1. Record Nr. UNINA9911006610003321 Autore Civan Faruk **Titolo** Reservoir formation damage: fundamentals, modeling, assessment, and mitigation / / Faruk Civan Oxford, : Gulf Professional, 2007 Pubbl/distr/stampa **ISBN** 1-280-96256-9 9786610962563 0-08-047143-9 Edizione [2nd ed.] Descrizione fisica 1 online resource (1135 p.) Disciplina 622.338 Hydrocarbon reservoirs Soggetti Petroleum - Geology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Previous ed.: Houston, Tex.: Gulf, 2000. Note generali Nota di bibliografia Includes bibliographical references and index. Front cover; Title page; Copyright page; Table of contents; PREFACE; Nota di contenuto ABOUT THE AUTHOR; 1 OVERVIEW OF FORMATION DAMAGE; Summary; 1.1 INTRODUCTION: 1.2 COMMON FORMATION DAMAGE PROBLEMS, FACTORS, AND MECHANISMS; 1.3 TEAM FOR UNDERSTANDING AND MITIGATION OF FORMATION DAMAGE; 1.4 OBJECTIVES OF THE BOOK; Exercises: PART I Characterization of Reservoir Rock for Formation Damage - Mineralogy, Texture, Petrographics, Petrophysics, and Instrumental Techniques; 2 MINERALOGY AND MINERAL SENSITIVITY OF PETROLEUM-BEARING FORMATIONS; Summary; 2.1 INTRODUCTION; 2.2 ORIGIN OF PETROLEUM-BEARING FORMATIONS 2.3 CONSTITUENTS OF SEDIMENTARY ROCKS2.4 COMPOSITION OF PETROLEUM-BEARING FORMATIONS; 2.5 MINERAL SENSITIVITY OF SEDIMENTARY FORMATIONS; 2.6 MECHANISM OF CLAY SWELLING; 2.7 MODELING CLAY SWELLING; 2.8 CATION EXCHANGE CAPACITY; 2.9

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Reservoir Formation Damage, Second edition is a comprehensive treatise of the theory and modeling of common formation damage problems and is an important guide for research and development, laboratory testing for diagnosis and effective treatment, and tailor-fit-design of optimal strategies for mitigation of reservoir formation damage. The new edition includes field case histories and simulated scenarios demonstrating the consequences of formation damage in petroleum reservoirsFaruk Civan, Ph.D., is an Alumni Chair Professor in the Mewbourne School of Petroleum and Geological Engineer

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