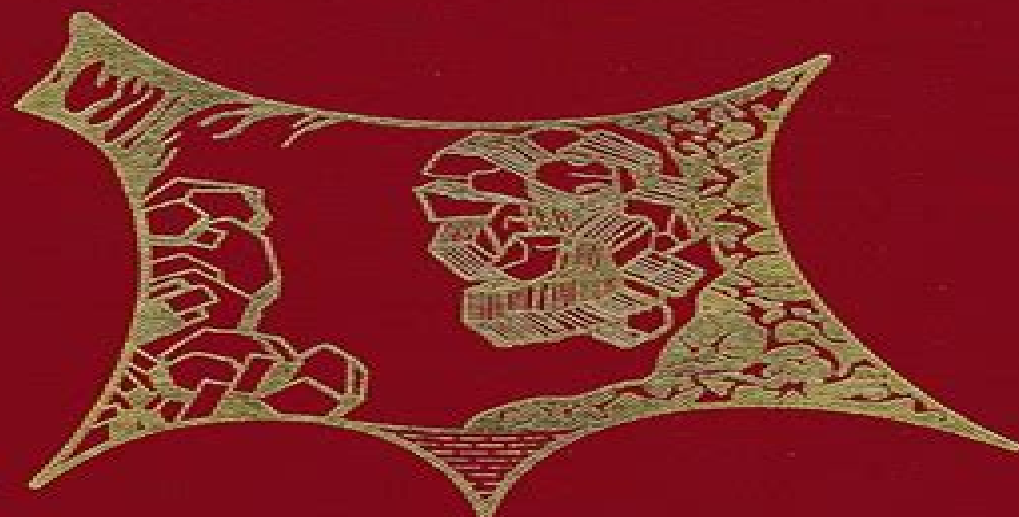


ORIGIN, DIAGENESIS, AND PETROPHYSICS OF CLAY MINERALS IN SANDSTONES



Edited by
David W. Houseknecht and Edward D. Pittman

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Origin Diagenesis And Petrophysics Of Clay Minerals In Sandstones

Scott C. Dulebohn



Origin Diagenesis And Petrophysics Of Clay Minerals In Sandstones:

Origin, Diagenesis, and Petrophysics of Clay Minerals in Sandstones David W. Houseknecht, Edward D. Pittman, 1992 *Clay Mineral Cements in Sandstones* Richard Worden, Sadoon Morad, 2009-03-05 Clay minerals are one of the most important groups of minerals that destroy permeability in sandstones. However, they also react with drilling and completion fluids and induce fines migration during hydrocarbon production. They are a very complex family of minerals that are routinely intergrown with each other, contain a wide range of solid solutions, and form by a variety of processes under a wide range of temperatures and rock and fluid compositions. In this volume, clay minerals in sandstones are reviewed in terms of their mineralogy and general occurrence, their stable and radiogenic isotope geochemistry, XRD quantification, their effects on the petrophysical properties of sandstones, and their relationships to sequence stratigraphy and palaeoclimate. The controls on various clay minerals are addressed, and a variety of geochemical issues, including the importance of mass flux links to carbonate mineral diagenesis and linked clay mineral diagenesis in interbedded mudstone sandstone, are explored. A number of case studies are included for kaolin, illite, and chlorite cements, and the occurrence of smectite in sandstone is reviewed. Experimental rate data for clay cements in sandstones are reviewed, and there are two model-based case studies that address the rates of growth of kaolinite and illite. The readership of this volume will include sedimentologists and petrographers who deal with the occurrence, spatial and temporal distribution patterns, and importance of clay mineral cements in sandstones; geochemists involved in unraveling the factors that control clay mineral cement formation in sandstones; and petroleum geoscientists involved in predicting clay mineral distribution in sandstones. The book will also be of interest to geologists involved in palaeoclimate studies, basin analysis, latest geochemical data on clays in sandstones. Provides important information for geologists involved in basin analysis, sandstone petrology, and petroleum geology. If you are a member of the International Association of Sedimentologists (IAS), for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP34>. *Geology of Gas and Oil under the Netherlands* H.E. Rondeel, D.A.J. Batjes, W.H. Nieuwenhuijs, 2012-12-06 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. Sedimentary Petrology Maurice E. Tucker, 2013-05-22 The earlier editions of this book have been used by successive generations of students for more than 20 years, and it is the standard text on the subject in most

