



The Practice of Reservoir Engineering (Revised Edition), Volume 36 (Developments in Petroleum Science)

By Dake, L.P.

Elsevier Science, 2001. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. About the Author. Nomenclature. Chapter 1 Introduction to Reservoir Engineering. Activities in reservoir engineering. Basic themes of the text. The role of reservoir engineers. Technical responsibilities of reservoir engineers. The physical principles of reservoir engineering. References. Chapter 2 The Appraisal of Oil and Gas Fields. Introduction. Pressure-volume-temperature fluid properties for oil. Calculation of the stock tank oil initially in place. Field unitization/equity determination. Calculation of gas initially in place(GIIP). Pressure-depth plotting. Application of the repeat formation tester. Pulse testing using the repeat formation tester. Appraisal well testing. Extended well testing. References. Chapter 3 Material Balance Applied to Oilfields. Introduction. Derivation of the cumulative material balance for oil reservoirs. Necessary conditions for application of material balance. Solving the material balance (knowns and unknowns). Comparison between material balance and numerical simulation modelling. The opening move in applying material balance. Volumetric depletion fields. Water influx calculations. Gascap drive. Compaction drive. Conclusion. References. Chapter 4 Oilwell Testing. Introduction. Essential observations in well testing. Well testing literature. The purpose of well testing. Basic, radial flow equation. Constant terminal rate solution of the radial diffusivity equation. The transient...

Reviews

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