

North Sea Petroleum Geology Glennie

Petroleum Geology of the Southern North Sea Petroleum Geology of Northwest Europe Introduction to the Petroleum Geology of the North Sea Key Issues in Petroleum Geology Petroleum Geology of the Irish Sea and Adjacent Areas The Geology of Scotland, 4th edition Petroleum Geoscience Petroleum Sedimentology Cross Border Themes in Petroleum Geology I: The North Sea Permo-carboniferous Magmatism and Rifting in Europe Geology of Gas and Oil under the Netherlands Structural and Tectonic Modelling and its Application to Petroleum Geology Sandstone Petroleum Reservoirs Applied Micropalaeontology The Petroleum Exploration of Ireland's Offshore Basins Salt in the Earth Sciences Basement Tectonics 9 United Kingdom Oil and Gas Fields Petroleum Geology of the North Sea Dynamics of the Norwegian Margin Karen Ziegler A. J. Fleet K. W. Glennie F. John Gregory Neil S. Meadows N. H. Trewin Jon G. Gluyas Winfried Zimmerle S. Patruno B. Marjorie Wilson H.E. Rondeel R.M. Larsen John H. Barwis J.M. Jenkins Geological Society of London Webster Mohriak M.J. Rickard G. Goffey K. W. Glennie Geological Society of London

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a review of the extensive advances made in the understanding the petroleum geology of the atlantic margin of northwest europe of the north sea and of adjacent areas since the ast conference in 1992 in particular the volume focuses on the development of and application of 3d seismic time lapse 4d and other innovative seismic tools the ongoing refinement of sequence and other stratigraphic approaches including the integration of detailed biostratigraphic data the development of modelling at both the reservoir and basin scale which can respond to new data acquisition and be used to assess uncertainties at the reservoir scale and scenarios at the basin scale

this book is the outcome of a two day short course held annually in london and is based on the manual distributed to the participants the book falls into three broad sections the first is a summary of the history of exploration in the north sea followed by a review of the structural framework and pre permian development of the region the second section is a series of descriptions in stratigraphical order of the depositional history and hydrocarbon related rock units from the permian to the tertiary the last section brings the material together with a discussion of the various exploration plays why the oil and gas is where it is what of the future

this volume contains a compilation of 17 seminal papers taken from various geological society special publications and the journal of the geological society on the use and application of stratigraphy in petroleum geology over the last 20 years the volume focuses on case studies in fundamental stratigraphy applied and integrated stratigraphy and alternative methods of

stratigraphy the book is introduced with an original scientific and historical review of the subject all papers are set in context with both the benefits of the techniques and some of the short comings highlighted by compiling these papers commercial stratigraphers john gregory philip copestake and julian pearce have created a volume intended for a wide readership however it is of particular relevance for the training of undergraduate students studying courses on petroleum geology basin development and sequence stratigraphy as well as for all postgraduate students working in petroleum related scientific fields it is also intended as a volume of general use for geoscientists entering the petroleum industry as well as current workers requiring an overview

this text provides a snap shot of current understanding on the petroleum geology of the east irish sea and adjacent areas

this 4th edition of the geology of scotland is greatly expanded from the previous edition with 34 authors contributing to 20 chapters a new format has been adopted to provide a different perspective on the geology of scotland a brief introduction is followed by a chapter outlining some of the important historical aspects that in the 19th century placed scottish geologists in the forefront of a new science scotland is constructed from a number of terranes that finally combined in roughly their present positions prior to about 410 million years ago thus the geology of each terrane is described up the time of amalgamation providing chapters on the southern uplands midland valley highlands grampian and hebridean terranes at the end of this section a brief synthesis summarizes the events that resulted in the amalgamation of the various terranes into the present configuration traditional practice is followed in the description of the old red sandstone carboniferous permo trias jurassic cretaceous tertiary and quaternary strata a separate chapter covers tertiary igneous rocks an attempt is made to tell the story of the geological evolution of scotland rather than catalogue all areas and formations priority is given to the onshore geology encouraging the reader to go into the field and visit some of the world class geology on show in scotland the chapters are broadly based attempting to integrate the sedimentary and igneous histories and summarize changes in palaeogeography and palaeoenvironments economic aspects are covered with chapters on metalliferous minerals bulk resources coal and hydrocarbons a new departure is the chapter on aspects of environmental geology and sustainability additionally this publication contains a colour section of 32 plates illustrating aspects of scottish geology as well as a coloured geological map of scotland

