Gas Reservoir Engineering John Lee

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gas reservoir engineering provides the undergraduate as well as the graduate student with an introduction to fundamental problem solving in gas reservoir engineering through practical equations and methods although much oil well technology applies to gas wells many differences exist this book helps students understand and recognize these differences to enable appropriate handling of gas reservoir problems natural gas production has become increasingly important in the u s and the wellhead revenue generated from it is now greater than the wellhead revenue generated from oil production because this trend eventually will be followed worldwide we feel that it is important to emphasize gas reservoir

engineering courses at the undergraduate level and to have a textbook devoted to this purpose this book also serves as an introduction to gas reservoir engineering for graduate students and practicing petroleum engineers although much of the technology for oil wells applies to gas wells there are still many differences it is important to learn these differences and to have a good fundamental background in how to recognize and handle them we have tried to provide practical equations and methods while emphasizing the fundamentals on which they are based we have not attempted to be complete in the sense of presenting the best known solution s to all problems in this area of technology in many cases we didn t even present the problem much less a solution instead we concentrated on fundamentals and hope to have made the literature in gas reservoir engineering more accessible both now and in the future if you don t find your favorite topic in the table of contents or in the index it simply didn t make our short list of fundamentals that we believed to be key parts of the literature

reservoir engineers today need to acquire more complex reservoir management and modeling skills principles of applied reservoir simulation fourth edition continues to provide the fundamentals on these topics for both early and seasoned career engineers and researchers enhanced with more practicality and with a focus on more modern reservoir simulation workflows this vital reference includes applications to not only traditional oil and gas reservoir problems but specialized applications in geomechanics coal gas modelling and unconventional resources strengthened with complementary software from the author to immediately apply to the engineer s projects principles of applied reservoir simulation fourth edition delivers knowledge critical for today s basic and advanced reservoir and asset management gives hands on experience in working with reservoir simulators and links them to other petroleum engineering activities teaches on more specific reservoir simulation issues such as run control tornado plot linear displacement fracture and cleat systems and modern modelling workflows updates on more advanced simulation practices like eor petrophysics geomechanics and unconventional reservoirs

the job of any reservoir engineer is to maximize production from a field to obtain the best economic return to do this the engineer must study the behavior and characteristics of a petroleum reservoir to determine the course of future development and production that will maximize the profit fluid flow rock properties water and gas coning and relative permeability are only a few of the concepts that a reservoir engineer must understand to do the job right and some

of the tools of the trade are water influx calculations lab tests of reservoir fluids and oil and gas performance calculations two new chapters have been added to the first edition to make this book a complete resource for students and professionals in the petroleum industry principles of waterflooding vapor liquid phase equilibria

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the development of tight gas reservoirs over the last half century has profoundly affected and expanded the petroleum industry moreover our improved understanding of tight gas reservoirs from finding characterizing testing modeling and developing them to producing their resources economically can be felt not only throughout our industry but also throughout our economy and indeed our daily routines abundant reliable and inexpensive natural gas has truly transformed many aspects of our modern lifestyles within the last decade for example the world has made great strides in switching from coal fired to gas fired electricity generation with a resulting reduction of us co2 emissions of 14 since 2005 our expanded knowledge of natural gas development and production has further advanced the goal of achieving energy independence transforming the us from a gas importer into the third largest liquid natural gas lng exporter in the world it is truly hard to overstate the efficacy of our understanding and exploitation of tight gas reservoirs the four parts contained in this book methodically and comprehensively unfold the technical elements of developing tight gas reservoirs they are written with an industry wide audience in mind to help the student

understand fundamental concepts to provide comprehensive reference material for the experienced engineer for the practitioner in the field looking for case studies and analogues for those readers curious of mathematical detail and theory where it will surely lay the foundation for many future academic investigations and doctoral theses this book is comprehensive enough to apply equally to those readers interested in tight oil reservoirs common fundamentals many similar concepts just larger molecules this book s organization supports its methodological approach part 1 introduces tight gas resources including definitions and beginning concepts thorough analyses of tight gas resource types conventional shale and coalbed methane and their geographical distribution and reserves are given this part describes shale gas plays within north america in detail part 2 begins where the study of all reservoirs begin with detailed characterization chapters within this part discuss geological considerations over various scales as well as detailed concepts in well testing and modeling to determine necessary formation properties part 3 details all aspects of designing planning modeling and executing hydraulic fracture treatments and provides details on fracture initiation geometry and propagation part 4 contains 23 case histories of tight gas reservoir development

presents key concepts and terminology for a multidisciplinary range of topics in petroleum engineering places oil and gas production in the global energy context introduces all of the key concepts that are needed to understand oil and gas production from exploration through abandonment reviews fundamental terminology and concepts from geology geophysics petrophysics drilling production and reservoir engineering includes many worked practical examples within each chapter and exercises at the end of each chapter highlight and reinforce material in the chapter includes a solutions manual for academic adopters

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