

Unconventional Gas Reservoirs Evaluation Appraisal And Development

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 Reservoir Engineering of Conventional and Unconventional Petroleum Resources
 Advanced Production Decline Analysis and Application
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[Global Energy Assessment](#) AAPG

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Natural gas, particularly shale gas, is one of the main sustainable energy sources in the current century. It is an abundant energy resource, playing an active role in future energy demand and enabling nations to transition to higher support on renewable energy sources. The book aims to add some contributions and new advances in technologies and prospects on shale gas reserves in selected regions of the world, in terms of new technologies of extraction, new discoveries of promising reserves, synthesis and applications to get high quality of this cleanest consuming non-renewable energy source.

[Sustainable Geoscience for Natural Gas SubSurface Systems](#) Elsevier

As the shale revolution continues in North America, unconventional resource markets are emerging on every continent. In the next eight to ten years, more than 100,000 wells and one- to two-million hydraulic fracturing stages could be executed, resulting in close to one trillion dollars in industry spending. This growth has prompted professionals experienced in conventional oil and gas exploitation and development to acquire practical knowledge of the unconventional realm.

[Unconventional Oil and Gas Resources: Exploitation and Development](#) provides a comprehensive understanding of the latest advances in the exploitation and development of unconventional resources. With an emphasis on shale, this book: Addresses all aspects of the exploitation and development process, from data mining and accounting to drilling, completion, stimulation, production, and environmental issues Offers in-depth coverage of sub-surface measurements (geological, geophysical, petrophysical, geochemical, and geomechanical) and their interpretation Discusses the use of microseismic, fiber optic, and tracer reservoir monitoring technologies and JewelSuite™ reservoir modeling software Presents the viewpoints of internationally respected experts and researchers from leading exploration and production (E&P) companies and academic institutions Explores future trends in reservoir technologies for unconventional resources development [Unconventional Oil and Gas Resources: Exploitation and Development](#) aids geologists, geophysicists, petrophysicists, geomechanic specialists, and drilling, completion, stimulation, production, and reservoir engineers in the environmentally safe exploitation and development of unconventional resources like shale.

[Reservoir Engineering of Conventional and Unconventional Petroleum Resources](#) Cambridge University Press

[Sustainable Oil and Gas Development Series: Reservoir Development](#) delivers research materials and emerging technologies that conform sustainability in today's reservoirs. Starting with a status of technologies available, the reference describes sustainability as it applies to fracturing fluids, particularly within unconventional reservoirs. Basement reservoirs are discussed along with non-energy applications of fluids. Sustainability considerations for reserve predication are covered followed by risk analysis and scaling guidelines for further field development. Rounding out with conclusions and remaining challenges, [Sustainable Oil and Gas Development Series: Reservoir Development](#) gives today and future petroleum engineers a focused and balanced path to strengthen sustainability practices. Gain insight to more environmentally-friendly protocols for both unconventional and basement reservoirs, including non-energy applications of reservoir fluids Determine more accurate reserves and keep budgets in line while focusing on emission reduction Learn from a well-known author with extensive experience in both academia and industry [Advanced Production Decline Analysis and Application](#) GRIN Verlag

[Unconventional Oil and Gas Resources Handbook: Evaluation and Development](#) is a must-have, helpful handbook that brings a wealth of information to engineers and geoscientists. Bridging between subsurface and production, the handbook provides engineers and geoscientists with effective methodology to better define resources and reservoirs. Better reservoir knowledge and innovative technologies are making unconventional resources economically possible, and multidisciplinary approaches in evaluating these resources are critical to successful development. [Unconventional Oil and Gas Resources Handbook](#) takes this approach, covering a wide range of topics for developing these resources including exploration, evaluation, drilling, completion, and production. Topics include theory, methodology, and case histories and will help to improve the understanding, integrated evaluation, and effective development of unconventional resources. Presents methods for a full development cycle of unconventional resources, from exploration through production Explores multidisciplinary integrations for evaluation and development of unconventional resources and covers a broad range of reservoir characterization methods and development scenarios Delivers balanced information with multiple contributors from both academia and industry Provides case histories involving geological analysis, geomechanical analysis, reservoir modeling, hydraulic fracturing treatment, microseismic monitoring, well performance and refracturing for development of unconventional reservoirs

[Unconventional Gas Reservoirs](#) Cambridge University Press

When the U.S. Department of the Interior released its 1989 estimates of how much undiscovered oil and gas remain in the United States, a controversy ensued. Some members of the petroleum industry charged that the estimates were too low. This book evaluates the scientific credibility of the statistical and geological methods underlying the estimates.

[Hydraulic Fracturing and Other Recovery and Assessment Techniques](#) Gulf Professional Publishing This book explains the drivers and implications of unconventional gas at regional, national and global scales with case studies and in-depth analyses.

