

# 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 North Sea Petroleum Geology of Northwest Europe Petroleum Geology of the Southern North Sea Petroleum Geology of NW Europe Cross-border Themes in Petroleum Geology I Cross Border Themes in Petroleum Geology II Petroleum Geology of the South Caspian Basin Petroleum Geology of the Southeastern North Sea and the Adjacent Onshore Areas Petroleum Geoscience Petroleum Geology Petroleum Geology and Resources of Southeastern Mexico, Northern Guatemala, and Belize Petroleum Geology of the Irish Sea and Adjacent Areas Elements of Petroleum Geology Geology of Gas and Oil under the Netherlands Oil and Gas of the Greater Caspian Area Introduction to Petroleum Geology Key Issues in Petroleum Geology K. W. Glennie M.D. Simmons Andrew G. Robinson K. W. Glennie A. J. Fleet Karen Ziegler B. Levell Stefano Patruno D. Chiarella L. Buryakovsky J.P.H. Kaasschieter Knut Bjorlykke James A. Peterson Richard C. Selley H.E. Rondeel Pinar O. Yilmaz George Douglas Hobson F. John Gregory

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*George Douglas Hobson F. John Gregory*

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

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

published by the geological society on behalf of pgc ltd 1 hardback volume in slipcase the 8th conference on the petroleum geology of nw europe was held in september 2015 and marked the 50th anniversary of the first commercial discovery offshore in the north sea west sole in september 1965 its focus was 50 years of learning a platform for present value and future success and its objective was to provide an update on discoveries developments technologies and geological concepts from the region the 39 extensively illustrated technical papers cover the full width of recent activity and are divided into the following sections plays and fairways play assessment recent successes and learnings from failures infrastructure led exploration and development late life fields re development and the next life onshore exploration and development the proceedings volume follows the format of many of the previous conferences since the first in 1974 collectively these provide a unique documentation of the discovery and development of several nw european hydrocarbon provinces the volume will be of interest to all geoscientists involved in exploration and development in nw europe it provides a fascinating overview of how creativity can continue to reveal hidden resources in an area that has been called mature for at least the last 20 of its 50 year history

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

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

this third edition of elements of petroleum geology is completely updated and revised to reflect the vast changes in the years since publication of the first 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 first edition completely reviews the concepts and methodology of petroleum exploration and production written by a preeminent petroleum geologist and sedimentologist with 30 years of petroleum exploration in remote corners of the world contains information pertinent to geophysicists geologists and petroleum reservoir engineers

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 kngmg 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 publication contains 12 extended abstracts and 6 full length papers that discuss technology development challenges in estimating proven and potential reserves outcrop based studies of potential reservoirs regional tectonics and geodynamic evolution and source rock and stratigraphic analyses of the greater caspian area which throughout time has maintained its position as one of the major petroleum provinces in the world

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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