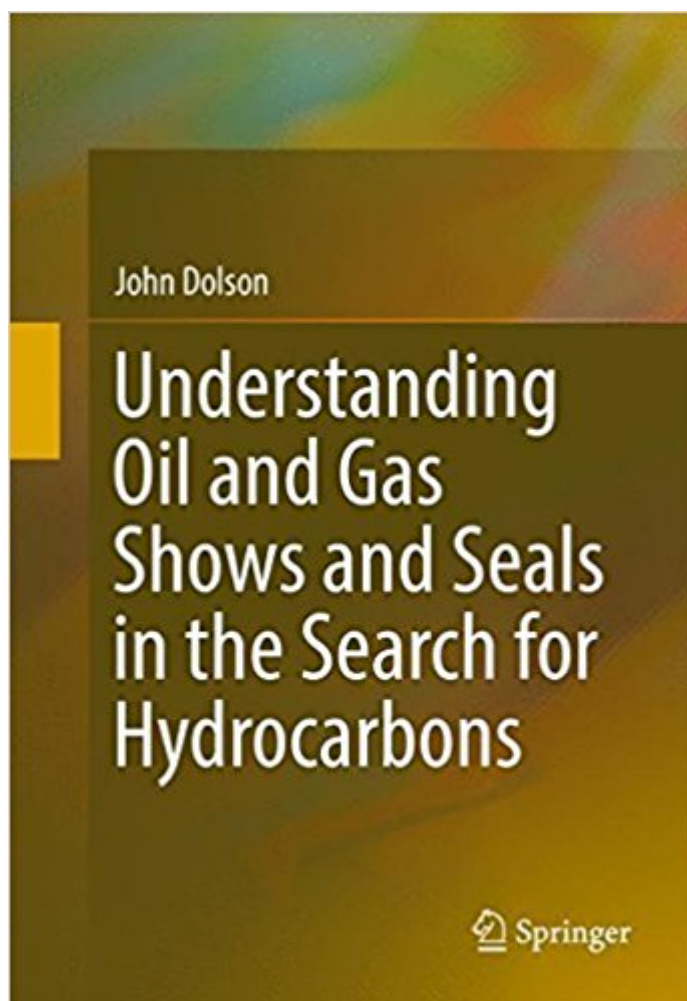


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# Understanding Oil And Gas Shows And Seals In The Search For Hydrocarbons



## Synopsis

This book explains in detail how to use oil and gas show information to find hydrocarbons. It covers the basics of exploration methodologies, drilling and mud systems, cuttings and mud gas show evaluation, fundamental log analysis, the pitfalls of log-calculated water saturations, and a complete overview of the use of pressures to understand traps and migration, hydrodynamics, and seal and reservoir quantification using capillary pressure. Also included are techniques for quickly generating pseudo-capillary pressure curves from simple porosity/permeability data, with examples of how to build spreadsheets in Excel, and a complete treatment of fluid inclusion analysis and fluid inclusion stratigraphy to map migration pathways. In addition, petroleum systems modeling and fundamental source rock geochemistry are discussed in depth, particularly in the context of unconventional source rock evaluation and screening tools for entering new plays. The book is heavily illustrated with numerous examples and case histories from the author's 37 years of exploration experience. The topics covered in this book will give any young geoscientist a quick start on a successful career and serve as a refresher for the more experienced explorer.

## Book Information

Hardcover: 486 pages

Publisher: Springer; 1st ed. 2016 edition (June 16, 2016)

Language: English

ISBN-10: 3319297082

ISBN-13: 978-3319297088

Product Dimensions: 6.1 x 1.1 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

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## Customer Reviews

Mr. Dolson's book is a long overdue work, filling a critical knowledge gap that has spanned decades of exploration and has resulted in billions of dollars in dry holes. His years of experience with major oil companies, as well as teaching and consulting, provide an exceptional perspective on this critically important subject. This book is an absolute must read and keep for explorationists at

all levels as well as managers and engineers. | this book is highly recommended. • (David Blanchard, GEOExPro, Vol. 14 (3), May, 2017) œ This is intended as a text for professional geologists beginning a career in oil and gas exploration. The work is based on the author's more than three decades of experience, mostly in Egypt, India, and Russia. | book is divided into nine chapters, each leading with an abstract and ending with a summary and references. Chapters are profusely illustrated with charts, diagrams, and occasional photos, mostly clear and easily readable | . Summing Up: Recommended. Lower- and upper-division undergraduates; professionals. • (P. Larsen, Choice, Vol. 54 (6), February, 2017)

The book covers in detail the ways to differentiate between residual and continuous phase (trapped) oil, false shows and shows associated with source rocks and tight oil and gas reservoirs (potential unconventional targets). Case histories of finding by-passed plays, new migration routes and new fields will be shown for each major topic. All of these materials are presented in the context of modern petroleum systems modeling of migration and charge, with an emphasis on how to calibrate and test the validity of the computer models. Lastly, exercises are included to reinforce the concepts in each chapter.

From the author: the site description is now quite right in that exercises are not included. However, there are examples of Excel spreadsheets that make quantitative analysis of shows data and special core analysis like capillary pressure included in numerous appendices. The book will jump-start anyone's ability to look for oil and gas with a multitude of tools and databases.

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