

The background of the slide features a photograph of an oil field at sunset. Several pumpjacks are visible as dark silhouettes against a bright, hazy sky with a gradient from yellow to blue. The foreground is dark and indistinct.

Advanced Production Decline Analysis and Application

Hedong Sun



Advanced Production Decline Analysis And Application

Zhan Qu,Jia'en Lin



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

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

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 **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 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 2020* Jia'en Lin,2021-06-17 This book is a compilation of selected papers from the 10th International Field Exploration and Development Conference IFEDC 2020 The proceedings 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 Geomechanics 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 professional students **Proceedings of the International Field Exploration and Development Conference 2017** Zhan Qu,Jia'en Lin,2018-07-11 This book presents selected papers from

the 7th International Field Exploration and Development Conference IFEDC 2017 which focus on upstream technologies used in oil gas development the principles of the process and various design technologies The conference not only provides a platform for exchanging lessons learned but also promotes the development of scientific research in oil gas exploration and production The book will benefit a broad readership including industry experts researchers educators senior engineers and managers Proceedings of the International Field Exploration and Development Conference 2022 Jia'en Lin,2023-08-05

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 12th International Field Exploration and Development Conference IFEDC 2022 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 professional students

Well Test Analysis for Multilayered Reservoirs with Formation Crossflow Hedong Sun,Chengtai Gao,2017-03-15 Well Test Analysis for Multilayered Reservoirs with Formation Crossflow introduces the fundamentals of well test analysis of a multilayered reservoir with formation crossflow The effects of reservoir parameters on wellbore pressure and flow rate are examined as is a proper method that has been established to analyze well test data that leads to better determinations on the reservoir parameters for each layer of the reservoir Focusing on multilayer models for data analysis this reference explains the reasons for the existence of single phase crossflow in multilayer reservoirs exploring methods to establish them and presenting practical applications to utilize and implement for today s more complex reservoirs Aiding in better well testing operations and models this book is a one stop solution for today s reservoir and production engineer helping them understand every layer of their reservoir Includes real world examples of well testing through multilayered reservoirs whether with crossflow or with formation crossflow Provides strong guidance and criteria of research on reservoir dynamic performance such as physical models and mathematical models Includes a new unsteady crossflow model for vertical interference testing in low permeability zones Describes interpretation methods for different cases in multilayer reservoirs including a new model called semipermeable walls for stratified reservoirs drawdown test procedures and layer by layer test procedures that are useful for shales between layers *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

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