA January 1998 Y Salamatov TRIZ The Right Solution at the Right Time A Guide to Innovative Problem Solving Insytex B V 1999 the theory of inventive problem solving together with a series of practical tools for helping engineers solving technical problems Among these tools and theories the substance field theory gives a structured way of representing problems the patterns of evolution show the lifecycle of technical systems the contradiction matrix tells you how to resolve technical contradictions using the forty principles that describe common ways of improving technical systems For example if you want to increase the strength of a device without adding too much extra weight to it the contradiction matrix tells you that you can use Principle 1 Segmentation or Principle 8 Counterweight or Principle 15 Dynamicity or Principle 40 Composite Materials I really like two particular ones Principle 1 Segmentation and Principle 15 Dynamicity Segmentation shows how systems evolve from an initial monolithic form into a set of independent parts then eventually increasing the number of parts until each part becomes small enough that it cannot be identified anymore

Dynamic Description Technology of Fractured Vuggy Carbonate Gas Reservoirs Hedong Sun,Tongwen Jiang,Xingliang Deng,2019-04-12 Dynamic Description Technology of Fractured Vuggy Carbonate Gas Reservoirs delivers a critical reference to reservoir and production engineers on the basic characteristics of fractured vuggy gas reservoirs combining both static and dynamic data to improve reservoir characterization accuracy and development Based on the full lifecycle of well testing and advanced production decline analysis this reference also details how to apply reservoir dynamic evaluation and reserve estimation and performance forecasting Offering one collective location for the latest research on fractured gas reservoirs this reference also covers physical models analysis examples and processes 3D numerical well test technology and deconvolution technology of production decline analysis Packed with many calculation examples and more than 100 case studies this book gives engineers a strong tool to further exploit these complex assets

Unconventional Reservoir Rate-Transient Analysis Christopher R. Clarkson,2021-06-15 Unconventional Reservoir Rate Transient Analysis provides petroleum engineers and geoscientists with the first comprehensive review of rate transient analysis RTA methods as applied to

unconventional reservoirs Volume One Fundamentals Analysis Methods and Workflow is comprised of five chapters which address key concepts and analysis methods used in RTA This volume overviews the fundamentals of RTA as applied to low permeability oil and gas reservoirs exhibiting simple reservoir and fluid characteristics Volume Two Application to Complex Reservoirs Exploration and Development is comprised of four chapters that demonstrate how RTA can be applied to coalbed methane reservoirs shale gas reservoirs and low permeability shale reservoirs exhibiting complex behavior such as multiphase flow Use of RTA to assist exploration and development programs in unconventional reservoirs is also demonstrated This book will serve as a critical guide for students academics and industry professionals interested in applying RTA methods to unconventional reservoirs Gain a comprehensive review of key concepts and analysis methods used in modern rate transient analysis RTA as applied to low permeability tight oil and gas reservoirs Improve your RTA methods by providing reservoir hydraulic fracture properties and hydrocarbon in place estimates for unconventional gas and light oil reservoirs exhibiting complex reservoir behaviors Understand the provision of a workflow for confident application of RTA to unconventional reservoirs

Volcanic Gas Reservoir Characterization Qiquan Ran,Yongjun Wang,Yuanhui Sun,Lin Yan,Min Tong,2014-03-27 Volcanic gas reservoirs are the new natural gas frontier Once thought too complex too harsh on the drilling bit and too difficult to characterize reservoir engineers and petroleum geologists alike now manage more advanced seismic and logging tools making these impossible field developments possible Bridging meaningful information about these complicated provinces and linking various unconventional methods and techniques Volcanic Gas Reservoir Characterization Describes a set of leading edge integrated volcanic gas reservoir characterization techniques helping to ensure the effective development of the field Reveals the grade and relationship of volcanic stratigraphic sequence Presents field identification and prediction methods and interpretation technology of reservoir parameters relating these to similar complex fields such as shale These innovative approaches and creative methods have been successfully applied to actual development of volcanic gas reservoirs By sharing the methods and techniques used in this region with reservoir engineers and petroleum geologists all over the world those with better understanding of these unconventional basins will begin to consider volcanic rock like any other reservoir Summarizes the research and explains detailed case studies of volcanic gas reservoir developments showing the latest achievements and lessons learned Supplies knowledge on volcanic gas reservoir basins to provide meaningful insight into similar complex reservoirs such as shale coal bed methane and heavy oil basins Contains extensive methodology strong practicality and high innovation making this an ideal book for both the practicing and seasoned reservoir engineer and petroleum geologists working with complex reservoirs

Methods and Applications in Reservoir Geophysics David H. Johnston,Michael R. Cooper,2010 Methods and Applications in Reservoir Geophysics SEG Investigations in Geophysics No 15 not only demonstrates the value of geophysics in reservoir management but also shows how to apply geophysical technologies more effectively in reservoir studies The chapter editors have selected more than 40

papers from SEG and other journals and have added 13 new contributions In the reservoir engineering tutorial geophysicists will discover a rich source of information on issues and data that are critically important to the engineer In the geophysics tutorial the engineer and the geophysicist will find explanations of the tools and data discussed in the book s case studies Each chapter then focuses on a different phase of field life exploration appraisal development planning and production optimization Geophysics is used in each of those stages to help address the critical technical issues and business decisions that the reservoir management team faces The case studies demonstrate the processes methods and techniques used in reservoir geophysics not simply the results The last chapter explores the road ahead and emerging technologies that define the future of reservoir geophysics This book will be valuable for geophysicists engineers and all members of the reservoir management team who want to ensure that the correct data are used to maximize reserves optimize recovery and contain costs