[A scientific assessment of the environmental risks from hydraulic fracturing and fossil fuels](#) Gulf Professional Publishing

The stimulation of unconventional hydrocarbon reservoirs is proven to improve their productivity to an extent that has rendered them economically viable. Generally, the stimulation design is a complex process dependent on intertwining factors such as the history of the formation, rock and reservoir fluid type, lithology and structural layout of the formation, cost, time, etc. A holistic grasp of these can be daunting, especially for people without sufficient experience and/or expertise in the exploitation of unconventional hydrocarbon reserves. This book presents the key facets integral to producing unconventional resources, and how the different components, if pieced together, can be used to create an integrated stimulation design. Areas covered are as follows: • stimulation methods, • fracturing fluids, • mixing and behavior of reservoir fluids, • assessment of reservoir performance, • integration of surface drilling data, • estimation of geomechanical properties and hydrocarbon saturation, and • health and safety. [Exploitation of Unconventional Oil and Gas Resources: Hydraulic Fracturing and Other Recovery and Assessment Techniques](#) is an excellent introduction to the subject area of unconventional oil and gas reservoirs, but it also complements existing information in the same discipline. It is an essential text for higher education students and professionals in academia, research, and the industry.

[Appraisal, Economics and Optimization](#) Unconventional Gas Reservoirs Evaluation, Appraisal, and Development

In recent years, production decline-curve analysis has become the most widely used tool in the industry for oil and gas reservoir production analysis. However, most curve analysis is done by computer today, promoting a "black-box" approach to engineering and leaving engineers with little background in the fundamentals of decline analysis. [Advanced Production Decline Analysis and Application](#) starts from the basic concept of advanced production decline analysis, and thoroughly

discusses several decline methods, such as Arps, Fetkovich, Blasingame, Agarwal-Gardner, NPI, transient, long linear flow, and FMB. A practical systematic introduction to each method helps the reservoir engineer understand the physical and mathematical models, solve the type curves and match up analysis, analyze the processes and examples, and reconstruct all the examples by hand, giving way to master the fundamentals behind the software. An appendix explains the nomenclature and major equations, and as an added bonus, online computer programs are available for download. Understand the most comprehensive and current list of decline methods, including Arps, Fetkovich, Blasingame, and Agarwal-Gardner Gain expert knowledge with principles, processes, real-world cases and field examples Includes online downloadable computer programs on Blasingame decline type curves and normalized pseudo-pressure of gas wells

Fundamentals of Gas Shale Reservoirs CRC Press

Master's Thesis from the year 2010 in the subject Energy Sciences, grade: 1.3, University of Munster (University of Muenster & RWTH Aachen University), course: Energy Economics, language: English, abstract: The European natural gas market is characterized by declining indigenous production rates of conventional gas in combination with growing consumption rates across all sectors, which both result in concerns about the future dependence on natural gas imports. The production of unconventional gas has revolutionized the natural gas market in the USA because significant contributions to the indigenous supply of natural gas have been achieved and thus, lowered their import dependence. This thesis results from the need to determine the potential of unconventional gas resources in Europe under consideration of opportunities, in terms of economic impacts and benefits to the energy security, as well as challenges that arise from technological and environmental aspects. For this purpose, a roadmap for the future unconventional gas industry in Europe is developed, which prospects different stages of an anticipated development path. An assessment of the global distribution of unconventional gas resources is presented on the basis of introducing the natural gas resource triangle concept. Following a quantification of the entire unconventional gas resource base, the importance of natural gas from a global perspective, and subsequently from a European perspective, is analyzed. This comprehensive approach provides the overall picture of the European natural gas market until 2015 and 2030, respectively. Hereby, forecasts of the unconventional gas production rates in Europe are essentially included. The results indicate that the sole consideration of the unconventional gas resource base in Europe does not lead to significant changes in the future indigenous natural gas supply portfolio. But, local economies in Europe benefit from several economic impacts that are accompanied by a

Unconventional Oil and Gas Resources Gulf Professional Publishing

This timely book begins with an overview of shale gas reservoir features such as natural fracture systems, multi-fractured horizontal wells, adsorption/desorption of methane, and non-linear flow within the reservoir. Geomechanical modelling, an aspect of importance in ultra-low permeability reservoirs, is also presented in detail. Taking these complex features of shale reservoirs into account, the authors develop a numerical model, which is verified with field data using the history matching technique. Based on this model, the pressure transient and production characteristics of a fractured horizontal well in a shale gas reservoir are analysed with respect to reservoir and fracture properties. Methods for the estimation of shale properties are also detailed. Minifrac tests, rate transient tests (RTA), and type curve matching are used to estimate the initial pressure, permeability, and fracture half-length. Lastly, future technologies such as the technique of injecting CO₂ into shale reservoirs are presented. The book will be of interest to industrial practitioners, as well as to academics and graduate students in the field of reservoir engineering.