British universities and many others throughout the world. The study of sediments and sedimentary rocks continues to be a core topic in the Earth Sciences and this book aims to provide a concise account of their composition, mineralogy, textures, structures, diagenesis and depositional environments. This latest edition is noteworthy for the inclusion of 16 plates with 54 colour photomicrographs of sedimentary rocks in thin section. These bring sediments to life and show their beauty and colourful appearance down the microscope; they will aid the student enormously in laboratory petrographic work. The text has been revised where necessary and the reference and further reading lists brought up to date. New tables have been included to help undergraduates with rock and thin section description and interpretation. New 16-page colour section will mean students do not need to buy Longman Atlas. All illustrations redrawn to higher standard. Complete revision of text, new material on sedimentary geochemistry etc.

Deepwater Sedimentary Systems Jon R. Rotzien, Cindy A. Yeilding, Richard A. Sears, F. Javier Hernández-Molina, Octavian Catuneanu, 2022-08-18. *Deepwater Sedimentary Systems* Science Discovery and Applications helps readers identify, understand and interpret deepwater sedimentary systems at various scales both onshore and offshore. This book describes the best practices in the integration of geology, geophysics, engineering technology and economics used to inform smart business decisions in these diverse environments. It draws on technical results gained from deepwater exploration and production, drilling campaigns and global field analog studies. With the multi-decadal resilience of deepwater exploration and production and the nature of its inherent uncertainty, this book serves as the essential reference for companies, consultancies, universities, governments and deepwater practitioners around the world seeking to understand deepwater systems and how to explore for and produce resources in these frontier environments. From an academic perspective, readers will use this book as the primer for understanding the processes, deposits and sedimentary environments in deep water from deep oceans to deep lakes. This book provides conceptual approaches and state-of-the-art information on deepwater systems as well as scenarios for the next 100 years of human-led exploration and development in deepwater offshore environments. The students taught this material in today's classrooms will become the leaders of tomorrow in Earth's deepwater frontier. This book provides a broad foundation in deepwater sedimentary systems. What may take an individual dozens of academic and professional courses to achieve an understanding in these systems is provided here in one book. Presents a holistic view of how subsurface and engineering processes work together in the energy industry, bringing together contributions from the various technical and engineering disciplines. Provides diverse perspectives from a global authorship to create an accurate picture of the process of deepwater exploration and production around the world. Helps readers understand how to interpret deepwater systems at various scales to inform smart business decisions with a significant portion of the workflows derived from the upstream energy industry.

Petrology of Sedimentary Rocks Sam Boggs, 2009-02-19. Advanced textbook outlining the physical, chemical and biological properties of sedimentary rocks through petrographic microscopy, geochemical techniques and field study.

