

7. FLUID TESTING AND PRESSURE LOGS

7.1 Introduction

Formation fluid testing involves taking fluid samples from the formation and measuring their pressures. It gives information on the types and properties of fluids in the formation, indicates the presence of hydrocarbons, and provides information on the pressures of the fluids within the formation.

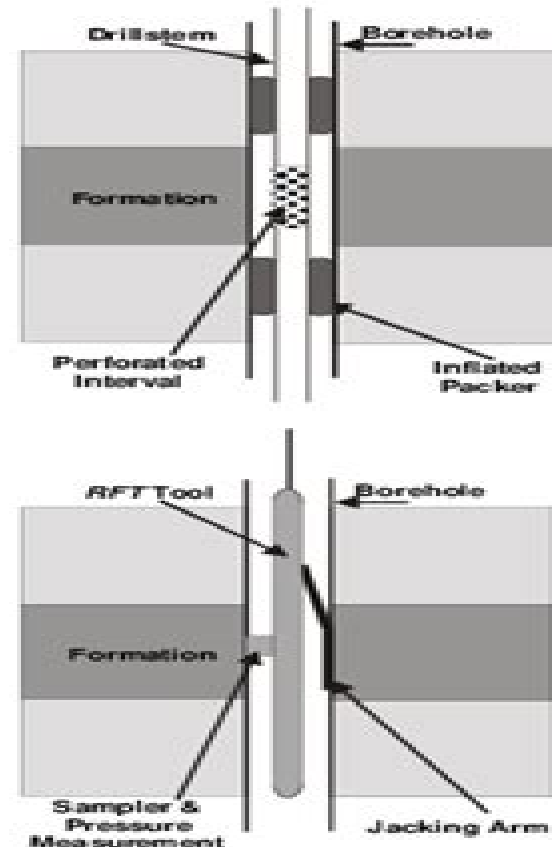
There are three generic types of test, the second of which will be examined in detail as it is a wireline method. The three measurement types are as follows, and are described in the order that they are performed, in their complexity, and therefore their cost.

Drillstem testing. This is carried out during the drilling of the well. A portion of perforated drill pipe and one or two devices for sealing the interval of the well of interest off (packers) are lowered down the well to the required depth. The packer is then expanded to make a seal between the borehole wall and the drill pipe. If the bottom of the well is being tested, only one packer is needed. If an interval further up the well is being tested, two packers are needed, one above the interval and one below. A valve is then opened to reduce the pressure within the drill stem and the packed-off interval to surface pressures. Fluids will flow from the formation into the packed-off interval and hence to the surface through the perforations in the drill pipe and up the pipe. These fluids may be sampled and analyzed. Note that this procedure is the equivalent of a temporary completion of the well. (Fig. 7.1).

Figure 7.1 The drillstem test.

Wireline formation testing (RFT). This operation is carried out in an open hole during wireline logging operations. The wireline tool is lowered down the uncased hole to the point of interest. It is then jacked and sealed against the borehole wall. Samples of fluids and measurements of the fluid pressures are then taken. Note that this form of logging is not continuous, and is carried out at a few previously defined depths in the reservoir zone of the well only (Fig. 7.2).

Figure 7.2 The RFT test.



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Unconventional Resources Cenk Temizel, Cengiz Yegin, Jihoon Kim, Luigi Saputelli, Ole Torsæter, 2025-02-27 The oil and gas sector is a vital player in the energy transition With their vast resource potential unconventional shale plays will be an essential part in enabling this change *Unconventional Resources* serves as a comprehensive reference covering the latest technologies methodologies and applications of unconventional shale resources in the oil and gas industry and their role in the evolution of the sector's energy transition This book Offers an overview of geophysics geology and reservoir characterization in unconventional resources Discusses drilling well stimulation and completion production engineering and artificial lift Covers reservoir management and surveillance recovery enhancement production forecasting and surface facilities and testing Details technical and technological advances including machine learning AI data analytics and Industry 4.0 Explores the latest methods workflows in performance analysis in unconventional plays Employs integrated and hybrid approaches to the energy transition The book provides surface and subsurface technical professionals in the oil and gas industry a thorough overview of unconvensionals along with the integrated hybrid applications that will enable them to stay current with the industry's transition

Physics of Petroleum Reservoirs Xuetao Hu, Shuyong Hu, Fayang Jin, Su Huang, 2017-08-08 This book introduces in detail the physical and chemical phenomena and processes during petroleum production It covers the properties of reservoir rocks and fluids the related methods of determining these properties the phase behavior of hydrocarbon mixtures the microscopic mechanism of fluids flowing through reservoir rocks and the primary theories and methods of enhancing oil recovery It also involves the up to date progress in these areas It can be used as a reference by researchers and engineers in petroleum engineering and a textbook for students majoring in the area related with petroleum exploitation

Petrophysics Steve Cannon, 2015-09-03 Petrophysics is the science of evaluating the rock and fluid properties of oil gas and water reservoirs through the acquisition of physical samples electrical chemical nuclear and magnetic data acquired by surface logging downhole coring and drilling and wireline sondes The evaluation analysis and interpretation of this data is as much an art as a science as it requires an understanding of geology chemistry physics electronics mechanics and drilling technology The techniques have been developed over the last 100 years primarily by the oil and gas industry but the principles are equally relevant in coal mining hydrogeology and environmental science This book is firmly aimed at students of geology and petroleum engineering looking for a practical understanding of the background and workflows required to complete a petrophysical study of a well a reservoir or a field Petrophysics is log analysis constrained by geology and if we ignore the rocks we risk making poor investment decisions

