

# North Sea Petroleum Geology Glennie

Introduction to the Petroleum Geology of the North Sea  
Petroleum Geology of the Southern North Sea  
Petroleum Geology of the North Sea  
Petroleum Geology of Northwest Europe  
The Geology of Scotland, 4th edition  
Regional Petroleum Geology of the World: Europe and Asia  
Structural and Tectonic Modelling and its Application to Petroleum Geology  
Petroleum Geology of NW Europe  
The Petroleum Geology of Ireland's Offshore Basins  
Petroleum Geology of the Persian Gulf  
Petroleum Geology of Northwest Europe  
Sedimentary Environments  
Offshore Norway-Palaeozoic to Recent  
Petroleum Sedimentology  
The Geology of the Northern North Sea  
Classic Petroleum Provinces  
Geology of the Humber Group  
The Development, Evolution and Petroleum Geology of the Wessex Basin  
Salt in the Earth Sciences  
Petroleum Geology  
Basins on the Atlantic Seaboard  
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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

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

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 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

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

required reading for geologists working in the offshore areas volume 10 continues the series from the norwegian petroleum society this work provides an up to date review of the late palaeozoic to present sedimentary history of the norwegian offshore areas in the north sea and mid norway basins case studies overview articles and analogue examples from adjacent areas such as greenland and denmark present new ideas on the development of the norwegian margin from the carboniferous through the mesozoic and cenozoic in particular new evidence and interpretations are presented on well known major reservoir bearing successions such as the statfjord formation and dunlin group in the northern north sea and the Åre and the tilje formations in the mid norway area furthermore the upper jurassic succession in the haltenbanken area is described giving new evidence on the interplay between extensional tectonics and sedimentation during the second major rift phase in the area the cretaceous and cenozoic periods are treated extensively showing their importance as overall deep water sedimentary systems with proven and potential reservoir rocks such as in the ormen lange field and for causing burial of jurassic rocks to advantageous depths for hydrocarbon generation the recent sedimentary history of the norwegian margin is treated with examples of the glacial history and giant submarine slides which understanding is vital for the placement of offshore installations the book is organised based on geologic time from palaeozoic through mesozoic to cenozoic examples it includes a set of palaeogeographic maps from the carboniferous through to the cenozoic in addition there are numerous examples of core photographs well log data

correlation panels and seismic as well as outcrop photographs and logs from the analogue examples comprehensive reference and keyword lists are also included

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

this report covers the northern most part of the north sea from 58deg n to around 62deg n and from the shetland islands to the united kingdom norwegian median line

in recent years new data new understandings new interpretations applications of modern concepts and re evaluation of these new mature areas field and basins have resulted in the discovery of major new hydrocarbon accumulations this book consist of 30 such papers with 457 illustrations plus 21 colour illustrations cover

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

accompanying dvd rom includes links between the text and an extensive selection of core photographs and seismic animations illustrating the many exploration models described

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