

WELL TEST DESIGN & ANALYSIS

22 - 26 August 2016 | Kuala Lumpur, Malaysia



Expert Course Director

DAVID ROSSITTO

David is a highly skilled Petroleum Engineer and Lecturer with over 35 years worldwide experience in Supervision of Well Testing, Completion, Slickline and Cased Hole Logging operations. He has 14 years of experience with Flopetrol-Johnston (Schlumberger) and 12 years as a Supervisor for clients such as Cepsa and Anadarko. David has extensive experience in the training and mentoring of staff, and the provision of external training courses as an independent lecturer.

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Well Test Design Analysis Well Test Design Analysis

**Huinong Zhuang, Yongxin Han, Hedong
Sun, Xiaohua Liu**



Well Test Design Analysis Well Test Design Analysis:

Well Test Design & Analysis George Stewart, 2011 Petroleum engineers face the daily challenges of designing and testing wells Finding the right technical data guide for conducting these tasks can be daunting and so renowned petroleum engineer George Stewart has written the comprehensive volume *Well Test Design Analysis* filled with advanced information unparalleled on a variety of wellbore topics From ascertaining accurate reservoir descriptions to the intricacies of designing a horizontal well program the author covers every topic in detail The volume includes a CD containing chapters 16 20 [Oil Well Testing Handbook](#) Amanat Chaudhry, 2004-01-24 *Oil Well Testing Handbook* is a valuable addition to any reservoir engineer's library containing the basics of well testing methods as well as all of the latest developments in the field Not only are evergreen subjects such as layered reservoirs naturally fractured reservoirs and wellbore effects covered in depth but newer developments such as well testing for horizontal wells are covered in full chapters Covers real life examples and cases The most up to date information on oil well testing available The perfect reference for the engineer or textbook for the petroleum engineering student

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

Well Test Analysis and Design Procedures John Baxter Rollins, 1990 [Operational Aspects of Oil and Gas Well Testing](#) S. McAleese, 2000-03-10 Well Testing is recognised by many operating oil and gas companies to be the most hazardous operation they routinely undertake Therefore it is of great importance that such operations are extremely well planned and executed This handbook covers all the major Operational Aspects of Oil and Gas Well Testing and uses a structured approach

to guide the reader through the steps required to safely and effectively plan a well test operation under just about any circumstances world wide Safety procedures and well testing recommended practices are rigorously addressed in this book as are the responsibilities of those persons involved in well testing operations Perforating equipment drill stem test equipment and bottom hole pressure gauges are discussed in detail in the book There is also a very valuable section on sub sea equipment an area often not well understood even by experienced engineers who may have been primarily involved with land or jackup rigs A major part of the book is the detailed coverage of the equipment and instrumentation that makes up a surface well testing package It also covers operational and testing related problems such as hydrates wax and sand and offers the reader some possible solutions There are useful chapters on sampling onsite chemistry coil tubing and nitrogen operations and basic stimulation as they relate to well testing Finally there is an extensive section of appendices covering useful engineering calculations and there is a complete example of a detailed well testing programme

Aquifer-test Design, Observation and Data Analysis Robert William Stallman,1971 **Geothermal Well Test Analysis** Sadiq J. Zarrouk,Katie McLean,2019-04-30 Geothermal Well Test Analysis Fundamentals Applications and Advanced Techniques provides a comprehensive review of the geothermal pressure transient analysis methodology and its similarities and differences with petroleum and groundwater well test analysis Also discussed are the different tests undertaken in geothermal wells during completion testing output production testing and the interpretation of data In addition the book focuses on pressure transient analysis by numerical simulation and inverse methods also covering the familiar pressure derivative plot Finally non standard geothermal pressure transient behaviors are analyzed and interpreted by numerical techniques for cases beyond the limit of existing analytical techniques Provides a guide on the analysis of well test data in geothermal wells including pressure transient analysis completion testing and output testing Presents practical information on how to avoid common issues with data collection in geothermal wells Uses SI units converting existing equations and models found in literature to this unit system instead of oilfield units *Dynamic Well Testing in Petroleum Exploration and Development* Huinong Zhuang,Yongxin Han,Hedong Sun,Xiaohua Liu,2020-05-12 Dynamic Well Testing in Petroleum Exploration and Development Second Edition describes the process of obtaining information about a reservoir through examining and analyzing the pressure transient response caused by a change in production rate The book provides the reader with modern petroleum exploration and well testing interpretation methods including their basic theory and graph analysis It emphasizes their applications to tested wells and reservoirs during the whole process of exploration and development under special geological and development conditions in oil and gas fields taking reservoir research and performance analysis to a new level This distinctive approach features extensive analysis and application of many pressure data plots acquired from well testing in China through advanced interpretation software that can be tailored to specific reservoir environments *Modern Well Test Analysis* Roland N. Horne,1990 *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

