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Fundamentals of Gas Shale Reservoirs

By Reza Rezaee

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Fundamentals of Gas Shale Reservoirs By Reza Rezaee

Provides comprehensive information about the key exploration, development and optimization concepts required for gas shale reservoirs

- Includes statistics about gas shale resources and countries that have shale gas potential
- Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development
- Introduces petrophysical analysis, rock physics, geomechanics and passive seismic methods for gas shale plays
- Details shale gas environmental issues and challenges, economic consideration for gas shale reservoirs
- Includes case studies of major producing gas shale formations

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Editorial Review

Review

“Comprehensive and up-to-date, Fundamentals of Gas Shale Reservoirs is an essential reference for anyone interested in gas shale reservoirs. It is also a must have text for students, of any discipline, studying non-conventional oil and gas resources and it is bound to become the 'gold standard' textbook in this field. In addition, this book is available in both print and e-book edition, making it easy to choose the format that best suits your needs.” (*Tundraco*, 1 October 2015)

From the Back Cover

Provides comprehensive information about the key exploration, development and optimization concepts required for gas shale reservoirs

Natural gas production from hydrocarbon rich shale formations, known as “shale gas”, is one of the most rapidly expanding trends in onshore domestic oil and gas exploration and production today. *Fundamentals of Gas Shale Reservoirs* introduces the reader to the topic of shale gas reservoirs and highlights the importance of the shale gas.

In general this book provides comprehensive information about the key exploration, development and optimization concepts required for shale gas reservoirs. It addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development. Specifically it covers such topics as shale gas classification, economic considerations, hydraulic fracturing, environmental considerations and issues, reserve estimation, and fluid flow mechanism in shale among others. Through contributions from leading experts in diverse fields, *Fundamentals of Gas Shale Reservoirs* features statistics about gas shale resources as well as countries that have shale gas potential.

Other topics covered include:

Organic geochemical properties of shale gas resource systems

Wettability of gas shale reservoirs

Methods used for evaluating pore geometry in shales

Shale gas geomechanics

Gas transport processes in shale

Finally the book includes case studies of major producing gas shales including Barnett, Haynesville, and Marcellus.

Reza Rezaee is a Professor in the Department of Petroleum Engineering at Curtin University, Australia. He

is the winner of Australian Gas innovation research 2012 award for introducing a new method to enhance natural gas production from shale gas and tight gas reservoirs. He is a former “Research Fellow”, School of Geology and Geophysics, Oklahoma University.

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Reza Rezaee is a Professor in the Department of Petroleum Engineering at Curtin University, Australia. He is the winner of Australian Gas innovation research 2012 award for introducing a new method to enhance natural gas production from tight gas reservoirs. He has published more than 120 peer-reviewed journal and conference papers and is the author of 3 books. His current research has been focused on integrated reservoir characterization, formation evaluation and petrophysics. He is a former “Research Fellow”, School of Geology and Geophysics, Oklahoma University.

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