Unconventional Reservoir Geomechanics John Wiley & Sons

Reservoir Formation Damage, Third Edition, provides the latest information on the economic problems that can occur during various phases of oil and gas recovery from subsurface reservoirs, including production, drilling, hydraulic fracturing, and workover operations. The text helps readers better understand the processes causing formation damage and the factors that can lead to reduced flow efficiency in near-wellbore formation during the various phases of oil and gas production. The third edition in the series provides the most all-encompassing volume to date, adding new material on conformance and water control, hydraulic fracturing, special procedures for unconventional reservoirs, field applications design, and cost assessment for damage control measures and strategies. Understand relevant formation damage processes by laboratory and field testing Develop theories and mathematical expressions for description of the fundamental mechanisms and processes Predict and simulate the consequences and scenarios of the various types of formation damage processes encountered in petroleum reservoirs Develop methodologies and optimal strategies for formation damage control and remediation

Recovery Performance Assessment of Unconventional Oil and Gas Reservoirs with the Effect of Capillary Pressure on Phase Behavior Gulf Professional Publishing

Natural gas, especially unconventional gas, has an increasingly important role in meeting the world's energy needs. Experts estimate that it has the potential to add anywhere from 60-250% to the global proven gas reserve in the next two decades. To maintain pace with increasing global demand, Unconventional Gas Reservoirs provides the necessary bridge into the newer processes, approaches and designs to help identify these more uncommon reservoirs available and how to maximize its unconventional potential. Loaded with reservoir development and characterization strategies, this book will show you how to: Recognize the challenges and opportunities surrounding unconventional gas reservoirs Distinguish among the various types of unconventional reservoirs, such as shale gas, coalbed methane, and tight gas formations Drill down and quantify the reservoir's economic potential and other critical considerations Gain practical insights and tools to efficiently identify, appraise, and develop unconventional gas reservoirs Understand various techniques used to analyze reservoir parameters and performance as well as how they were applied to numerous real-world case studies Upgrade to the latest information on perspectives and insights with discussion of key differences used for today's unconventional gas characterization versus original conventional methods that failed in the past

Shale Reservoirs Gulf Professional Publishing

Fundamentals of Applied Reservoir Engineering introduces early career reservoir engineers and those in other oil and gas disciplines to the fundamentals of reservoir engineering. Given that modern reservoir engineering is largely centered on numerical computer simulation and that reservoir engineers in the industry will likely spend much of their professional career building and running such simulators, the book aims to encourage the use of simulated models in an appropriate way and exercising good engineering judgment to start the process for any field by using all available methods, both modern simulators and simple numerical models, to gain an understanding of the basic 'dynamics' of the reservoir -namely what are the major factors that will determine its performance. With the valuable addition of questions and exercises, including online spreadsheets to utilize day-to-day application and bring together the basics of reservoir engineering, coupled with petroleum economics and appraisal and development optimization, Fundamentals of Applied Reservoir Engineering will be an invaluable reference to the industry professional who wishes to understand how reservoirs fundamentally work and to how a reservoir engineer starts the performance process. Covers reservoir appraisal, economics, development planning, and

optimization to assist reservoir engineers in their decision-making. Provides appendices on enhanced oil recovery, gas well testing, basic fluid thermodynamics, and mathematical operators to enhance comprehension of the book's main topics. Offers online spreadsheets covering well test analysis, material balance, field aggregation and economic indicators to help today's engineer apply reservoir concepts to practical field data applications. Includes coverage on unconventional resources and heavy oil making it relevant for today's worldwide reservoir activity.

Risks, Rewards and Regulation of Unconventional Gas CRC Press

The need for energy is increasing and but the production from conventional reservoirs is declining quickly. This requires an economically and technically feasible source of energy for the coming years. Among some alternative future energy solutions, the most reasonable source is from unconventional reservoirs. As the name "unconventional" implies, different and challenging approaches are required to characterize and develop these resources. This Special Issue covers some of the technical challenges for developing unconventional energy sources from shale gas/oil, tight gas sand, and coalbed methane.

Unconventional Reservoir Rate-Transient Analysis Gulf Professional Publishing

Sustainable Geoscience for Natural Gas SubSurface Systems delivers many of the scientific fundamentals needed in the natural gas industry, including coal-seam gas reservoir characterization and fracture analysis modeling for shale and tight gas reservoirs. Advanced research includes machine learning applications for well log and facies analysis, 3D gas property geological modeling, and X-ray CT scanning to reduce environmental hazards. Supported by corporate and academic contributors, along with two well-distinguished editors, the book gives today's natural gas engineers both fundamentals and advances in a convenient resource, with a zero-carbon future in mind. Includes structured case studies to illustrate how new principles can be applied in practical situations Helps readers understand advanced topics, including machine learning applications to optimize predictions, controls and improve knowledge-based applications Provides tactics to accelerate emission reductions Teaches gas fracturing mechanics aimed at reducing environmental impacts, along with enhanced oil recovery technologies that capture carbon dioxide

Risk Management in the Oil and Gas Industry Elsevier

A comprehensive overview of the key geologic, geomechanical and engineering principles that govern the development of unconventional oil and gas reservoirs. Covering hydrocarbon-bearing formations, horizontal drilling, reservoir seismology and environmental impacts, this is an invaluable resource for geologists, geophysicists and reservoir engineers.