petroleum geoscience is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas uniquely this book is structured to reflect the sequential and cyclical processes of exploration appraisal development and production chapters dedicated to each of these aspects are further illustrated by case histories drawn from the authors experiences petroleum geoscience has a global and geo temporal backdrop drawing examples and case histories from around the world and from petroleum systems ranging in age from late pre cambrian to pliocene in order to show how geoscience is integrated at all levels within the industry the authors stress throughout the links between geology and geophysics on the one hand and drilling reservoir engineering petrophysics petroleum engineering facilities design and health safety and the environment on the other petroleum geoscience is designed as a practical guide with the basic theory augmented by case studies from a wide spread of geographical locations covers all the key aspects of the origin of petroleum exploration and production it takes account of the modern emphasis on the efficient utilisation of reserves on new methods in exploration such as 3 d seismics book takes value chain approach to petroleum geoscience first new text on petroleum geology for geology undergraduates to be published in the last ten years packed full of real life case studies from petroleum industry

knowledge of the principles and methods of petroleum sedimentology is essential for oil and

gas exploration and exploitation this book is designed as an introductory text for students in petroleum geology and applied sedimentology as well as a useful companion for advanced technicians explorationists geophysicists and petroleum engineers source rock lithology and type of trap define the quality of a hydrocarbon accumulation this interrelationship is exemplified by seven case histories worldwide nw europe saudi arabia u s a mexico cis china moreover successful exploitation and enhanced oil recovery often depend on an adequate knowledge of the sedimentology of a reservoir photographs illustrate macroscopic and microscopic aspects of source rocks as well as reservoir sandstones and limestones that are most important for hydrocarbon exploration a comprehensive list of references encourages further study

a cross border approach to exploration appraisal and development is important in mature basins such as the north sea where the low hanging fruit have long gone this approach emphasizes the need to see the basin as one geological entity in order to maximize economic recovery and prepare the area for the energy transition this volume offers an up to date geology without borders view of the stratigraphy sedimentology tectonics and oil and gas exploration trends of the entire north sea basin along with the challenges associated with differences in data continuity and nomenclature across median lines this volume includes overviews of cross border play statistics lithostratigraphic naming conventions and exploration performance through to new facies models for cross border areas as such this volume will be a valuable reference for every geoscientist working in the north sea for years to come

contains 21 papers on the petroleum geology of the netherlands combining work by the industry the geological survey and universities the wide range of topics presented includes reservoir characterization through 3d seismic and borehole log evaluation of single oil and gas fields as well as reviews of the hydrocarbon habitat in the west netherlands basin and of the regional rotliegend facies distribution published in association with the royal geological and mining society of the netherlands knngm which hosted the 1993 international conference in the hague of the american association of petroleum geologists the papers were prepared for this conference audience staff engaged in hydrocarbon exploration and production in the north sea area others who need to know about the results of this exploration and production in the netherlands

this monograph presents a unique combination of structural and tectonic modelling with applied petroleum geological problems focussing on the norwegian continental shelf and neighbouring areas it includes discussion covering all scales from development of sedimentary basins to formation of fractures and joints on a microscale and from exploration to the exploitation of hydrocarbons the book s coverage of structural and tectonic modelling petroleum geology applications and the treatment of the norwegian continental shelf should make this book an invaluable resource book for advanced students of structural and tectonic modelling teachers and researchers as well as for geologists and geophysicists in the petroleum industry

sandstone petroleum reservoirs presents an integrated multidisciplinary approach to the geology of sandstone oil and gas reservoirs twenty two case studies involving a variety of depositional settings tectonic provinces and burial diagenetic histories emphasize depositional controls on reservoir architecture petrophysical properties and production performance an introductory section provides perspective to the nature of reservoir characterization and highlights the important questions that future studies need to address a reservoir summary following each case study aids the reader in gaining quick access to the main characteristics of each reservoir this casebook is heavily illustrated and most data have not been previously published the intended audience comprises a broad range of practicing earth scientists including petroleum geologists geophysicists and engineers readers will value the integration of geological versus engineering interests provided here and will be enabled to improve exploration and production results

seven original case studies are presented in this volume each describing the application of micropaleontology and palynology in applied geology 1 a study of the modern distribution of coccolith sedimentation in the north sea and its potential for future application in basin analysis 2 ostracods are shown to be good paleoenvironmental indicators in the early cretaceous and tertiary 3 a biogenic gas seep in the north sea is shown to be marked by diagnostic benthonic foraminifera 4 in the north sea hydrocarbon exploration integrated studies of micropaleontology have provided invaluable data 5 palynofacies analysis are shown to be vital in determining depositional events and hydrocarbon source rock potential 6 the application of paleontology and sedimentology to sequence stratigraphy is demonstrated in the early cretaceous and 7 the application of micropaleontology is shown to be an essential tool in both engineering and economic geology most chapters have been prepared by earth scientists from industry the study of microfossils presented in this book provides invaluable data for stratigraphers petroleum geologists and for engineers and economic geologists working in hydrocarbon exploration and basin analysis