The Design, Performance, and Analysis of Slug Tests James Johnson Butler, Jr., 1997-11-25 The slug test is currently the most common method for the in situ estimation of hydraulic conductivity at sites of suspected groundwater contamination However inappropriate procedures in one or more phases of a slug test can introduce considerable error into the resulting parameter estimates This book remedies this problem by answering virtually every question regarding the design performance and analysis of slug tests This is the first book to provide detailed information on the practical aspects of the methodology of slug tests All major analysis methods are described in *The Design Performance and Analysis of Slug Tests* Each analysis method is outlined in a step by step manner and illustrated with a field example The major practical issues related to the field application of each technique are also discussed This book will help the reader get more reliable parameter estimates from slug tests and increase the utility of slug test data

Petroleum Engineering: Principles, Calculations, and Workflows Moshood Sanni, 2018-09-21 Ein ausführlicher Praxisleitfaden zu Methoden für die Lösung komplexer Probleme in der Erdöltechnik In der Erdöltechnik dominieren bergreifende wissenschaftliche und mathematische Prinzipien Allerdings gibt es immer wieder Lücken zwischen Theorie und praktischer Anwendung *Petroleum Engineering Principles Calculations and Workflows* stellt Methoden für die Lösung einer Vielzahl praktischer Probleme in der Erdöltechnik vor Jedes Kapitel beschäftigt sich mit einer spezifischen Problemstellung beschreibt Formeln zur Erläuterung der primären Prinzipien dieses Problems und zeigt im Anschluss einfach nachvollziehbare Handreichungen für die praktische Anwendung Hauptmerkmale dieses Bandes Fundierter und integrierter Ansatz für die Lösung inverser Probleme Ausführliche Untersuchung der Abläufe einschließlich Modell und Parametervalidierung Einfache Ansätze für die Lösung komplexer mathematischer Probleme Komplexe Berechnungen die sich mit einfachen Methoden leicht implementieren lassen Überblick über wichtige Herangehensweisen die für die Software und Anwendungsentwicklung notwendig sind Formel und Modellhandreichungen für die Diagnose erstmalige Parametermodellierung Simulation und Regression *Petroleum Engineering Principles Calculations and Workflows* ist ein wertvolles Referenzwerk für die Praxis und richtet sich an eine breite Zielgruppe Geowissenschaftler Explorationsgeologen und Ingenieure Dieser zugängliche Leitfaden ein fundiertes Nachschlagewerk für die Lösung alltäglicher Probleme in der Erdöltechnik eignet sich ebenfalls gut für Studenten

im Hauptstudium Postgraduierte Berater Softwareentwickler und Berufspraktiker *Invitational Well-Testing Symposium Proceedings, October 19-21, 1977, Berkeley, California, 1977* Well Test Analysis Dominique Bourdet, 2002-08-21 This book on well test analysis and the use of advanced interpretation models is volume 3 in the series Handbook of Petroleum Exploration and Production The chapters in the book are Principles of Transient Testing Analysis Methods Wellbore Conditions Effect of Reservoir Heterogeneities on Well Responses Effect of Reservoir Boundaries on Well Responses Multiple Well Testing Application to Gas Reservoirs Application to Multiphase Reservoirs Special Tests Practical Aspects of Well Test Interpretation Novel, Integrated and Revolutionary Well Test Interpretation and Analysis Freddy Escobar, 2019-01-30 The TDS technique is a practical easy and powerful tool for well test interpretation It uses characteristic features and points found on the pressure derivative versus time plot so that reservoir parameters can be easily calculated by using several analytic expressions Most calculations can be verified more than once and applied to systems where the conventional straight line method has no applications This book deals with well tests run in elongated systems partially completed penetrated wells multirate tests hydraulically fractured wells interference tests and naturally fractured reservoirs This technique is used in all commercial well testing software Its use is the panacea for well test interpretation and can also be extended to rate transient analysis although not shown here 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

