



Deep Shale Oil and Gas

By James G. Speight

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Natural gas and crude oil production from hydrocarbon rich deep shale formations is one of the most quickly expanding trends in domestic oil and gas exploration. Vast new natural gas and oil resources are being discovered every year across North America and one of those new resources comes from the development of deep shale formations, typically located many thousands of feet below the surface of the Earth in tight, low permeability formations. *Deep Shale Oil and Gas* provides an introduction to shale gas resources as well as offer a basic understanding of the geomechanical properties of shale, the need for hydraulic fracturing, and an indication of shale gas processing. The book also examines the issues regarding the nature of shale gas development, the potential environmental impacts, and the ability of the current regulatory structure to deal with these issues. *Deep Shale Oil and Gas* delivers a useful reference that today's petroleum and natural gas engineer can use to make informed decisions about meeting and managing the challenges they may face in the development of these resources.

- Clarifies all the basic information needed to quickly understand today's deeper shale oil and gas industry, horizontal drilling, fracture fluids chemicals needed, and completions
- Addresses critical coverage on water treatment in shale, and important and evolving technology
- Practical handbook with real-world case shale plays discussed, especially the up-and-coming deeper areas of shale development

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Editorial Review

About the Author

James G. Speight is a senior fuel consultant as well as an Adjunct Professor of Chemical and Fuels Engineering at the University of Utah, USA. He is recognized internationally as an expert in the characterization, properties, and processing of conventional and synthetic fuels and as a chemist with more than 35 years of experience in thermal/process chemistry, thermodynamics, refining of petroleum, heavy oil, and tar sand bitumen, and physics of crude with emphasis on distillation, visbreaking, coking units, and oil-rock or oil catalyst interactions. Speight is currently Editor-in-Chief for the Journal of Petroleum Science and Technology, Energy Sources-Part A: Recovery, Utilization, and Environmental Effects, and Energy Sources-Part B: Economics, Planning, and Policy. He is also the author/editor/compiler of more than 25 books and bibliographies related to fossil fuel processing and environmental issues.

Speight was Chief Scientific Officer and then Chief Executive Officer of the Western Research Institute, Laramie, WY, USA, from 1984 to 2000. During this period he led a staff of more than 150 scientists, engineers, and technicians in developing new technology for gas processing, petroleum, shale oil, tar sand bitumen, and asphalt. Speight has considerable expertise in evaluating new technologies for patentability and commercial application. As a result of his work, he was awarded the Diploma of Honor, National Petroleum Engineering Society, for outstanding contributions to the petroleum industry in 1995 and the Gold Medal of Russian Academy of Sciences (Natural) for outstanding work in the area of petroleum science in 1996. He has also received the Specialist Invitation Program Speakers Award from NEDO (New Energy Development Organization, Government of Japan) in 1987 and again in 1996 for his contributions to coal research. In 2001, he was also awarded the Einstein Medal of the Russian Academy of Sciences (Natural) in recognition of outstanding contributions.

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