

# North Sea Petroleum Geology Glennie

Introduction to the Petroleum Geology of the North Sea  
Petroleum Geology of the Black Sea  
Regional and Petroleum Geology of the Black Sea and Surrounding Region  
Petroleum Geology of the Southern North Sea  
Petroleum Geology of the North Sea  
Elements of Petroleum Geology  
Petroleum Geology of the Irish Sea and Adjacent Areas  
Cross Border Themes in Petroleum Geology I  
Petroleum Geology of the South Caspian Basin  
Cross-border Themes in Petroleum Geology I  
Petroleum Geology  
Petroleum Geology and Resources of Southeastern Mexico, Northern Guatemala, and Belize  
Petroleum Geology of the Southeastern North Sea and the Adjacent Onshore Areas  
Petroleum Geoscience  
Petroleum Geology for Geophysicists and Engineers  
Sedimentology and Petroleum Geology  
Cross-border Themes in Petroleum Geology  
Petroleum Geology of the North Sea  
Exploration & Production in a Mature Basin  
Key Issues in Petroleum Geology  
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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

the black sea remains one of the largest underexplored rift basins in the world future success is dependent on a better understanding of a number of geological uncertainties these include reservoir and source rock presence and quality and the timing of migration of hydrocarbons relative to trap formation an appreciation of the geological history of the black sea basins and the surrounding orogens is therefore key the timing of basin formation uplift of the margins and of facies distribution remain issues for robust debate this special publication presents the results of 15 studies that relate to the tectono stratigraphy and petroleum geology of the black sea the methodologies of these studies encompass crustal structure geodynamic evolution stratigraphy and its regional correlation petroleum systems source to sink hydrocarbon habitat and play concepts and reviews of past exploration they provide insight into the many ongoing controversies concerning black sea regional geology and provide a better understanding of the geological risks that must be considered for future hydrocarbon exploration

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

this third edition of elements of petroleum geology is completely updated and revised to reflect the vast changes in the field since publication of the second edition this book is a useful primer for geophysicists geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area it is also an excellent introductory text for a university course in petroleum geoscience elements of petroleum geology begins with an account of the physical and chemical properties of petroleum reviewing methods of petroleum exploration and production these methods include drilling geophysical exploration techniques wireline logging and subsurface geological mapping after describing the temperatures and pressures of the subsurface environment

and the hydrodynamics of connate fluids selley examines the generation and migration of petroleum reservoir rocks and trapping mechanisms and the habit of petroleum in sedimentary basins the book contains an account of the composition and formation of tar sands and oil shales and concludes with a brief review of prospect risk analysis reserve estimation and other economic topics updates the second edition completely reviews the concepts and methodology of petroleum exploration and production written by a preeminent petroleum geologist and sedimentologist with decades of petroleum exploration in remote corners of the world contains information pertinent to geophysicists geologists and petroleum reservoir engineers updated statistics throughout additional figures to illustrate key points and new developments new information on drilling activity and production methods including crude oil directional drilling thermal techniques and gas plays added coverage of 3d seismic interpretation new section on pressure compartments new section on hydrocarbon adsorption and absorption in source rocks coverage of the orinoco heavy oil belt of venezuela updated chapter on unconventional petroleum

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

a cross border approach to exploration appraisal and development is important in mature areas such as the atlantic margin and in frontier areas such as the barents sea an approach of this nature emphasizes the need to see the basin as one geological entity 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 and tectonics trends in these areas it also looks at the challenges associated with differences in data continuity and nomenclature across median lines a companion volume sp494 cross border themes in petroleum geology i the north sea provides a similar cross border analysis for the north sea basin across the offshore boundaries of germany the netherlands norway and the uk cross border themes in petroleum geology ii atlantic margin and barents sea will be a valuable reference for every geoscientist working in the atlantic margin and the barents sea for years to come

geology of azerbaijan and the south caspian basin mud volcanoes regional distribution of oil and gas lithostratigraphic framework onshore oil and gas fields offshore oil and gas fields

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

petroleum geology

petroleum geoscience comprises those geoscientific disciplines which are of greatest significance for the exploration and recovery of oil and gas these include petroleum geology of which sedimentary geology is the main foundation along with the contextual and modifying principles of regional tectonic and structural geology additionally biostratigraphy and micropalaeontology organic geochemistry and geophysical exploration and production techniques are all important tools for petroleum geoscientists in the 21st century this comprehensive textbook present an overview of petroleum geoscience for geologists destined for the petroleum industry it should also be useful for students interested in environmental geology engineering geology and other aspects of sedimentary geology

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 in 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

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 atlantic margin and barents sea basin the challenges associated with data continuity and nomenclature differences across median lines are discussed and mitigated examples of under exploited cross border plays and discoveries are discussed

this publication contains the presentations and slides from the exploration production in a mature basin north sea petroleum geology conference held by the pesgb petroleum exploration society of great britain on april 13 2008 in london since this conference the pesgb has undergone a name change and is now called gesgb geoscience energy society of great britain

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

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