
North Sea Petroleum Geology

Glennie

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The Geology of Scotland, 4th edition
Introduction to the Petroleum Geology of the North Sea

Classic Petroleum Provinces
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Extensional Tectonics: Regional-scale processes

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Dynamics of Complex Intracontinental Basins

Editions TECHNIP

The papers and research results presented here have been prepared as part of the Integrated Basin Studies project. This

project had the objective of studying the lithospheric and upper crustal processes governing the formation and evolution of extensional and foreland basins and to decipher the role of tectonics, sea level and sedimentary processes in the filling of such basins. The Dynamics of the

Norwegian Margin module focused on the rifted sedimentary basins of the northern North Sea and off Mid-Norway. This prolific hydrocarbon province has an extensive industry and scientific database and offers a unique opportunity to study fundamental earth processes, from failed rifting to crustal breakup

and accretion of oceanic crust. A set of new models for basin formation and filling has been derived, including linking of sedimentary basin faulting to lower crustal deformation, signature and variability of syn-rift infill, correlation of mineralogy to seismic signature, nature and characteristics of volcanic margin formation and distribution of present-day stress field.

Sequence stratigraphy of the Jurassic-Lowermost Cretaceous (Hettangian-Berriasian) of the North

Sea region Geological Society of London
For the geologist, amateur no less than professional, Oman holds endless fascination. Its territory presents extraordinary contrasts: the dramatic arid massifs of the northern jabal and the rolling upland pastures of Dhofar, the sand sea of Ar Rub al Khali, the vast salt pan of the Umm al Harasis, the wild beauty of its promontories and rockscapes. And mark the detail of it all - not merely the visual impact of the rock landscape but the

information locked within or between the rocks - the fossils of marine life high in the mountains, or the oil deep underground, or the brilliantly elaborate crystal forms of its geodes, each of them carrying evidence of the drama of Oman's geological forming æons ago. This second edition of Oman's Geological Heritage, with its wealth of pictures and diagrams, places this absorbing and important field of knowledge within the reach of every reader.
Framing Attention

Springer Science & Business Media
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.

Oman's Geological Heritage JHU Press

This conference was arranged by the Norwegian Petroleum Society in order to commemorate the first 25 years of exploration on the Norwegian Continental Shelf. Sixty papers and posters were presented of which 25

have been selected for this volume. Since the start of exploration activities during the mid 1960's the North Sea has not only proved to be one of the main petroleum provinces in the world, but has also established itself as an excellent laboratory for geoscientific research and application. This development has been stimulated greatly by the openness towards exchange of technical data encouragement by the Norwegian authorities. The objective

of this book is to assess the results of 25 years of exploration in Norway. It focuses on lessons learned from past experiences as well as considering future challenges facing geoscientists in the industry (relating to both exploration and exploitation activities). Included, are papers which assess the status and future trends of exploration in the main geological provinces on the Norwegian Continental Shelf from the Central Graben in the

south to Svalbard and the Russian Arctic in the north. Atlantic Rifts and Continental Margins Elsevier
Discovery of the Arbroath, Montrose and Forties fields initiated intensive exploration of the Tertiary deep-marine play in the North Sea region. Subsequent discoveries demonstrated the success of this play and the geological diversity of the depositional systems. The play is now mature and in many areas the remaining exploration potential is likely to be dominated by

small, subtle traps with a major component of stratigraphic trapping. Economically marginal discoveries need an in-depth understanding of subsurface uncertainty to mitigate risk with limited appraisal wells. Mature fields require detailed geological understanding in the search for the remaining oil. This volume focuses on the regional depositional setting of these deep-marine systems, providing a stratigraphic and palaeogeographical context for exploration,

and development case histories that outline the challenges of producing from these reservoirs. The fields are arranged around the production life cycle, describing the changing needs of geological models as the flow of static and dynamic data refines geological understanding and defines the nature of new opportunities as fields mature.

The BIRPS Atlas

Springer Science & Business Media
Desert sedimentary environments

Dynamics of the Norwegian Margin
Springer Science & Business Media

Sedimentology is a core discipline of earth and environmental sciences. It enquires the origins, transport and deposition of mineral sediment on the Earth's surface. The subject is a link between positive effects arising from the building of relief by tectonics and the negative action of denudation in drainage catchments and tectonic subsidence in sedimentary basins. The

author addresses the principles of the subject, emphasising the advantages of a general science approach and the importance of understanding modern processes. Sedimentology and Sedimentary Basins is not an encyclopaedia, but attempts to stimulate interdisciplinary thought across the whole subject area and related disciplines. The book has been designed to meet the needs of earth and environmental science undergraduates. Reservoir

Compartmentalization

Geological Society of London

Geological Society Memoir 52 records the extraordinary 50+ year journey that has led to the development of some 458 oil and gas fields on the UKCS. It contains papers on almost 150 onshore and offshore fields in all of the UK's main petroliferous basins. These papers range from look-backs on some of the first-developed gas fields in the Southern North Sea, to papers on fields that have only just been

brought into production or may still remain undeveloped, and includes two candidate CO2 sequestration projects. These papers are intended to provide a consistent summary of the exploration, appraisal, development and production history of each field, leading to the current subsurface understanding which is described in greater detail. As such the Memoir will be an enduring reference source for those exploring for, developing, producing hydrocarbons

and sequestering CO2 on the UKCS in the coming decades. It encapsulates the petroleum industry's deep subsurface knowledge accrued over more than 50 years of exploration and production.