Sediment Provenance Studies in Hydrocarbon

Exploration and Production R.A. Scott, H.R. Smyth, A.C. Morton, N. Richardson, 2014-06-25 Sediment provenance studies concern the origin composition transportation and deposition of detritus and therefore are an important part of understanding the links between basinal sedimentation and hinterland tectonics and unroofing Such studies can add value at many stages of hydrocarbon exploitation from identifying regional scale crustal affinities and sediment dispersal patterns during the earliest stages of exploration to detailed correlation in producing reservoirs and understanding the impact of mineralogy on reservoir diagenesis The volume showcases the wide variety of techniques available using examples and applications from all aspects of sediment provenance research The papers are organized into four sets around the following themes Overview applications of provenance information in hydrocarbon reservoir sandstones Provenance diagenesis and reservoir quality Provenance studies linking sediment to source Looking forward development of techniques and data handling This book is dedicated to the memory of Maria Mange and Robert A Scott *Petroleum Geoscience* Knut Bjørlykke, 2015-05-19 This comprehensive textbook presents an overview of petroleum geoscience for geologists active in the petroleum industry while also offering a useful guide for students interested in environmental geology engineering geology and other aspects of sedimentary geology In this second edition new chapters have been added and others expanded covering geophysical methods in general and electromagnetic exploration methods in particular as well as reservoir modeling and production unconventional resources and practical petroleum exploration Sedimentary Basins Gerhard Einsele, 2013-06-29 The modern geological sciences are characterized by extraordinarily rapid progress as well as by the development and application of numerous new and refined methods most of them handling an enormous amount of data available from all the continents and oceans Given this state of affairs it seems inevitable that many students and professionals tend to become experts in relatively narrow fields and thereby are in danger of losing a broad view of current knowledge The abundance of new books and symposium volumes testifies to this trend toward specialization However many geologic processes are complex and result from the interaction of many seemingly unrelated individual factors This signifies that we still need generalists who have the broad overview and are able to evaluate the great variety of factors and processes controlling a geologic system such as a sedimentary basin In addition this also means that cooperation with other disciplines in the natural sciences and engineering is increasingly important Modern text books providing this broad overview of the earth sciences are rare **Carbonate Cementation in Sandstones** Sadoon Morad, 2009-04-15 Carbonate cements are very common and abundant in clastic sequences They profoundly influence the quality of hydrocarbon reservoirs and supply important information on palaeoenvironments and the chemical composition and flow patterns of fluids in sedimentary basins Despite this importance their distribution patterns in time and space and their geochemical evolution are not yet deeply explored and elucidated This Special Publication contains 21 review papers and case studies on carbonate cementation in clastic sequences written by invited specialists on the subject These papers present a wide and deep coverage

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Impact of grain coats on quartz overgrowth and Reservoir properties Busch, Benjamin, 2017-07-28 Syntaxial overgrowth cementation and thereby reservoir quality can be affected by grain coating phases inhibiting nucleation Reaction kinetics provide a means to model the development of cement phases over time Additional algorithms constraining compaction behavior porosity and permeability development are used to model reservoir quality Sub vertical deformation bands can compartmentalize reservoirs by impacting bed parallel permeability and preserve geochemical alterations

Reservoir Quality of Clastic and Carbonate Rocks P.J. Armitage, A.R. Butcher, J.M. Churchill, A.E. Csoma, C. Hollis, R.H. Lander, J.E. Omma, R.H. Worden, 2018-06-18 Reservoir quality is studied using a wide range of similar techniques in both sandstones and carbonates Sandstone and carbonate reservoir quality both benefit from the study of modern analogues and experiments but modelling approaches are currently quite different for these two types of reservoirs There are many common controls on sandstone and carbonate reservoir quality but also distinct differences due primarily to mineralogy Numerous controversies remain including the question of oil inhibition the key control on pressure solution and geochemical flux of material to or from reservoirs This collection of papers contains case study based examples of sandstone and carbonate reservoir quality prediction as well as modern analogue outcrop analogue modelling and advanced analytical approaches

Quartz Cementation in Sandstones R. Worden, Sadoon Morad, 2009-09-18 Quartz is the major porosity reducing cement in many sandstone sequences Therefore Quartz cements represent a key source of petrographic and geochemical information about diagenetic history They are also the major determinant of sandstone reservoir quality While the ultimate goal of research in this area is to make robust predictions about the amount and distribution of quartz cements in a wide variety of depositional and burial settings there are nevertheless large areas of the subject that are poorly understood and remain the subject of controversy The aim of this Volume which is based partly on papers submitted to a 1996 workshop in Belfast and partly on invited contributions is to bring together some of the main strands of research into quartz cements and provide a focus for debate and direction for future research This book will be welcomed by sedimentologists petrographers and geochemists involved in sandstone diagenesis as well as by petroleum geologists seeking a deeper understanding of the factors influencing reservoir porosity and permeability Contributors from 11 countries and 4 continents Represents the benchmark in quartz cement research If you are a member of the International Association of Sedimentologists for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP29>

