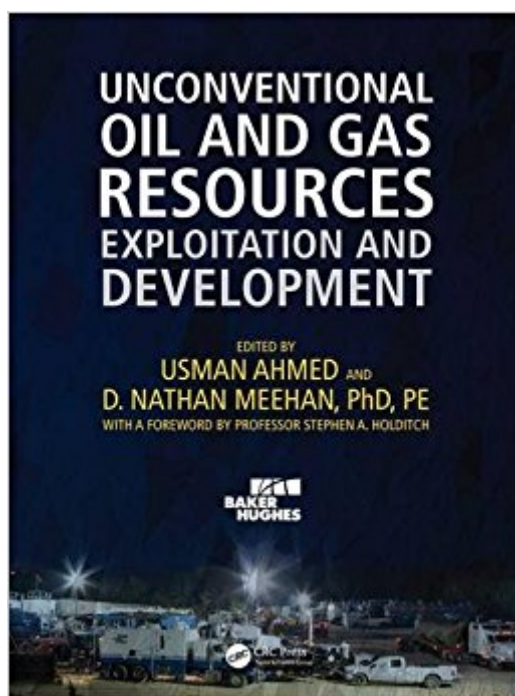


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# Unconventional Oil And Gas Resources: Exploitation And Development (Emerging Trends And Technologies In Petroleum Engineering)



## Synopsis

As the shale revolution continues in North America, unconventional resource markets are emerging on every continent. In the next eight to ten years, more than 100,000 wells and one- to two-million hydraulic fracturing stages could be executed, resulting in close to one trillion dollars in industry spending. This growth has prompted professionals experienced in conventional oil and gas exploitation and development to acquire practical knowledge of the unconventional realm. *Unconventional Oil and Gas Resources: Exploitation and Development* provides a comprehensive understanding of the latest advances in the exploitation and development of unconventional resources. With an emphasis on shale, this book: Addresses all aspects of the exploitation and development process, from data mining and accounting to drilling, completion, stimulation, production, and environmental issues Offers in-depth coverage of sub-surface measurements (geological, geophysical, petrophysical, geochemical, and geomechanical) and their interpretation Discusses the use of microseismic, fiber optic, and tracer reservoir monitoring technologies and JewelSuite's reservoir modeling software Presents the viewpoints of internationally respected experts and researchers from leading exploration and production (E&P) companies and academic institutions Explores future trends in reservoir technologies for unconventional resources development *Unconventional Oil and Gas Resources: Exploitation and Development* aids geologists, geophysicists, petrophysicists, geomechanic specialists, and drilling, completion, stimulation, production, and reservoir engineers in the environmentally safe exploitation and development of unconventional resources like shale.

## Book Information

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"This cornerstone-edited volume sets a benchmark for understanding the complexity of unconventional oil and gas resources. The breath of the topics covered and level within each topic have set a high bar for any future book in this space. If you are in this business, you need to have this book. If you are considering this business, you could stumble without this book. It should be required reading at any university with programs in petroleum science. For those that don't know the two editors, Usman Ahmed and Dr. Nathan Meehan, we are getting a volume that is scrutinized by two top-class industry scientists with vast technology insight who know the topics covered. In my judgment, if you could only have one book on this topic, this is it."

Raymond Levey, Director, Energy and Geoscience Institute, University of Utah, Salt Lake City, USA

"The authors should be commended for carefully and painstakingly assembling this comprehensive collection of background data, methods, and workflows current to the industry with insight into potential areas of ongoing research and investigations (e.g., emerging resource areas, formation evaluation, data analytics, etc.). For the practitioner, this text serves as a valuable reference tool and guide. For the researcher, this text provides insight into current methods and workflows, and aids further investigations into emerging areas of unconventional resources. Finally, this text is an invaluable resource to accompany advanced undergraduate and postgraduate unconventional resources coursework and lectures. Heretofore, a comprehensive unconventional resources text such as this has been unavailable."

Dr. Raymond Johnson, Jr., Senior Lecturer, University of Queensland, and Adjunct Associate Professor, University of Adelaide, Australia

Usman Ahmed is CTO of unconventional oil and gas resources technology and executive technical advisor to WellDog, and more recently, vice president and chief reservoir engineer at Baker Hughes. He previously worked for Schlumberger, TerraTek, and his own reservoir and production engineering consulting firm, Energy Resources International. He has two patents and more than three decades of petroleum engineering experience. He is a Society of Petroleum Engineers (SPE) distinguished member, a recognized technical and professional industry leader, and the author and coauthor of more than 100 industry papers and textbooks. He was an SPE distinguished speaker in 2004-2005 and 2013-2014, and has been invited to numerous events as a keynote speaker and panelist. He holds a B.Sc. and M.Sc. in petroleum engineering from Texas A&M University. D.

Nathan Meehan serves as senior executive advisor to Baker Hughes. He was previously president of CMG Petroleum Consulting, vice president of engineering for Occidental Oil and Gas, and general manager of exploration and production services for Union Pacific Resources. He was recently elected the 2016 president of the Society of Petroleum (SPE) Engineers. He is an SPE distinguished member with more than 38 years of experience in reservoir engineering, reserve estimation, hydraulic fracturing, and horizontal wells. He holds a B.Sc. in physics from the Georgia Institute of Technology, M.Sc. in petroleum engineering from the University of Oklahoma, and Ph.D. in petroleum engineering from Stanford University. Widely published and highly decorated, Dr. Meehan is a licensed professional engineer in four states.

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