1. Record Nr. UNISA996202982603316 Autore Guo Boyun Titolo Well productivity handbook: vertical, fractured, horizontal, multilateral, and intelligent wells / / Boyun Guo, Kai Sun, Ali Ghalambor Pubbl/distr/stampa Houston, Texas: ,: Gulf Publishing Company, , 2008 ©2008 0-12-799992-2 **ISBN** Descrizione fisica 1 online resource (367 p.) Disciplina 622.338 622/.338 Soggetti Oil wells Gas wells Oil reservoir engineering Gas reservoirs Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references at the end of each chapters and Nota di bibliografia index. Nota di contenuto Front Cover; Well Productivity Handbook: Vertical, Fractured, Horizontal, Multilateral, and Intelligent Wells; Copyright Page; Dedication; Table of Contents; Preface; List of Symbols; List of Figures; List of Tables; Chapter 1. Introduction; 1.1 Wells and Reservoirs; 1.2 Well Productivity; 1.3 About This Book; 1.4 Summary; 1.5 References; 1.6 Problems; Chapter 2. Properties of Petroleum Fluids; 2.1 Introduction; 2.2 Petroleum Fluids; 2.3 Properties of Oil; 2.4 Properties of Natural Gas; 2.5 Properties of Produced Water; 2.6 Summary; 2.7 References; 2.8 Problems Chapter 3. Properties of Petroleum Reservoirs 3.1 Introduction; 3.2 Lithology; 3.3 Reservoir Porosity; 3.4 Reservoir Total Compressibility; 3.5 Reservoir Permeability; 3.6 Effective Permeability; 3.7 Summary; 3.8 References; 3.9 Problems; Chapter 4. Reservoir Deliverability; 4.1 Introduction: 4.2 Vertical Wells: 4.3 Fractured Wells: 4.4 Horizontal Wells: 4.5 Inflow Performance Relationship (IPR): 4.6 Construction of IPR

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## Sommario/riassunto

With rapid changes in field development methods being created over the past few decades, there is a growing need for more information regarding energizing well production. Written by the world's most respected petroleumengineering authors, Well Productivity Handbook provides updated knowledge for modeling oil and gas wells with simple and complex trajectories. Covering critical topics, such as petroleum fluid properties, reservoir deliverability, wellbore flow performance and productivity of intelligent well systems, this handbook explains real-world applications illustrated wi