Sedimentology James L. Best, C. R. Fielding, Ian Jarvis, Peter Mozley, 2009-05-11 Sedimentology has seen many significant advances and changes over the past 40 years ranging from facies modelling to sequence stratigraphy

chemostratigraphy to basin analysis and the integration of studies of physical chemical and increasingly biological processes in the interpretation and prediction of sedimentary environments and products The subject is becoming ever more interdisciplinary and applied and now has far more links to other physical sciences Research and debate are continuing afresh as we move into this new interdisciplinary phase and promise many developments and increased uses of our subject Now seemed a good time to publish a series of review papers concerning some key current areas of research We hope that these papers will provide comprehensive starting points for those wishing to become acquainted with an area act as stimuli for debate and provide awareness and ideas for future research avenues No issue of this sort can of course ever be truly comprehensive in its coverage these reviews concern only selected snippets from the wide scope of sedimentology and each has of necessity been selective in its own area

Improved and Enhanced Oil Recovery in Illinois Through Reservoir Characterization Donald F. Oltz,1994

Linking Diagenesis to Sequence Stratigraphy Sadoon Morad,Marcelo Ketzer,Luis F. de Ros,2012-11-07 Sequence stratigraphy is a powerful tool for the prediction of depositional porosity and permeability but does not account for the impact of diagenesis on these reservoir parameters Therefore integrating diagenesis and sequence stratigraphy can provide a better way of predicting reservoir quality This special publication consists of 19 papers reviews and case studies exploring different aspects of the integration of diagenesis and sequence stratigraphy in carbonate siliciclastic and mixed carbonate siliciclastic successions from various geological settings This book will be of interest to sedimentary petrologists aiming to understand the distribution of diagenesis in siliciclastic and carbonate successions to sequence stratigraphers who can use diagenetic features to recognize and verify interpreted key stratigraphic surfaces and to petroleum geologists who wish to develop more realistic conceptual models for the spatial and temporal distribution of reservoir quality This book is part of the International Association of Sedimentologists IAS Special Publications The Special Publications from the IAS are a set of thematic volumes edited by specialists on subjects of central interest to sedimentologists Papers are reviewed and printed to the same high standards as those published in the journal Sedimentology and several of these volumes have become standard works of reference

Gondwana Industrial Clays Patricia Eugenia Zalba,Martín Eduardo Morosi,María Susana Conconi,2016-08-30 This book is a study of the sedimentary and residual deposits of the Tandilia System also known as the Sierras Septentrionales of Buenos Aires Argentina Offering an overview of the geology stratigraphy petrology mineralogy and industrial applications of these deposits it is organized geographically and according to the different districts of the province s diverse counties where economically important Neoproterozoic and Eopaleozoic clay reserves occur Today most of the sediments of the Tandilia basin are found in South Africa due to the breakup of the continents which began in the Jurassic This partly accounts for the difficulty in interpreting the geology of Tandilia Apart from its extreme age and almost complete lack of fossil remains for a long time the tectonics that affected the whole area presented a real challenge as horst and graben structures added to the difficulty of geological

correlations Despite being 700 Ma old most of the physical chemical properties of the sediments have remained unchanged The Microbially Induced Sedimentary Structures MISS found in the tidal and peritidal deposits also hold untouched information on the mystery of the beginning of life on earth The fact that the Buenos Aires province is the country s first non metallic productive center together with the high quality of its clay deposits its easy access from main routes and proximity to large consumer centers have made these materials highly important in the province s construction industry

Compaction and cementation controls on reservoir quality in Buntsandstein red beds Schmidt, Christina,2022-05-02 Reservoir quality in fluvial siliciclastic rocks is variable Permeability is influenced by micron scale grain coatings or bedding style on the m km scale Outcrops allow the analysis of depositional environments and diagenesis thus an investigation of reservoir quality controls A process oriented approach is used to understand variability in a meander deposit compaction and cementation behavior of lithofacies types during burial and the discrepancy between porosity and permeability values

Petroleum Abstracts ,1993 **Reservoir quality controls and reservoir modelling of continental to transitional shallow marine sedimentary basins of Southern Nigeria** Adamolekun, Olajide Jonathan,2023-06-05 The object based stochastic approach in facies modelling is important in the construction of geologically consistent 3 D reservoir models and in constraining the distribution of petrophysical properties Tortuosity factor facies porosity and cementation factor constitute major uncertainties in the generated 3 D static model of the Niger Delta Basin Reservoir quality in the Dahomey Basin is mainly controlled by detrital matrix carbonate cement and iron oxide and iron oxyhydroxide cements

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