Gas Supply Through the Year 2000 : Summary National Academies Press

Risk Management in the Oil and Gas Industry: Offshore and Onshore Concepts and Case Studies delivers the concepts, strategies and good practices of offshore and onshore safety engineering that are applicable to petroleum engineering and immediately surrounding industries. Guided by the strategic risk management line, this reference organizes steps in order of importance and priority that should be given to the themes in the practical exercise of risk management activities, from the conceptual and design phase to operational and crisis management situations. Each chapter is packed with practical case studies, lessons learned, exercises, and review questions. The reference also touches on the newest techniques, including liquefied natural gas (cryogenics) operations and computer simulations that contemplate the influence of human behavior. Critical for both the new and experienced engineer, this book gives the best didactic tool to perform operations safely and effectively. Helps readers by presenting practical case studies and exercises that are included in every chapter Presents an understanding on how to approach and apply best practices specific to the oil and gas industry, both offshore and onshore Provides the knowledge needed to gain new techniques in computer simulation and human factors to apply to various sectors of the industry, including subsea and refineries

A Practitioner's Guide BoD - Books on Demand

Reservoir Engineering of Conventional and Unconventional Petroleum Resources is a practical guide and handbook for engineers and geoscientists. It is also a complete textbook for teaching of reservoir engineering courses with exercises in each chapter. The sources and applications of basic rock properties are presented. Prediction of PVT properties from correlations and equations of state, and laboratory measurements of same properties from fluid samples are discussed. These basic data are applied in material balance analyses, volumetric calculation of hydrocarbons-in-place and reserves, and analyses of reservoir performance using case histories. Production forecasts for conventional and unconventional reservoirs using Arps' decline equations in decline curve analyses (DCA) are presented. The applications of modified Arps' decline equations coupled with transient flow models in rate transient analyses (RTA) are illustrated. Dr. Ezekwe presents fundamental equations and methods for pressure transient analysis (PTA) for fractured and unfractured wells in conventional reservoirs. This is accompanied with well test analyses in unconventional reservoirs using diagnostic fracture injection tests (DFIT). Secondary recovery methods focused on waterflooding, gasflooding, and low salinity waterflooding are demonstrated. Enhanced oil recovery methods are discussed. Dr. Ezekwe recommends experience-based practical procedures for geologic modeling, reservoir characterization, reservoir simulation, and reservoir management. Fundamental economic decision criteria including profitability index, net present value, rate of return are demonstrated with examples. Reservoir Engineering of Conventional and Unconventional Petroleum Resources equips engineers with knowledge and skills on how to: Acquire basic rock and fluid properties Predict PVT properties for oil and gas reservoirs from correlations and equations of state Perform reserves evaluations for conventional & unconventional reservoirs using DCA methods Perform PTA and DFIT analyses for wells in conventional and unconventional reservoirs Conduct rate transient analyses (RTA) for unconventional reservoirs Implement waterflooding, gasflooding, and low salinity waterflooding projects Screen reservoirs for EOR processes and install field-wide EOR projects Build geologic models, reservoir models, and conduct reservoir simulation Develop and implement reservoir management strategies Perform economic evaluation of petroleum projects and resources. Build economic models of projects, fields, and resources

Potential and Implications for Energy Security Gulf Professional Publishing

This book provides a systematic scientific approach to the understanding of hydraulic fracturing (fracking) as a hydrocarbon extraction technology and its impact on the environment. The book addresses research from the past decade to assess how fracking can affect air, water, landscapes and ecosystems, and presents the subject in the context of the history of fracking and shale gas development in the United States, describing what is known and not known about environmental impacts, and the broader implications of fossil energy use, climate change, and technology development. In 9 chapters, the author lays out how and why hydraulic fracturing was developed, what driving forces existed at the beginning of the so-called "shale revolution", how success was achieved, and when and why public acceptance of the technology changed. The intended audience is scientific people who are concerned about fracking, but perhaps do not know all that much about it. It is also intended for lay people who would be interested in understanding the technical details of the process and what effects it might or might not be having on the environment. The book is written at a level that is both understandable and technically correct. A further goal is to give some useful insights even to experienced petroleum geologists and engineers who have been doing fracking for many years.

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