A Geoscientist's Guide to Petrophysics Bernard Zinszner, Francois-Marie Pellerin, 2007 Geoscientists and Engineers taking an interest in Petrophysics are struck by the contrasting treatment of the Physics Aspects and the Geology Aspects If we are to scale up isolated petrophysical observations to an entire oil reservoir or an aquifer it is essential to implement the powerful

extrapolation tool of geological interpretation This is clearly based on a good understanding of the relations between the petrophysical parameters studied and the petrological characteristics of the rock considered The book is divided into two sections of different size The first section by far the largest describes the various petrophysical properties of rocks Each property is defined limiting the mathematical formulation to the strict minimum but emphasising the geometrical and therefore petrological parameters governing this property The second section concentrates on methodological problems and concerns above all the representativeness of the measurements and the size effects The notions of Representative Elementary Volume Homogeneity Anisotropy RockType etc provide a better understanding of the problems of up scaling Plug Core Log Analysis Well Test Lastly we provide a description of several Porous Network investigation methods Thin section Pore Cast Visualization of capillary properties X ray tomography Fundamentals of Petrophysics Shenglai Yang,2017

Petrophysics Erle C. Donaldson,Djebbar Tiab,2004-01-24 The petroleum geologist and engineer must have a working knowledge of petrophysics in order to find oil reservoirs devise the best plan for getting it out of the ground then start drilling This book offers the engineer and geologist a manual to accomplish these goals providing much needed calculations and formulas on fluid flow rock properties and many other topics that are encountered every day New updated material covers topics that have emerged in the petrochemical industry since 1997 Contains information and calculations that the engineer or geologist must use in daily activities to find oil and devise a plan to get it out of the ground Filled with problems and solutions perfect for use in undergraduate graduate or professional courses Covers real life problems and cases for the practicing engineer *Practical Petrophysics* Martin Kennedy,2024-12-04 Practical Petrophysics Second Edition provides a comprehensive overview of building a petrophysical model All aspects from the principles of data acquisition through analysis to reporting are covered It is not intended to be a review of specific tools and measurements nor is it simply a recipe book The book aims to teach the fundamental principles that underlie the commonly used tools and techniques but also to encourage pragmatism and avoid reading too much into what is always imperfect data Includes a new chapter on underground storage of carbon dioxide and other net zero applications Covers new information on digital core analysis and density neutron methods Includes a new chapter on fractured reservoirs including models evaluation and geomechanics

Advanced Petrophysics: Geology, porosity, absolute permeability, heterogeneity, and geostatistics Ekwere J. Peters,2012 A practical fast paced approach to teaching the concepts and problems common in petroleum engineering that will appeal to a wide range of disciplines Petrophysics is the study of rock properties and their interactions with fluids including gases liquid hydrocarbons and aqueous solutions This three volume series from distinguished University of Texas professor Dr Ekwere J Peters provides a basic understanding of the physical properties of permeable geologic rocks and the interactions of the various fluids with their interstitial surfaces with special focus on the transport properties of rocks for single phase and multiphase flow Based on Dr Peters s graduate course that has been taught internationally in corporations and classrooms

the series covers core topics and includes full color CT and NMR images graphs and figures to illustrate practical application of the material Subjects addressed in volume 1 chapters 1 4 include Geological concepts Porosity and water saturation Absolute permeability Heterogeneity and geostatistics Advanced Petrophysics features over 140 exercises designed to strengthen learning and extend concepts into practice Additional information in the appendices covers dimensional analysis and a series of real world projects that enable the student to apply the principles presented in the text to build a petrophysical model using well logs and core data from a major petroleum producing province

Fundamentals of the Petrophysics of Oil and Gas Reservoirs Leonid Buryakovsky, G. V. Chilingar, Herman H. Rieke, Sanghee Shin, 2012-07-25

Written by some of the world's most renowned petroleum and environmental engineers Fundamentals of the Petrophysics of Oil and Gas Reservoirs is the first book to offer the practicing engineer and engineering student these new cutting edge techniques for prediction and forecasting in petroleum engineering and environmental management In this book the authors combine a rigorous yet easy to understand approach to petrophysics and how it is applied to petroleum and environmental engineering to solve multiple problems that the engineer or geologist faces every day Useful in the prediction of everything from crude oil composition pore size distribution in reservoir rocks groundwater contamination and other types of forecasting this approach provides engineers and students alike with a convenient guide to many real world applications Petroleum geologists and engineers must have a working knowledge of petrophysics in order to find oil reservoirs and devise the best plan for getting it out of the ground before drilling can begin This book offers the engineer and geologist a fundamental guide for accomplishing these goals providing much needed calculations and formulas on fluid flow rock properties and many other topics that are encountered every day The approach taken in Fundamentals of the Petrophysics of Oil and Gas Reservoirs is unique and has not been addressed until now in book format Readers now have the ability to review the historic development of relationships and equations to define critical petrophysics attributes many of which have either never been covered in the literature on petrophysics Useful for the veteran engineer or scientist and the student alike this book is a must have for any geologist engineer or student working in the field of upstream petroleum engineering

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