

# North Sea Petroleum Geology Glennie

Introduction to the Petroleum Geology of the North Sea Petroleum Geology of the North Sea The Petroleum Geology of Ireland's Offshore Basins Petroleum Geology of the Persian Gulf Petroleum Geology of Northwest Europe The Development, Evolution and Petroleum Geology of the Wessex Basin Structural and Tectonic Modelling and Its Application to Petroleum Geology Petroleum Sedimentology The Geology of the Northern North Sea Petroleum Geology Geology of the Humber Group Petroleum Geology of Northwest Europe Classic Petroleum Provinces Tectonics and Seismic Sequence Stratigraphy Developments in Petroleum Geology The Geology of Scotland Petroleum Geology of NW Europe Tectonic Evolution of the North Sea Rifts Geology of the Humber Group The Geology and Tectonics of the Oman Region *K. W. Glennie K. W. Glennie P. F. Croker Fereydoun Ghazban J. R. Parker John R. Underhill R. M. Larsen Winfried Zimmerle H. Johnson (et al.) Anthony G. Dorland Andrew Hurst A. J. Fleet James Brooks G. D. Williams George Douglas Hobson N. H. Trewin J. Brooks Derek John Blundell Geological Society of London A. H. F. Robertson*

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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

hardbound 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

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

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

an extensive review of the advances made in understanding the petroleum geology of the atlantic margin is provided in this report it includes the development and application of innovative seismic tools and stratigraphic approaches

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

this volume presents an up to date account of the development of the north sea rift system and its associated sedimentary basins with contributions by

leading researchers the work examines tectonic and palaeogeographic development using evidence from proposed crustal models and discusses the geological mechanism of rifting and its influence on the structure and patterns of sedimentation in the basins and their bearing on the potential for oil and gas accumulation a comprehensive gravity map is included

the papers in this volume look at the basin evolution stratigraphy exploration and field development of the central graben and moray forth in the uk the specific subjects covered include the application of sequence stratigraphy in the region the mineralogy of upper jurassic sandstones facies characteristics and controls reservoir quality architecture and diagenesis biomarker maturity profiles appraisals of puffin ivanhoe rob roy and hamish fields

proceedings of an international discussion meeting held at the royal society of edinburgh from march 29 31st 1988 sponsored by the geological society of london and amoco production company international

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