

1. Record Nr.	UNINA9911006983203321
Autore	Nelson Ronald A
Titolo	Geologic analysis of naturally fractured reservoirs // R. A. Nelson
Pubbl/distr/stampa	Boston, : Gulf Professional Pub., c2001
ISBN	1-281-07782-8 9786611077822 0-08-050729-8
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (353 p.)
Disciplina	553.2/8 21 553.28 622.3382
Soggetti	Rocks - Fracture Sedimentary rocks Hydrocarbon reservoirs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Geologic Analysis of Naturally Fractured Reservoirs; Copyright Page; Contents; Acknowledgments; Foreword; Preface; Notation; Chapter 1. Evaluating Fractured Reservoirs: Introduction; Avoid Fracture Denial; The Evaluation Sequence; Basic Types of Evaluation; General Sequence of Study; Fracture System Origin; Fractured Properties Affecting Reservoir Performance; Fracture and Matrix Porosity Communication; Chapter 2. Reservoir Management; Classification of Fractured Reservoirs; Positive Reservoir Attributes; Potential Problems; Strategies of Fractured Reservoir Management Thoughts on Risk Analysis in Fractured Reservoirs Chapter 3. Detecting and Predicting Fracture Occurrence and Intensity; Detection; Prediction of Subsurface Fracture Spacing; Summary; Chapter 4. Analysis of Anisotropic Reservoirs; Stylolites; Development of Permeability Tensors for Anisotropic Reservoirs; Statistical Data in Reservoir Modeling; Stimulation in Fractured Reservoirs; Chapter 5. Analysis Procedures in Fractured Reservoirs; Screening Tools in Defining a Fractured Reservoir; Data Types and Constraints as a Function of When the Fractured Reservoir is Discovered

Core and Outcrop Analysis Pressure and Production Analysis for Quantifying Fracture System Properties; Numerical Modeling in Geology; Appendix A: List of Documented Fractured Reservoirs; Appendix B: Procedures Checklist; Appendix C: Averaging Techniques; Glossary; Conversion Factors; References; Index

---

Sommario/riassunto

Geologists, engineers, and petrophysicists concerned with hydrocarbon production from naturally fractured reservoirs will find this book a valuable tool for obtaining pertinent rock data to evaluate reserves and optimize well location and performance. Nelson emphasizes geological, petrophysical, and rock mechanics to complement other studies of the subject that use well logging and classical engineering approaches. This well organized, updated edition contains a wealth of field and laboratory data, case histories, and practical advice. A great how-to-guide for anyone

---