Sedimentology and Sedimentary Basins

Springer Science & Business Media

Comprehensive discussion of the role of evaporites in hydrocarbon generation and trapping Excellent introduction in the field

Sand Injectites

Geological Society of

London

Sequence Stratigraphy, presently one of the most rapidly growing areas in geology, is concerned with the documentation and prediction of how sandstones (potential hydrocarbon reservoirs) and shales (potential source rocks) are distributed in time and space within sedimentary basins. The book takes a critical look at some of the sequence stratigraphy concepts, and provides an account of how these have been applied recently in NW Europe

(North Sea, mid Norway and E. Greenland, Barents Sea and Svalbard), mainly in connection with the exploration for oil and gas. There is currently no similar book available.

Petroleum Geology of the Southern North Sea John Wiley & Sons

Over the past two decades there has been increased interest in the availability of hydrocarbon charge through a better understanding of petroleum geochemistry and the identification and characterization of

petroleum source rocks. These rocks are geochemically unique and form under specific sets of circumstances. This book brings together both geologic and geochemical data from fifteen petroleum source rocks, ranging in age from Devonian to Eocene, that would otherwise be widely dispersed in the literature or available only in proprietary corporate databases. Much of this information, presented in either a tabular or graphic fashion, provides the petroleum explorationist

and the geochemist with a framework to establish relationships among various geochemical indices and depositional settings.

Petroleum Geoscience
AAPG

The 30 contributions of this volume cover the main European regions for oil and gas exploration: the North Sea and adjacent areas, the central and eastern Mediterranean including offshore Albania, central and eastern Europe including Poland, Hungary, the Russian

platform and offshore Bulgaria. Main topics are investigations to sequence stratigraphy, 3D-quantitative restoration and balanced structural sections, using the LOCACE equipment. Additional studies deal with a Monte Carlo method for generating models of porosity and permeability, with facies characterization using wireline logs or with petrographic applications of image analysis. As further reading this volume is of significant interest for researchers in

oil and gas industries but also for scientists at universities. *Ancient Sedimentary Environments* Geological Society Publishing House The first North Sea Oil and Gas Reservoirs Conference was held in Trondheim in 1985 as part of the Norwegian Institute of Technology's 75th anniversary celebrations. Favourable reactions from the delegates prompted the Committee to re-run the event some three and a half years later, and it is now intended that the Conference be held on a

regular basis as long as there is a demand for this type of gathering. The objectives of the 1989 Conference, which were broadly similar to those of the previous one, were: (a) to bring together those engaged in various geoscientific and reservoir engineering aspects of North Sea Oil and gas reservoirs in one forum; (b) to demonstrate wherever possible the interdependence of the various disciplines and specializations; (c) to promote innovative, synergistic approaches to

research and development programmes aimed at North Sea conditions; and (d) to reflect current trends in the reservoir sciences. Naturally there was no place for specialist parallel sessions in a Conference aimed at encouraging interdisciplinary integration and awareness.

Tertiary Deep-Marine Reservoirs of the North Sea Region John Wiley & Sons

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. *Petroleum Source Rocks* Stacey International Sandstone Petroleum Reservoirs presents an integrated, multidisciplinary approach to the geology of sandstone oil and gas reservoirs. Twenty-two case studies involving a variety of depositional settings, tectonic provinces, and burial/diagenetic histories emphasize depositional controls on reservoir architecture, petrophysical properties, and production

performance. An introductory section provides perspective to the nature of reservoir characterization and highlights the important questions that future studies need to address. A "reservoir summary" following each case study aids the reader in gaining quick access to the main characteristics of each reservoir. This casebook is heavily illustrated, and most data have not been previously published. The intended audience comprises a broad range of practicing earth

scientists, including petroleum geologists, geophysicists, and engineers. Readers will value the integration of geological versus engineering interests provided here, and will be enabled to improve exploration and production results. Desert sedimentary environments Springer Science & Business Media The BIRPS Atlas presents the 100 deep seismic reflection profiles collected around the British Isles by the BIRPS Group (BIRPS - British

Institutions Reflection Profiling Syndicate) at desk-top scale.

Permo-carboniferous Magmatism and Rifting in Europe

Geological Society of London

This edition retains the case history approach to emphasize the subsurface diagnosis of environments using seismic and geophysical well logs and their application to petroleum exploration and production. This book should be of interest to undergraduates in sedimentology and petroleum geology.

Thermal Modeling in Sedimentary Basins

Geological Society of London

The history of the European oil and gas industry reflects local as well as global political events, economic constraints and the personal endeavours of individual petroleum geoscientists as much as it does the development of technologies and the underlying geology of the region. The first commercial oil wells in Europe were drilled in Poland in 1853, Romania

in 1857, Germany in 1859 and Italy in 1860. The 23 papers in this volume focus on the history and heritage of the oil and gas industry in the key European oil-producing countries from the earliest onshore drilling to its development into the modern industry that we know today. The contributors chronicle the main events and some of the major players that shaped the industry in Europe. The volume also marks several important anniversaries, including 150 years of oil

exploration in Poland and Romania, the centenary of the drilling of the first oil well in the UK and 50 years of oil production from onshore Spain.

United Kingdom Oil and Gas Fields

Geological Society of London

This reference on the geology and geophysics of continental margins contains a total of 15 papers developed from a session of the Fifth International Congress of the Brazilian Geophysical Society held in Sao Paulo, Brazil in 1997, as well as a

number of other contributions. Subjects include the roots of the southeastern continental margin of Brazil, the mosaic of Terranes in central Europe, the evolution of the Angolan passive margin; geological and geophysical interpretation of the San Julian Basin offshore Argentina; and the tectonic evolution of the equatorial South Atlantic. Of likely interest to academic geoscientists

working in basin analysis and those engaged in petroleum exploration. Member price, \$52.50. Annotation copyrighted by Book News, Inc., Portland, OR.

[Sequence Stratigraphy on the Northwest European Margin](#) Oxford University Press, USA

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.

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