

Advances in Petroleum Engineering

# FORMATION TESTING

LOW MOBILITY PRESSURE  
TRANSIENT ANALYSIS

Wilson C. Chin

Yanmin Zhou, Yongren Feng and Qiang Yu



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**Wireline Formation Testing** Fikri J Kuchuk,T S Ramakrishnan, Mustafa Onur, 2021-03-13 Wireline Formation Testing provides a comprehensive exploration of this modeling through use of hardware advanced formation testing modules and new interpretation techniques Exposition of these analytical models systematic inclusion of mixed boundary value problems first principle based pressure gradient interpretation probabilistic enumeration of radius of investigation and system identification methods appeal to various levels of engineering expertise This book provides a resource to experienced engineers who wish to evaluate reservoirs simultaneously with the scope of the testing results as well as to universities that wish to provide students with this understanding through undergraduate and applied graduate courses      **Formation Testing** Wilson C. Chin, Yanmin Zhou, Yongren Feng, Qiang Yu, Lixin Zhao, 2014-02-14 The only book available for the reservoir or petroleum engineer covering formation testing with algorithms for wireline and LWD reservoir analysis developed for transient pressure contamination modeling permeability and pore pressure prediction Traditional well logging methods such as resistivity acoustic nuclear and NMR provide indirect information relating to fluid and formation properties However the formation tester offered in wireline and MWD LWD operations is different It collects actual downhole fluid samples for surface analysis and through pressure transient analysis provides direct measurements for pore pressure mobility permeability and anisotropy These are vital to real time drilling safety geosteering hydraulic fracturing and economic analysis Methods for formation testing analysis while commercially important and accounting for a substantial part of service company profits are shrouded in secrecy Many are poorly constructed and because details are not available industry researchers are not able to improve on them Formation Testing explains conventional models and develops new more powerful algorithms for early time analysis More importantly it addresses a critical area in sampling related to time required to pump clean samples using rigorous multiphase flow techniques All of the methods are explained in complete detail Equations are offered for users to incorporate in their own models but for those needing immediate answers convenient easy to use software is available The lead author is a well known petrophysicist with hands on experience at Schlumberger Halliburton BP Exploration and other companies His work is used commercially at major oil service companies and important extensions to his formation testing models have been supported by prestigious grants from the U S Department of Energy His latest collaboration with China National Offshore Oil Corporation marks an important turning point where advanced simulation models and hardware are evolving side by side defining a new generation of formation testing logging instruments Providing more than formulations and solutions this book offers a close look at behind the scenes formation tester development as the China National Offshore Oil Corporation opens up its research engineering and manufacturing facilities through a collection of never before seen photographs showing how formation testing tools are developed from start to finish      **Formation Testing** Wilson C. Chin, 2019-03-14 This new volume the third in Wiley

Scrivener's series on formation testing reviews pressure transient interpretation and contamination analysis methods providing numerous practical discussions and examples with rigorous formulations solved through exact closed form analytical solutions. This new volume in the Formation Testing series further develops new methods and processes that are being developed in the oil and gas industry. In the 1990s through 2000s the author co-developed Halliburton's commercially successful GeoTap™ real time LWD MWD method for formation testing and also a parallel method used by China Oilfield Services which enabled the use of data taken at early times in low mobility and large flowline volume environments to support the important estimation of mobility compressibility and pore pressure which are necessary for flow economics and fluid contact boundaries analyses. This work was later extended through two Department of Energy Small Business Innovation Research awards. While extremely significant the effect of high pressures in the borehole could not be fully accounted for. The formation tester measures a combination of reservoir and mud pressure and cannot ascertain how much is attributed to unimportant borehole effects. The usual approach is simply wait until the effects dissipate which may require hours which imply high drilling and logging costs plus increased risks in safety and tool loss. The author has now modeled this supercharge effect and developed a powerful mathematical algorithm that fully accounts for mud interactions. In short accurate predictions for mobility compressibility and pore pressure can now be undertaken immediately after an interval is drilled without waiting. This groundbreaking new work is a must have for any petroleum reservoir or mud engineer working in the industry solving day to day problems that he or she encounters in the field.

*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.

Journal of Petroleum Technology, 2008    Annual Report Illinois State Geological Survey, 1998    Geology for a New Generation Illinois State Geological Survey, 1998

*Scientific and Technical Aerospace Reports*, 1986. Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

*Illinois State Geological Survey* Illinois State Geological Survey, 1998    **SPE Global Link**, 2002

**Commerce Business Daily** ,2000-03      *Pressure Transient Testing* John Lee,John B. Rollins,John P. Spivey,2003

Pressure Transient Testing presents the fundamentals of pressure transient test analysis and design in clear simple language and explains the theoretical bases of commercial well test analysis software Test analysis techniques are illustrated with complete and clearly written examples Additional exercises for classroom or individual practice are provided With its focus on physical processes and mathematical interpretation this book appeals to all levels of engineers who want to understand how modern approaches work Pressure transient test analysis is a mature technology in petroleum engineering even so it continues to evolve Because of the developments in this technology since the last SPE textbook devoted to transient testing was published we concluded that students could benefit from a textbook approach to the subject that includes a representative sampling of the more important fundamentals and applications We deliberately distinguish between a textbook approach which stresses understanding through numerous examples and exercises dealing with selected fundamentals and applications and a monograph approach which attempts to summarize the state of the art in the technology Computational methods that transient test analysts use have gone through a revolution since most existing texts on the subject were written Most calculations are now done with commercial software or by spreadsheets or proprietary software developed by users to meet personal needs and objectives These advances in software have greatly increased productivity in this technology but they also have contributed to a black box approach to test analysis In this text we attempt to explain what s in the box and we do not include a number of the modern tools that enhance individual engineer productivity We hope instead to provide understanding so that the student can use the commercial software with greater appreciation and so that the student can read monographs and papers on transient testing with greater appreciation for the context of the subject Accordingly this text is but an introduction to the vast field of pressure transient test analysis

*Hart's Oil and Gas World* ,1997      SPE Production & Operations ,2009      CEP Software Directory ,1998

*Government Reports Announcements & Index* ,1982-03      *Thomas Register of American Manufacturers* ,2003 Vols for 1970 71 includes manufacturers catalogs      *Pressure Transient Testing* ,2004-01-01      Pressure Transient Testing Methods ,1980      Formation Testing Cosan Ayan,2011

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