

Seismic Models of Sandstone Stratigraphic Traps in Rocky Mountain Basins

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Seismic Models Of Sandstone Stratigraphic Traps In Rocky Mountain Basins:

Seismic Models of Sandstone Stratigraphic Traps in Rocky Mountain Basins Robert T. Ryder, Myung W. Lee, Gerald N. Smith, 1981 *Seismic Models of Sandstone Stratigraphic Traps in Rocky Mountain Basins* Robert T. Ryder, *Sand and Sandstone* F. J. Pettijohn, Paul E. Potter, Raymond Siever, 2012-12-06 The first edition appeared fourteen years ago Since then there have been significant advances in our science that warrant an updating and revision of Sand and Sandstone The main framework of the first edition has been retained so that the reader can begin with the mineralogy and textural properties of sands and sandstones progress through their organization and classification and their study as a body of rock to consideration of their origin prove nance transportation deposition and lithification and finally to their place in the stratigraphic column and the basin The last decade has seen the rise of facies analysis based on a closer look at the stratigraphic record and the recognition of characteristic bed ding sequences that are the signatures of some geologic process such as a prograding shallow water delta or the migration of a point bar on an alluvial floodplain The environment of sand deposition is more closely determined by its place in such depositional systems than by criteria based on textural characteristics the fingerprint approach Our revision reflects this change in thinking As in the geological sciences as a whole the concept of plate tectonics has required a rethinking of our older ideas about the origin and accumulation of sediments especially the nature of the sedimentary basins **New Publications of the Geological Survey** Geological Survey (U.S.), 1991 **Compartmentalized Reservoirs in Rocky Mountain Basins** Rocky Mountain Association of Geologists. Symposium, 1998 *Modeling The Earth For Oil Exploration* Klaus Helbig, 2015-07-14 This volume presents an overview of the results of a European Union integrated program in which approximately two hundred earth scientists participated drawn from all fields related to exploration Two classes of modeling were addressed geological modeling the relationship between the conditions of sedimentation and the resulting reservoir conditions and wave propagation modeling the investigation of wave propagation through media of various degrees of complexity Wave propagation modeling was carried out either mathematically or physically with the most modern tools An important aspect of the project was the inversion of seismic data that is the determination of the parameters of the medium from observations This problem is closely related to modeling since it is based on the inversion of the mathematical steps and often uses modeling for verification and updating The geological data presents novel concepts with a coverage that is both broad in area and in discipline The geophysical investigations are at the leading edge of current research Although detailed results have been published separately by investigators this volume is the only source of reference which summarises the results but incorporating sufficient detail to enable the reader to follow the scientific reasoning *Bibliography and Index of Colorado Geology, 1981-1982* , 1983 **Vertical Seismic Profiling : Technique Applications and Case Histories** A. H. Balch, Myung W. Lee, 1984-09-24 **Bibliography and Index of Colorado Geology** , 1984 **Seismic Stratigraphy** Charles E. Payton, 1977 This Memoir

is the result of plans made after the first Research Symposium on Seismic Stratigraphy presented at the 1975 national convention of the American Association of Petroleum Geologists. Selected reports from technical meetings since that time are also included. Foreword

Geological Survey Professional Paper, 1980 **Interaction of the Rocky Mountain Foreland and the Cordilleran Thrust Belt** Christopher J. Schmidt, William J. Perry, 1988 This volume emphasizes the interaction of the Cordilleran thrust belt and Rocky Mountain foreland in studies of regional structural geology, geophysics and sedimentology from west central Montana to Arizona. The volume outlines how the nature of the Rocky Mountain foreland and its deformation affect the geometry of the Cordilleran thrust belt. Many of the structural and geophysical studies reported in this volume also address the question of which structures forland or thrust belt developed first in a specific region and how early formed structures influenced later ones. Several chapters address the nature and style of foreland development.

Sedimentology and Petroleum Geology Knut Bjørlykke, 1989-08-02 This book is intended to give an introduction to sedimentology and petroleum geology at undergraduate level. These two subjects have been treated together because of the close links between sedimentology as an academic discipline, petroleum geology which is the application of sedimentology and a number of other aspects of petroleum exploration and production. The oil industry is by far the most important employer of sedimentologists and the lively interaction that takes place between the academic community and the research laboratories and exploration departments of the oil industry has been very fruitful for both parties. Our knowledge of sedimentary basins now depends to a very large extent on data obtained by commercial petroleum exploration. Studies of actual rocks in outcrops, particularly if they are extensive, will always be important for sedimentologists, but subsurface data like seismic sections and well logs provide us with much information on the three dimensional distribution of facies that we could not otherwise obtain. Subsurface techniques are certainly important for petroleum geologists, but also other sedimentologists should be able to use subsurface data. I have therefore included elementary introductions to the use of well logs and seismic methods in this book with fundamentals of external controls on sedimentation such as basin subsidence and sea level changes. I have tried to present the state of knowledge at this level without referring to the original research papers except when specific data are quoted or used in illustrations.

Petrogenesis and Petrophysics of Selected Sandstone Reservoirs of the Rocky Mountain Region Sanford Sandy Kaplan, 1989 *Mesozoic Systems of the Rocky Mountain Region, USA* Mario V. Caputo, James A. Peterson, Karen J. Franczyk, 1994 Pennsylvanian and Early Permian Paleogeography of the Uinta-Piceance Basin Region, Northwestern Colorado and Northeastern Utah Samuel Y. Johnson, Marjorie A. Chan, Edith Konopka, Geological Survey (U.S.), 1992 **GeoTech '84**, 1984 *Guidebook--1989* Wyoming Geological Association, 1989 Subject Catalog Library of Congress, **Subject Catalog, 1982** Library of Congress, 1982

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