



Dynamic Well Testing in Petroleum Exploration and Development

By HuiNong Zhuang

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Data accumulation, analysis, and interpretation technology are critical in hydrocarbon exploration and extraction to maximize petroleum recovery and development. *Dynamic Well Testing in Petroleum Exploration and Development* presents modern petroleum exploration and well testing interpretation methods, emphasizing their application and development under special geological and development conditions in oil and gas fields. More than 100 case studies and 250 illustrations?many in full color?aid in the retention of key concepts. Extensive analysis of pressure data acquired from well testing through advanced interpretation software can be tailored to specific reservoir environments. This timely, state-of-the-art reference will be of particular interest to petroleum geoscientists and engineers working for oil and gas companies worldwide.

- Includes graphs that can be used as templates to accurately plot hydrocarbon reservoir data accumulation, analysis, and interpretation
- Field-practical case studies break information down into real-world examples which can be put into practice?not found in other books on well testing
- Illustrations?many in full color?help you retain key concepts

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Editorial Review

Review

"After Zhuang graduated with an aeronautical engineering degree in 1962, he was assigned to China's Daqing oil field, where, by necessity, he used unconventional approaches to find and assess oil and gas wells. These have evolved into some of the most useful and accurate techniques for exploration and development over the following four decades."--Reference and Research Book News, August 2013

About the Author

Zhuang HuiNong, a professor and senior engineer, graduated from Peking University in 1962. He took part the research of development program in its early stage of Daqing Oilfield after graduation and then since 1965 he served in Shengli Oilfield and was interested in oil/gas well test. In 1980's took charge and operated interference tests and pulse tests in an oilfield in carbonate reservoir successfully; during this period he invented the interpretation type curves for interference well test in dual porosity reservoirs and applied these type curves in field practice; took charge of research of downhole differential pressure gauge and applied these gauges in data acquisition in fields and consequently won the invention award from China Nation Science and Technology Committee and was present the First International Meeting on Petroleum Engineering in Beijing in 1982, and his paper was published in the JPT. Since 1990 he served Research Institute of Petroleum Exploration and Development of CNPC, was concerned with the exploration and development of several large- or medium-scale gas-fields in China and has been doing dynamic performance research in about recent 20 years. Now is serving SPT Energy Group Inc. as its chief geologist. He has been devoting himself to dynamic performance analysis and well test for more than 40 years.

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