



HANDBOOK OF GEOPHYSICAL EXPLORATION
SEISMIC EXPLORATION

Klaus Helbig and Sven Treitel, Editors

VOLUME 37

Seismic Stratigraphy,
Basin Analysis and
Reservoir Characterisation

by P.C.H. VEEKEN

**Seismic Stratigraphy Basin Analysis And Reservoir
Characterisation Handbook Of Geophysical Exploration
Seismic Exploration By Paul P Veeken 2007 01 03**

R.E. Sheriff



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Seismic Stratigraphy, Basin Analysis and Reservoir Characterisation P.C.H. Veeken, 2006-11-13 The interest in seismic stratigraphic techniques to interpret reflection datasets is well established The advent of sophisticated subsurface reservoir studies and 4D monitoring for optimising the hydrocarbon production in existing fields does demonstrate the importance of the 3D seismic methodology The added value of reflection seismics to the petroleum industry has clearly been proven over the last decades Seismic profiles and 3D cubes form a vast and robust data source to unravel the structure of the subsurface It gets nowadays exploited in ever greater detail Larger offsets and velocity anisotropy effects give for instance access to more details on reservoir flow properties like fracture density porosity and permeability distribution Elastic inversion and modelling may tell something about the change in petrophysical parameters Seismic investigations provide a vital tool for the delineation of subtle hydrocarbon traps They are the basis for understanding the regional basin framework and the stratigraphic subdivision Seismic stratigraphy combines two very different scales of observation the seismic and well control The systematic approach applied in seismic stratigraphy explains why many workers are using the principles to evaluate their seismic observations The here presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology Dynamics of sedimentary environments are discussed with its relation to global controlling factors and a link is made to high resolution sequence stratigraphy Seismic Stratigraphy Basin Analysis and Reservoir Characterisation summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical point of view and are supported by well illustrated case histories The reader student as well as professional geophysicists geologists and reservoir engineers is taken from a basic level to more advanced study techniques Overview reflection seismic methods and its limitations Link between basic seismic stratigraphic principles and high resolution sequence stratigraphy Description of various techniques for seismic reservoir characterization and synthetic modelling Overview inversion techniques AVO and seismic attributes analysis

The British National Bibliography Arthur James Wells, 2009 **Handbook of Geophysical Exploration** Bob A. Hardage, 1987 Seismic Stratigraphy and Depositional Facies Models P.C.H. Veeken, 2013-11-14 The 2e of *Seismic Stratigraphy and Depositional Facies Models* summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical point of view and are supported by well illustrated case histories The reader is taken from a basic level to more advanced study techniques The presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology Dynamics of sedimentary environments are discussed their relation to global controlling factors and a link is made to high resolution sequence stratigraphy The interest in seismic stratigraphic techniques to interpret reflection datasets is well established The

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Seismic Stratigraphy Bob Adrian Hardage,1987 **Seismic Exploration for Sandstone Reservoirs** N.A.

Anstey,2012-12-06 This text was originally written for use with the videotape program of the same title Numbered video cassettes correspond to the following chapters of the book Tape Chapter s Tape Chapter s 1 1 2 2 1 11 3 4 2 2 2 2 3 12 3 5 1 3 5 2 3 2 4 13 3 5 3 4 2 5 2 6 14 3 5 4 3 6 3 5 2 7 2 8 15 3 7 3 7 2 6 3 16 3 8 4 7 3 1 17 4 1 8 3 2 3 2 1 18 4 2 4 4 9 3 2 2 3 2 3 19 5 10 3 3 Complete information about the videotape program *Seismic Exploration for Sandstone Reservoirs* may be obtained from IHRDC 137 Newbury St Boston MA 02116 617 536 0202 Acknowledgements Thanks are expressed to the authors companies and professional associations who have allowed the use of their material in the course The author and publisher are grateful for permission to reproduce material whose copyright belongs as follows Figures 2 4 3 Widess SEG 2 4 4 Prescott Continental Oil Company 3 1 Le Blanc AAPG 3 2 MacKenzie AAPG 3 1 1 Seiscom Delta 3 1 3 Schramm et al AAPG 3 1 4 Lamer et al Western Geophysical Company 3 2 2 2 Prakla Seismos 3 2 2 3 Leung et al Amoco Europe 3 2 2 4 Newman et al S 3 2 3 2 Seiscom Delta 3 3 1 Taner Seiscom Delta 3 **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 *Basin analysis and seismic stratigraphy* William Lawrence Fisher,Leonard Franklin Brown,1979

