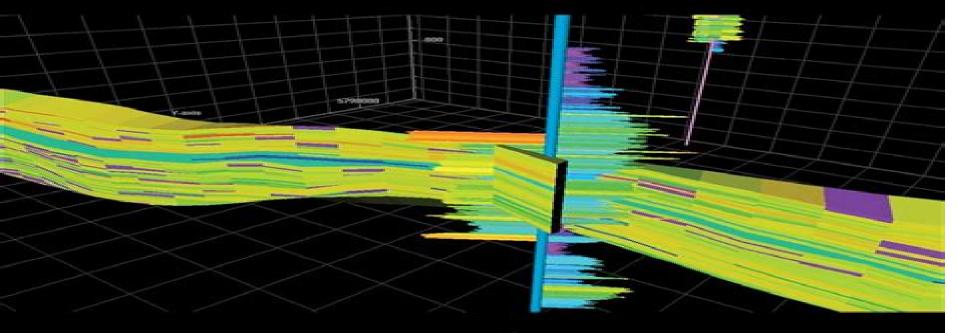
STEVE CANNON



Petrophysics

A PRACTICAL GUIDE

WILEY Blackwell

Ebook Petrophysics Practical Guide Steve Cannon

Martin Kennedy

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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 **Practical Petrophysics** Bob Harrison, Martin Kennedy, 2008-01 **Practical Petrophysics** Martin Kennedy, 2015-05-27 Practical Petrophysics looks at both the principles and practice of petrophysics in understanding petroleum reservoirs It concentrates on the tools and techniques in everyday use and addresses all types of reservoirs including unconventionals The book provides useful explanations on how to perform fit for purpose interpretations of petrophysical data with emphasis on what the interpreter needs and what is practically possible with real data Readers are not limited to static reservoir properties for input to volumetrics as the book also includes applications such as reservoir performance seismic attribute geo mechanics source rock characterization and more Principles and practice are given equal emphasis Simple models and concepts explain the underlying principles Extensive use of contemporary real life examples **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 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 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 **Advanced Petrophysics** ,2005 **Developments in Petroleum Science, Volume 62: Practical** Petrophysics, 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 quide 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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