this text covers a wide range of exploration topics from the regional to the field scale it provides new information on neogene to recent stratigraphy and sedimentation in the north atlantic a significant amount of exploration has taken place since the publication of geological society special publication no 93 in 1995

a comprehensive review of giant salt basins salt tectonic events and their global implications salt is formed when water rich in evaporite minerals accumulates on the earth's surface and then evaporates over time pressure and tectonics change the structure and shape of salt layers recent technological advances have improved the interpretation and modeling of subsurface salt structures salt in the earth sciences basin analysis and salt tectonics presents a global overview of giant salt basins formed under diverse tectonic settings connecting salt deposition with tectonic events climate change and more volume highlights include stratigraphic and structural features of giant salt basins theories for the origin of salt giants and their deep crustal architecture accumulations of hydrocarbon resources in salt basins global examples of giant salt basins salt and shale tectonic models including salt and mud diapirism magmatism and salt dissolution correlations with plate tectonics climate changes global glaciations and major volcanic events extreme environments associated with evaporite deposition on earth and other planets of the solar system browse the other volume in this set salt in the earth sciences evaporite rocks and salt deposition the american geophysical union promotes discovery in earth and space science for the benefit of humanity its publications disseminate scientific knowledge and provide resources for researchers students and professionals

the ninth international conference on basement tectonics was held at the australian national university in canberra 26 july 1990 the opening keynote address was given by prof r w r rutland director of the bureau of mineral resources other keynote speakers were e s t o driscoll an australian consultant and prof p bankwitz central institute for physics of the earth potsdam gdr technical sessions were arranged by session conveners on the following five topics i the structure of the australian craton and cover basins ii basement structure of continental regions iii structural patterns and mineral deposits iv techniques for analysing basement structures v structural patterns in oceanic crust the arrangement of papers for this proceedings volume has been simplified part 1 deals with australia part 2 with other areas and part 3 lists the titles of all the papers read at the conference abstracts of these papers are available in geological society of australia abstracts no 26 and may be purchased for \$10 from the geological society of australia office ana house 301 george street sydney nsw 2000 field trips to view aspects of the lachlan fold belt and the sydney basin were assisted by h j harrington d branagan d wyborn b drummond and m j rick d a longer field trip aborted through low enrolments was organized by h j harrington with assistance from w preiss n cook r glenn a grady and p james this assistance is gratefully acknowledged

geological society memoir 52 records the extraordinary 50 year journey that has led to the development of some 458 oil and gas fields on the ukcs it contains papers on almost 150 onshore and offshore fields in all of the uk s main petroliferous basins these papers range from look backs on some of the first developed gas fields in the southern north sea to papers on fields that have only just been brought into production or may still remain undeveloped and includes two candidate co2 sequestration projects these papers are intended to provide a consistent summary of the exploration appraisal development and production history of each field leading to the current subsurface understanding which is described in greater detail as such the memoir will be an enduring reference source for those exploring for developing producing hydrocarbons and sequestering co2 on the ukcs in the coming decades it encapsulates the petroleum industry s deep subsurface knowledge accrued over more than 50 years of exploration and production

since the 3rd edition of this publication emphasis within the petroleum industry has shifted from exploration to appraisal and development of existing hydrocarbon resources this change is reflected in this new 4th edition which has been significantly expanded to accomodate additional material the centrepiece of the book however remains a series of descriptions in stratigraphic order of the depositional history and hydrocarbon related rock units of the north sea

the papers and research results presented here have been prepared as part of the integrated basin studies project this project had the objective of studying the lithospheric and upper crustal processes governing the formation and evolution of extensional and foreland basins and to decipher the role of tectonics sea level and sedimentary processes in the filling of such basins the dynamics of the norwegian margin module focused on the rifted sedimentary basins of the northern north sea and off mid norway this prolific hydrocarbon province has an extensive industry and scientific database and offers a unique opportunity to study fundamental earth processes from failed rifting to crustal breakup and accretion of oceanic crust a set of new models for basin formation and filling has been derived including linking of sedimentary basin faulting to lower crustal deformation signature and variability of syn rift infill correlation of mineralogy to seismic signature nature and characteristics of volcanic margin formation and distribution of present day stress field

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