Seismic Attributes for Prospect Identification and Reservoir Characterization Satinder Chopra,K. J. Marfurt,2007

Introducing the physical basis mathematical implementation and geologic expression of modern volumetric attributes including coherence dip azimuth curvature amplitude gradients seismic textures and spectral decomposition the authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing Seismic attributes play a key role in exploration and exploitation of hydrocarbons In *Seismic Attributes for Prospect Identification and Reservoir*

Characterization SEG Geophysical Developments No 11 the authors introduce the physical basis mathematical implementation and geologic expression of modern volumetric attributes including coherence dip azimuth curvature amplitude gradients seismic textures and spectral decomposition The authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing Examples from different basins illustrate the attribute expression of tectonic deformation clastic depositional systems carbonate depositional systems and diagenesis drilling hazards and reservoir characterization The book is illustrated generously with color figures throughout Seismic Attributes will appeal to seismic interpreters who want to extract more information from data seismic processors and imagers who want to learn how their efforts impact subtle stratigraphic and fracture plays sedimentologists stratigraphers and structural geologists who use large 3D seismic volumes to interpret their plays within a regional basinwide context and reservoir engineers whose work is based on detailed 3D reservoir models Copublished with EAGE Seismic Stratigraphy and Depositional Facies Models Paul C. H. Veeken, Bruno van Moerkerken, 2013 The 2e of Seismic Stratigraphy and Depositional Facies Models summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical point of view and are supported by well illustrated case histories The reader is taken from a basic level to more advanced study techniques The presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology Dynamics of sedimentary environments are discussed their relation to global controlling factors and a link is made to high resolution sequence stratigraphy The interest in seismic stratigraphic techniques to interpret reflection datasets is well established The advent of sophisticated subsurface reservoir studies and 4D monitoring for optimizing the hydrocarbon production in existing fields demonstrate the importance of the 3D seismic methodology The added value of reflection seismics to the petroleum industry has clearly been proven over the last few decades Seismic profiles and 3D cubes form a vast and robust data source to unravel the structure of the subsurface Larger offsets and velocity anisotropy effects give access to more details on reservoir flow properties like fracture density porosity and permeability distribution Elastic inversion and modeling may tell something about the change in petrophysical parameters Seismic investigations provide a vital tool for the delineation of subtle hydrocarbon traps and they are the basis for understanding the regional basin framework and the stratigraphic subdivision Seismic stratigraphy combines two very different scales of observation the seismic and well control The systematic approach applied in seismic stratigraphy explains why many workers are using the principles to evaluate their seismic observations Discusses the link between seismic stratigraphic principles and sequence stratigraphy Provides techniques for seismic reservoir characterization as well as well control Analyzes inversion AVO and seismic attributes **Quantitative Seismic Interpretation** Per Avseth, Tapan Mukerji, Gary Mavko, 2010-06-10 Quantitative Seismic Interpretation demonstrates how rock physics can be applied to predict reservoir parameters such as lithologies and pore fluids from seismically derived

attributes The authors provide an integrated methodology and practical tools for quantitative interpretation uncertainty assessment and characterization of subsurface reservoirs using well log and seismic data They illustrate the advantages of these new methodologies while providing advice about limitations of the methods and traditional pitfalls This book is aimed at graduate students academics and industry professionals working in the areas of petroleum geoscience and exploration seismology It will also interest environmental geophysicists seeking a quantitative subsurface characterization from shallow seismic data The book includes problem sets and a case study for which seismic and well log data and MATLAB codes are provided on a website <http://www.cambridge.org/9780521151351> These resources will allow readers to gain a hands on understanding of the methodologies