Water Well and Aquifer Test Analysis Phil Hall, Joe Chen, 1996 **Gas Well Testing Handbook** Amanat Chaudhry, 2003-09-24 Gas Well Testing Handbook deals exclusively with theory and practice of gas well testing pressure transient analysis techniques and analytical methods required to interpret well behavior in a given reservoir and evaluate

reservoir quality simulation efforts and forecast producing capacity A highly practical edition this book is written for graduate students reservoir simulation engineers technologists geologists geophysicists and technical managers The author draws from his extensive experience in reservoir simulation well testing PVT analysis basics and production operations from around the world and provides the reader with a thorough understanding of gas well test analysis basics The main emphasis is on practical field application where over 100 field examples are presented to illustrate basic methods for analysis Simple solutions to the diffusivity equation are discussed and their physical meanings examined Each chapter focuses in how to use the information gained in well testing to make engineering and economic decisions and an overview of the current research models and their equations are discussed in relation to gas wells homogenous heterogeneous naturally and hydraulically fractured reservoirs Handy portable reference with thousands of equations and procedures There is currently no other reference or handbook on the market that focuses only on gas well testing Offers one stop shopping for the drilling and reservoir engineer on gas well testing issues

Reservoir Analysis and Parameter Estimation Constrained to Temperature, Pressure and Flowrate Histories Obinna Onyinye Duru, 2011 Acquisition of downhole temperature measurements in addition to production data is routine in production systems The temperature measurements which are currently being used for pressure data correction are cheap to acquire accurate and have good resolutions The answer to the question of how useful these temperature measurements can be beyond the current utilization for pressure correction was the goal of this research work In the first part of this work a mechanistic multiphysics and multiscale model for thermal transport process in a porous medium was developed accounting for compressibility and viscous dissipation effects like Joule Thomson and adiabatic expansion phenomena To validate the model a laboratory experiment was designed to allow for a controlled flow of air through a porous core while measuring the temperature changes at different locations The data acquired were used to verify the model and perform sensitivity studies and the results showed functional dependencies of the model on useful reservoir parameters such as porosity flow velocities and thermal properties of the rock and fluid and these functional dependencies revealed the potential of temperature data as an additional source of constraining data in temporal and distributed reservoir parameter estimation In addition the temperature model was well suited for the application of a number of analytical tools that lead to the extraction of these useful reservoir characteristic information In the second part using multiresolution methods based on the second derivative of the Gaussian kernel temperature measurements were combined with pressure data to improve the identification of transients in data as well as yield better behavioral filtering Until now only pressure measurements are used and this has shown to be unreliable The approach developed here exploited the independence between the pressure and temperature measurements to constrain the estimation of the location of the breakpoints The third segment of this research exploited the convective nature of thermal transport during flow to characterize near wellbore properties such as the extent of damage around a well or extent of stimulation The model lent itself to the application of the

semianalytical Operator Splitting decomposition technique and as a result the solution of the advection component could be separated and used to estimate near wellbore structures such as damage or stimulation radius and permeability As temperature measurements are an independent source of measurements a joint inversion of production data and temporal temperature measurements taken from multiwell production systems showed a significant improvement in the reservoir state estimation problem using state space estimation techniques like the Ensemble Kalman filter This marked improvement was over the results from current approaches which match only production data Results showed that introducing temperature improved the resolution of both permeability and porosity fields significantly The last part of this research dealt with the estimation of flowrate using only temperature measurements The temperature model showed a strong functional dependence of temperature on flowrates at high Peclet number By deconvolution the advective flow kernel was separated from the diffusion part and the complete flowrate history reconstructed from this kernel Results showed that in synthetic and field cases this extracted flowrate compared well with the true flowrate measurements The philosophical significance of this work is that low cost temperature measurements which are measured routinely in producing wells are a promising source of additional data for further constraining of reservoir characterization and optimization problems

Fundamental And Applied Pressure Analysis Tayyar Sezgin Daltaban, C G Wall, 1998-08-08 The analysis of well tests constitutes one of the most powerful tools for the effective description of a petroleum reservoir and its subsequent management This requires that the well test be placed in the proper context of related disciplines especially geoscience production and reservoir engineering Modern methods of automated data processing can conceal mathematical limitations and overlook the need for realistic physical and geologic models This book emphasizes the plausible physical contexts and mathematical models and limitations and also the importance of realistic geologic models in analysis Although the book is clearly targeted at petroleum engineers the approach taken by the authors will no doubt find favour with practitioners in other areas of fluid flow in porous media such as hydrology and the flow of pollutants Scattered throughout the book are worked examples of the use of the methods described in the text It also contains extensive appendices on permeability application of Laplace transforms to flow equations valid for single and multi layered systems convolution and deconvolution dimensionless parameters and P theorems and physical and thermodynamic properties of gases This book should appeal to students as well as practitioners in industry many in the latter group may have benefited before from formal exposure to the underlying theory and its limitations in real reservoir environments

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