



Applied Reservoir Engineering, Vol. 1

BOOK

About the Book

This two-volume set of books illustrates the practical application of physical principles involved in primary recovery of oil and gas. Examples and procedures for solution of common problems are covered. The first few chapters stress fundamentals and provide the basis for a thorough understanding of the data needed in reservoir engineering studies. Recovery mechanisms are introduced and steady-state flow concepts and equations are discussed. Volumetric calculations, material balance, and immiscible displacement processes are then presented. Individual chapters are devoted to the analysis of common drive mechanisms.

Contents

Volume 1 – Geology; Properties of Reservoir Rocks; Fluid Properties; Reservoir Volumetrics; Gas Reservoirs; Gas Condensate Reservoirs; Fluid Flow in Reservoirs; Oil Reservoir Drive Mechanisms; Solution Gas Drive Reservoirs; Multizone Reservoir Performance; Immiscible Fluid Displacement Mechanisms; Nomenclature.

ISBN: 978-0-930972-15-8

Published 1992, Seventh Printing - Sept. 2010

Product Details

Categories: [Upstream](#)

Disciplines: [Reservoir Engineering](#)

Levels: [Basic](#)

Product Type: Book

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Hardcover: 480 pages

Publisher OGCI and PetroSkills Publications

\$95.00