Seismic Data Analysis Techniques in Hydrocarbon Exploration Enwenode Onajite, 2013-09-26 *Seismic Data Analysis Techniques in Hydrocarbon Exploration* explains the fundamental concepts and skills used to acquire seismic data in the oil industry and the step by step techniques necessary to extract the sections that trap hydrocarbons as well as seismic data interpretation skills It enhances the ability to interpret seismic data and use that data for basin evaluation structural modeling of a fault reservoir characterization rock physics analysis field development and production studies Understanding and interpreting seismic data is critical to oil and gas exploration companies Arming young geoscientists with a reference that covers the key principles of seismic data analysis will enhance their job knowledge skills and performance A fundamental grasp of seismic data enhances employability and aids scientists in functioning effectively when working with seismic data in industry Edited by a team of petroleum geoscientists with more than 30 years of experience in hydrocarbon exploration and data analysis at O G companies More than 200 figures photographs and illustrations aid in the understanding of the fundamental concepts and techniques used to acquire seismic data Takes an easy to follow step by step approach to presenting the techniques and skills used to extract the geologic sections from acquired seismic data Enhances the geoscientist s effectiveness when using seismic data for field development and other exploration and production studies

Practical Solutions to Integrated Oil and Gas Reservoir Analysis Enwenode Onajite, 2017-05-19 *Practical Solutions to Integrated Oil and Gas Reservoir Analysis Geophysical and Geological Perspectives* is a well timed source of information addressing the growing integration of geophysical geological reservoir engineering production and petrophysical data in predicting and determining reservoir properties These include reservoir extent and sand development away from the well bore characterizations of undrilled prospects and optimization planning for field development As such geoscientists must now learn the technology processes and challenges involved within their specific functions in order to complete day to day activities A broad collection of real life problems and challenging questions encountered by geoscientists in the exploration and development of oil and gas fields the book treats subjects ranging from Basin Analysis to identifying and mapping structures stratigraphy the distribution of fracture and the identification of pore fluids Looking at the well to seismic tie time to depth conversion AVO analysis seismic inversion rock physics and pore

pressure analysis prediction the text examines challenges encountered in these technical areas and also includes solutions and techniques used to overcome those challenges Presents a thorough understanding of the contributions and issues faced by the various disciplines that contribute towards characterizing a wide spectrum of reservoirs Conventional Shale Oil and Gas as well as Carbonate reservoirs Provides a much needed and integrated approach amongst disciplines including geology geophysics petrophysics reservoir and drilling engineering Includes case studies on different reservoir settings from around the world including Western Canadian Sedimentary Basin Gulf of Guinea Gulf of Mexico Milne point field in Alaska North Sea San Jorge Basin and Bossier and Haynesville Shales and others to help illustrate key points **Seismic Stratigraphy** R.E. Sheriff, 2012-12-06 Every little wiggle has a meaning all its own This is our underlying faith that details of seismic waveshapes can tell us the details of the nature of the earth But their voices are obscured by many irrelevancies They speak in a high noise environment and we have been able to decipher only a small portion However things are looking up better techniques are lessening the irrelevancies and we are learning to read In exploration of unknown areas determining the nature of the rocks present is often the difficult aspect Most of the properties of rocks that can be measured at a distance are not distinctive enough to identify the rock unambiguously Conventionally seismic data are used to determine aspects of the structure Stratigraphic pictures are inferred from the structure the nature of rocks exposed for examination in the surrounding area and regional concepts Three points make seismic stratigraphy feasible now 1 we have better data quality 2 we have begun to systematize analysis procedures and 3 we believe in the geologic significance of waveshape details

