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Advanced Production Decline Analysis and Application

Hedong Sun



Advanced Production Decline Analysis And Application

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Advanced Production Decline Analysis And Application:

Advanced Production Decline Analysis and Application Hedong Sun, 2015-02-12 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.

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.

Production Technology for Deep Reservoirs Yan Peng, Yishan Liu, Hongyan Qu, Feng Dong, Jiehao Wang, 2024-11-28

Underground energy is important for the whole society development, but conventional underground energy is becoming exhausted. The energy for deep reservoirs, usually 3500m for petroleum engineering, 1000m for mining engineering, is diverse, including not limited to shale gas, oil, tight gas, oil, hot dry rock, geothermal reservoirs, and coal gasification. Although it has abundant reserves, the energy production from deep reservoirs is difficult in stimulations because the geological conditions for those deep reservoirs are tougher than those for conventional reservoirs, such as high in situ stress, obvious heterogeneity in rock properties, and complex natural fracture networks. Meanwhile, common technologies also have environmental impacts. The development trend of production technology for deep reservoirs requires it to be environment friendly or decrease

environmental impacts at least CO₂ utilization may achieve this environmental aim In order to efficiently produce energy from deep reservoirs technological innovation is booming around North America Europe and Asia

Proceedings of the International Field Exploration and Development Conference 2019 Jia'en Lin, 2020-07-11 This book gathers selected papers from the 8th International Field Exploration and Development Conference IFEDC 2019 and addresses a broad range of topics including Low Permeability Reservoir Unconventional Tight Shale Oil Reservoir Unconventional Heavy Oil and Coal Bed Gas Digital and Intelligent Oilfield Reservoir Dynamic Analysis Oil and Gas Reservoir Surveillance and Management Oil and Gas Reservoir Evaluation and Modeling Drilling and Production Operation Enhancement of Recovery Oil and Gas Reservoir Exploration The conference not only provided a platform to exchange experiences but also promoted the advancement of scientific research in oil gas exploration and production The book is chiefly intended for industry experts professors researchers senior engineers and enterprise managers

Oil and Gas Risk Assessment and Management: Emerging Research and Opportunities Bubevski, Vojo, 2025-04-29 Effective risk assessment and management in the oil and gas industry is vital for ensuring operational safety environmental protection and economic stability As the industry faces increasing challenges from geopolitical uncertainties fluctuating markets and environmental regulations implementing robust risk management practices helps mitigate potential disasters and financial losses By leveraging advanced tools organizations can better anticipate and respond to operational risks This not only enhances the sustainability of energy production but also protects communities and ecosystems from the consequences of industrial accidents Strengthening risk management practices supports long term growth and resilience in the global energy sector Oil and Gas Risk Assessment and Management Emerging Research and Opportunities explores advanced methodologies and tools for assessing and managing risks in the oil and gas industry focusing on practical applications It demonstrates how these techniques can improve decision making enhance safety and mitigate financial and operational risks Covering topics such as oil depletion porosity and weather disruption this book is an excellent resource for risk analysts financial managers decision makers academicians researchers and more

Sustainable Natural Gas Reservoir and Production Engineering David A. Wood, Jianchao Cai, 2021-10-30 Sustainable Natural Gas Reservoir and Production Engineering the latest release in The Fundamentals and Sustainable Advances in Natural Gas Science and Engineering series delivers many of the scientific fundamentals needed in the natural gas industry including improving gas recovery simulation processes for fracturing methods and methods for optimizing production strategies Advanced research covered includes machine learning applications gas fracturing mechanics aimed at reducing environmental impact and enhanced oil recovery technologies aimed at capturing carbon dioxide Supported by corporate and academic contributors along with two well distinguished editors this book provides today's natural gas engineers the fundamentals and advances in a convenient resource Helps readers advance from basic equations used in conventional gas reservoirs Presents structured case studies to illustrate how new principles can be applied in

practical situations Covers advanced topics including machine learning applications to optimize predictions controls and improve knowledge based applications Helps accelerate emission reductions by teaching gas fracturing mechanics with an aim of reducing environmental impacts and developing enhanced oil recovery technologies that capture carbon dioxide

Microscopic structure effect on the macroscopic property of geomaterials Qingxiang Meng,Wei Wang,Huanling Wang,Wanqing Shen,Chun Zhu,2023-03-17 Proceedings ,1998 *The Journal of Canadian Petroleum Technology* ,2010

Proceedings ... SPE Annual Technical Conference and Exhibition Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1997 **Fairchild Textile-apparel Analysis** Borsodi Analytical Bureau, inc. Commodity Division,1925 *Petroleum Abstracts* ,1995-08 *Estimation and Classification of Reserves of Crude Oil, Natural Gas and Condensate* Chapman Cronquist,2001 This book covers all aspects of estimating and classifying reserves of crude oil natural gas and condensate attributed to primary recovery mechanisms Both deterministic and probabilistic procedures are discussed Reserves definitions for many of the major producing countries are provided including a comparison of the US Securities and Exchange Commission and Society of Petroleum Engineers World Petroleum Congress reserves definitions Case histories illustrate reasons for errors in reserves estimation Correlation charts and empirical equations to estimate pressure volume temperature properties of reservoir fluids are provided in one of several special appendices SPE Reservoir Evaluation & Engineering ,2010 The Lumber Manufacturer and Dealer ,1926 **Chicago Lumberman** ,1927

National Lumberman ,1926 *Atlantic Outer Continental Shelf Energy Resources* Robert John Kalter,Wallace E. Tyner,Thomas H. Stevens,1974 Dr. techn. avhandling ,1988 *A.E. Res* ,1974

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