

## About the Authors



Quinn R. Passey holds a B.S. degree in Geology from Brigham Young University, and M.S. and Ph.D. degrees in Planetary Science and Geology from the California Institute of Technology. In 1982 he joined Exxon and has worked a variety of research and operations issues including: source rock evaluation from well logs, shaly sand analysis, and thin-bed evaluation. Current research is on formation evaluation of high-angle and horizontal wellbores. He has been an SPWLA Distinguished Lecturer and has served on the SPWLA Technology Committee. Previous life included studying the moons of Jupiter and Saturn and in discovering an earth-crossing asteroid. Quinn also advises NASA-JPL on methods to evaluate future drillwells on Mars.

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Kenneth E. Dahlberg (PetroGeeks LLC) is an independent petrophysical consultant in Houston, Texas. He joined Exxon Production Research Company in 1982, where his first major research effort was the development of a well-log inversion application that was used company-wide for more than 10 years. Dahlberg has been an SPWLA Distinguished Lecturer, served on the SPWLA Technology Committee, and co-edited SPE reprint volume 39, *Petrophysics*. He completed 20 years of petrophysics research with ExxonMobil and retired at the end of 2001. Dahlberg's academic background is in mathematics, with BA and Ph.D. degrees from Rice and Princeton, respectively.

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Keith Sullivan holds B.S. and M.A. degrees in Geology from the Universities of Michigan and Texas, respectively. In 1988 Sullivan joined Exxon Company, U.S.A., in Thousand Oaks, California, where he worked for 4 years as a production geoscientist. In 1992 he moved to Houston, Texas, to join a group of formation evaluation specialists in Exxon Exploration Company. In 1995 Sullivan joined Exxon Production Research Company where he contributed to a variety of petrophysical research projects relating to borehole imaging, thin-bed petrophysics and producibility prediction. In 1999 he participated in a multi-disciplinary, collaborative research project with Exxon's Upstream Development Company where he developed log-based facies models for deep-water reservoirs and log-seismic integration methodologies for 3-D geologic model construction. In 2000 Sullivan returned to Exploration as lead petrophysicist for North America and, after a 2-year assignment as ExxonMobil's Geoscience Best Practices Coordinator, assumed his current role as ExxonMobil's global Formation Evaluation Skill Area Coordinator.

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Hezhu Yin holds a B.S. in Geophysical Engineering from the University of Petroleum, China, and a Ph.D. in Geophysics from Stanford University. He taught at Da-Qing Petroleum Institute for 5 years as an Assistant Professor and 3 years at Lamont Doherty Earth Observatory of Columbia University, New York. He joined Exxon Production Research Company in 1995 (now ExxonMobil Upstream Research Company). His research interests and specialties include resistivity, nuclear, and sonic-tool response modeling and inversion, log-seismic integration and interpretation, rock physics, and 3-D seismic and petrophysical properties inversion.

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Bob Brackett is currently a consultant in McKinsey & Company's Petroleum Practice. Prior to joining the firm, Brackett spent 8 years at ExxonMobil in a number of assignments in research, development, and exploration. Bob holds a Ph.D. in Earth & Planetary Sciences from Washington University — St. Louis, an MBA from Rice University, a B.S. in Geophysics and a B.A. in Astronomy from the University of Texas — Austin. The work presented in this publication was neither conducted on McKinsey's behalf nor does it reflect the firm's perspective.

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Yuehui Xiao holds a B.S. degree in Geochemistry from the University of Science & Technology of China and a Ph.D. in Mineralogy/Geology from University of Illinois. He joined Exxon Production Research Company in 1996 and has worked on a variety of research, exploration, and development projects. Xiao is currently on assignment to Qatar RasGas as a petrophysicist.

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Angel G. Guzmán-García has a Ph.D. degree in Chemical Engineering from Tulane University. In 1990 he joined Exxon Production Research Company where he conducted laboratory and numerical research on the response of resistivity and SP tools in shaly sands, and investigated NMR petrophysical applications. In 2000, he transferred to ExxonMobil Exploration Company, where he performed petrophysical interpretation of wells in offshore West Africa and collaborated on NMR logging jobs around the globe. Currently, he works as Staff Engineer with geographical responsibility for ExxonMobil well-testing activities in Nigeria Exploration, Sakhalin, and Equatorial Guinea. Additional experience includes fluid sampling, PVT analysis, design and interpretation of PLT data, formation-tester data interpretation, and open-hole petrophysical interpretation and integration with pressure-transient analysis. Guzmán-García is an editor for SPWLA and SPE Journals.

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