Stratigraphic reservoir characterization for petroleum geologists, geophysicists, and engineers Roger M. Slatt, 2006-11-03 Reservoir characterization as a discipline grew out of the recognition that more oil and gas could be extracted from reservoirs if the geology of the reservoir was understood Prior to that awakening reservoir development and production were the realm of the petroleum engineer In fact geologists of that time would have felt slighted if asked by corporate management to move from an exciting exploration assignment to a more mundane assignment working with an engineer to improve a reservoir's performance Slowly reservoir characterization came into its own as a quantitative multidisciplinary endeavor requiring a vast array of skills and knowledge sets Perhaps the biggest attractor to becoming a reservoir geologist was the advent of fast computing followed by visualization programs and theaters all of which allow young geoscientists to practice their computing skills in a highly technical work environment Also the discipline grew in parallel with the evolution of data integration and the advent of asset teams in the petroleum industry Finally reservoir characterization flourished with the quantum improvements that have occurred in geophysical acquisition and processing techniques and that allow geophysicists to image internal reservoir complexities *Seismic Data Interpretation and Evaluation for Hydrocarbon Exploration and Production* Niranjana C. Nanda, 2021-06-24 This book is meant for geoscientists and engineers who are beginners and introduces them to the field of seismic data interpretation and evaluation The exquisite

seismic illustrations and real case examples interspersed in the text help the readers appreciate the interpretation of seismic data in a simple way and at the same time emphasize the multidisciplinary integrated practical approach to data evaluation. A concerted effort has been made for the readers to realize that mindless interpretation of seismic data using sophisticated software packages without having a grasp on the elementary principles of geology and geophysics and coupled with their over reliance on workstations to provide solutions can have appalling results all too very often.

Handbook of Geophysical Exploration. Section 1, Seismic Exploration Klaus Helbig, 1984 **Principles of Sedimentary Basin Analysis** Andrew Miall, 2013-04-17

This book is intended as a practical handbook for those engaged in the task of analyzing the paleogeographic evolution of ancient sedimentary basins. The science of stratigraphy and sedimentology is central to such endeavors but although several excellent textbooks on sedimentology have appeared in recent years little has been written about modern stratigraphic methods. Sedimentology textbooks tend to take a theoretical approach building from physical and chemical theory and studies of modern environments. It is commonly difficult to apply this information to practical problems in ancient rocks and very little guidance is given on methods of observation mapping and interpretation. In this book theory is downplayed and the emphasis is on what a geologist can actually see in outcrops, well records and cores and what can be obtained using geophysical techniques. A new approach is taken to stratigraphy which attempts to explain the genesis of lithostratigraphic units and to de-emphasize the importance of formal description and naming. There are also sections explaining principles of facies analysis, basin mapping methods, depositional systems and the study of basin thermal history so important to the genesis of fuels and minerals. Lastly an attempt is made to tie everything together by considering basins in the context of plate tectonics and eustatic sea level changes.

Seismic and Sequence Stratigraphy and Integrated Stratigraphy Gemma Aiello, 2017-12-06. This book contains six chapters dealing with the investigation of seismic and sequence stratigraphy and integrated stratigraphy including the stratigraphic unconformities in different geological settings and using several techniques and methods including the seismostratigraphic and the sequence stratigraphic analysis, the field geological survey, the well log stratigraphic interpretation and the lithologic and paleobotanical data. Book chapters are separated into two main sections: i) seismic and sequence stratigraphy and ii) integrated stratigraphy. There are three chapters in the first section including the application of sequence and seismic stratigraphy to the fine grained shales to the fluvial facies and depositional environments and to the Late Miocene geological structures offshore of Taiwan. In the second section there are three chapters dealing with the integrated stratigraphic investigation of Jurassic deposits of the southern Siberian platform with the stratigraphic unconformities reviewing the related geological concepts and studying examples from Middle Upper Paleozoic successions and finally with the integrated stratigraphy of the Cenozoic deposits of the Andean foreland basin, northwestern Argentina.

Seismic Stratigraphy American Association of Petroleum Geologists, 1977

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