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

Development of Volcanic Gas Reservoirs Qiquan Ran,Dong Ren,Yongjun Wang,2018-09-29 Development of Volcanic Gas Reservoirs The Theory Key Technologies and Practice of Hydrocarbon Development introduces the geological and dynamic characteristics of development in volcanic gas reservoirs using examples drawn from the practical experience in China of honing volcanic gas reservoir development The book gives guidance on how to effectively develop volcanic gas reservoirs and similar complex types of gas reservoir It introduces basic theories key technologies and uses practical examples It is the first book to systematically cover the theories and key technologies of volcanic gas reservoir development As volcanic gas reservoirs constitute a new research area the distribution and rules for development still being studied Difficulties in well deployment and supportive development technology engender further challenges to development However in the past decade research and development in the Songliao and

Junggar Basins has led to marked achievements in volcanic gas reservoir development Introduces the theory key technologies and practice of volcanic gas reservoir development Provides links between theory and practice highlighting key technologies for targeted development Offers guidance on complex issues in volcanic gas reservoir development Presents practical evidence from effective development and exploitation of gas reservoirs

Unconventional Reservoirs: Rate and Pressure Transient Analysis Techniques Amin Taghavinejad,Mehdi Ostadhassan,Reza Daneshfar,2021-09-13 This book provides a succinct overview on the application of rate and pressure transient analysis in unconventional petroleum reservoirs It begins by introducing unconventional reservoirs including production challenges and continues to explore the potential benefits of rate and pressure analysis methods Rate transient analysis RTA and pressure transient analysis PTA are techniques for evaluating petroleum reservoir properties such as permeability original hydrocarbon in place and hydrocarbon recovery using dynamic data The brief introduces describes and classifies both techniques focusing on the application to shale and tight reservoirs Authors have used illustrations schematic views and mathematical formulations and code programs to clearly explain application of RTA and PTA in complex petroleum systems This brief is of an interest to academics reservoir engineers and graduate students

Proceedings of the International Field Exploration and Development Conference 2023 Jia'en Lin,2024-03-15 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 exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as students

Fundamentals of Gas Shale Reservoirs Reza Rezaee,2015-07-01 Provides comprehensive information about the key exploration development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis rock physics geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations

Journal of the House of Representatives of the United States United States. Congress. House,2012 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

Department of the Interior and Related Agencies Appropriations for 1997: Justification of the budget estimates: Minerals Management Service United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related

Agencies,1996 *Inventory of Advanced Energy Technologies and Energy Conservation Research and Development, 1976-1978* Oak Ridge National Laboratory,1979 *Practical Solutions to Integrated Oil and Gas Reservoir Analysis* Enwenode Onajite,2017-05-19 *Practical Solutions to Integrated Oil and Gas Reservoir Analysis* Geophysical and Geological Perspectives is a well timed source of information addressing the growing integration of geophysical geological reservoir engineering production and petrophysical data in predicting and determining reservoir properties These include reservoir extent and sand development away from the well bore characterizations of undrilled prospects and optimization planning for field development As such geoscientists must now learn the technology processes and challenges involved within their specific functions in order to complete day to day activities A broad collection of real life problems and challenging questions encountered by geoscientists in the exploration and development of oil and gas fields the book treats subjects ranging from Basin Analysis to identifying and mapping structures stratigraphy the distribution of fracture and the identification of pore fluids Looking at the well to seismic tie time to depth conversion AVO analysis seismic inversion rock physics and pore pressure analysis prediction the text examines challenges encountered in these technical areas and also includes solutions and techniques used to overcome those challenges Presents a thorough understanding of the contributions and issues faced by the various disciplines that contribute towards characterizing a wide spectrum of reservoirs Conventional Shale Oil and Gas as well as Carbonate reservoirs Provides a much needed and integrated approach amongst disciplines including geology geophysics petrophysics reservoir and drilling engineering Includes case studies on different reservoir settings from around the world including Western Canadian Sedimentary Basin Gulf of Guinea Gulf of Mexico Milne point field in Alaska North Sea San Jorge Basin and Bossier and Haynesville Shales and others to help illustrate key points Advanced methods of mathematical modeling and experimental study in oil and gas reservoirs Fuyong Wang,Bassem Nabawy,Evgeny Burnaev,Xiukun Wang,Debin Kong,2023-07-05 **Advances in Data, Methods, Models and Their Applications in Geoscience** DongMei Chen,2011-12-22 With growing attention on global environmental and climate change geoscience has experienced rapid change and development in the last three decades Many new data methods and modeling techniques have been developed and applied in various aspects of geoscience The chapters collected in this book present an excellent profile of the current state of various data analysis methods and modeling techniques and demonstrate their applications from hydrology geology and paleogeomorphology to geophysics environmental and climate change The wide range methods and techniques covered in the book include information systems and technology global position system GPS digital sediment core image analysis fuzzy set theory for hydrology spatial interpolation spectral analysis of geophysical data GIS based hydrological models high resolution geological models 3D sedimentology change detection from remote sensing etc Besides two comprehensive review articles most chapters focus on in depth studies of a particular method or technique

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