

# North Sea Petroleum Geology Glennie

Introduction to the Petroleum Geology of the North Sea Regional and Petroleum Geology of the Black Sea and Surrounding Region Petroleum Geology of the Black Sea Petroleum Geology of the Southern North Sea Petroleum Geology of Northwest Europe Cross-border Themes in Petroleum Geology I Cross Border Themes in Petroleum Geology II Petroleum Geology of the North Sea Petroleum Geology of the Irish Sea and Adjacent Areas Petroleum Geoscience Petroleum Geology of the South Caspian Basin Petroleum Geology of the Southeastern North Sea and the Adjacent Onshore Areas Petroleum Geology Elements of Petroleum Geology Sedimentology and Petroleum Geology Introduction to Petroleum Geology Cross-border Themes in Petroleum Geology Petroleum Geoscience Introduction to Petroleum Exploration for Non-geologists Petroleum Geology and Resources of Southeastern Mexico, Northern Guatemala, and Belize K. W. Glennie Andrew G. Robinson M.D. Simmons Karen Ziegler A. J. Fleet Stefano Patruno D. Chiarella K. W. Glennie Knut Bjørlykke L. Buryakovsky J.P.H. Kaasschieter R.E. Chapman Richard C. Selley Knut Bjørlykke George Douglas Hobson Domenico Chiarella Jon G. Gluyas Robert Stoneley James A. Peterson

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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

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

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

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

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

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

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

petroleum geology

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 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

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

over 1000 people have attended the three day course on which this book is based since it was instituted in 1981 by japrec joint association for petroleum exploration courses key topics covered in this book are the underlying rationale for exploration essential basic geological and geophysical exploration techniques drilling and logging wells an outline of reservoir geology and what constitutes reserves and all of these topics are brought together in a case history overview of exploration in the north sea the book is fully self explanatory needs no prior knowledge of geology or of exploration techniques and as much as possible avoids the use of technical jargon there is however a lengthy glossary of technical terms that can be used as a reference the appeal of the book extends far beyond the audience originally envisaged for the japrec course anyone interested in finding out what petroleum exploration is all about will enjoy this volume

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