

Source rock geochemistry and petroleum systems of the greater McArthur Basin and links to other northern Australian Proterozoic basins

Amber Jarrett^{1,2}, Susannah MacFarlane¹, Tehani Palu¹, Chris Boreham¹, Lisa Hall¹, Dianne Edwards¹, Grant Cox¹, Tim J Munson³, Jochen Brocks⁴, Lidena Carr¹ and Paul Henson⁵

Northern Australia contains extensive Proterozoic sedimentary basins that contain organic-rich rocks with the potential to host both major petroleum accumulations and basin-hosted mineral systems (Figures 1–5). These intracratonic basins comprise the greater McArthur Basin (McArthur and Birrindjara basins, and Tomkinson Province; Close 2014), the Isa Superbasin, and the South Nicholson Basin. The sedimentary successions within these basins are assumed to be of equivalent age and to have been deposited

under similar climatic controls, resulting in correlative lithology, source facies and stratigraphic intervals.

The greater McArthur Basin contains Paleoproterozoic to Mesoproterozoic organic-rich mudrocks with the potential to generate conventional oil and gas deposits, and self-sourced continuous shale oil and shale gas targets (Munson 2014, Revie 2017a, b, Weatherford Laboratories 2017). Exploration has focused on the Beetaloo Sub-basin where organic-rich mudrocks of the Velkerri Formation contain up to 10 wt% total organic carbon (TOC) and have been assessed to contain 118 trillion cubic feet (Tcf) of gas-in-place (Munson 2014, Revie 2017a, Weatherford Laboratories 2017, Revie and Normington 2018). Other significant source rocks include the Kyalla Formation of the Roper Group, the Barney Creek, Valco and Lynott formations of the McArthur Group, the Wollogorang, and perhaps the McDermott formations of the Tawallah Group, and the Vaughton Siltstone of the Balma

¹ Geoscience Australia, GPO Box 378, Canberra ACT 2601, Australia

² Email: Amber.Jarrett@ga.gov.au

³ The University of Adelaide, Adelaide SA 5005, Australia

⁴ Northern Territory Geological Survey, GPO Box 4550, Darwin NT 0800, Australia

⁵ Research School of Earth Sciences, Australian National University, Acton ACT 0200, Australia

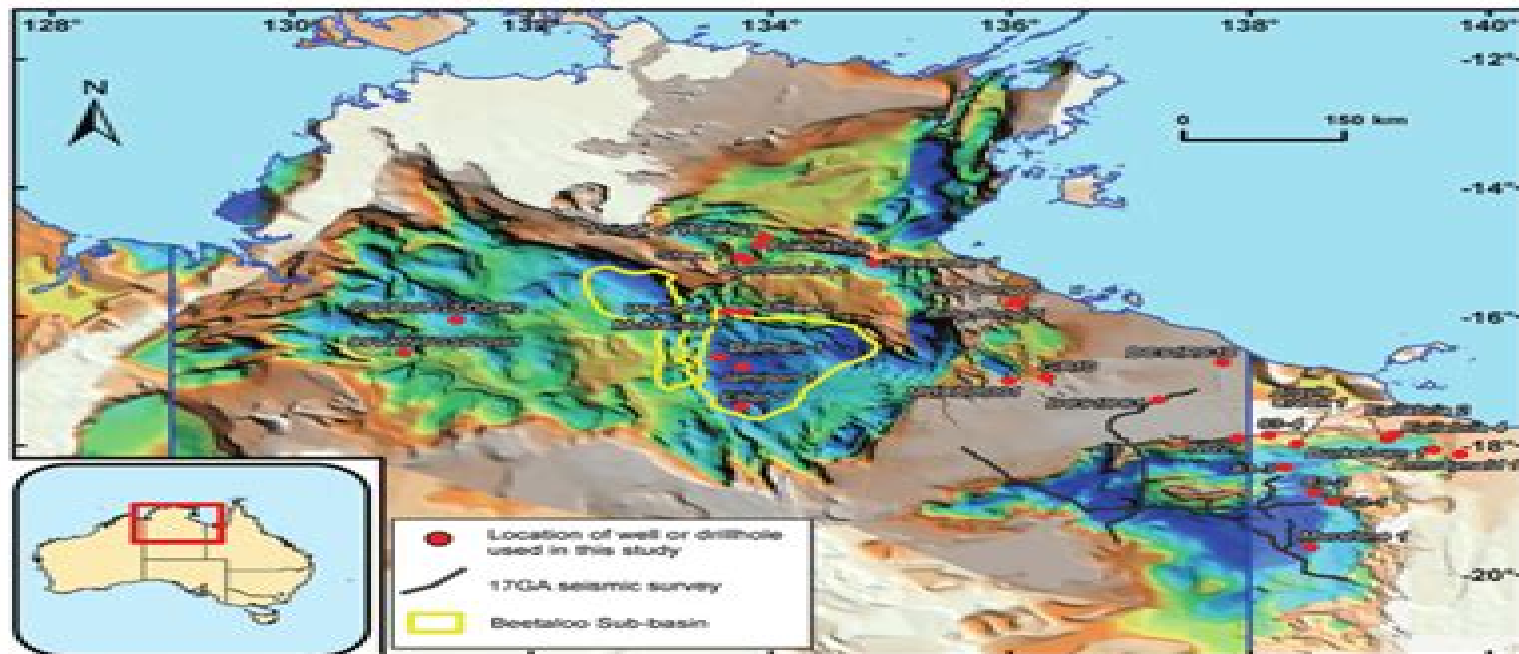


Figure 1. Location map of wells and drillholes used during this study and the location of the Geoscience Australia 2017 South Nicholson Basin seismic survey. Merged background combining the Proterozoic (v2), greater McArthur and northwest Queensland SEEBASE[®] images showing the basin containers of the greater McArthur Basin including the Beetaloo Sub-basin, and the South Nicholson Basin (Froggisch Geoscience 2018a, b; Froggisch 2016). Beetaloo Sub-basin outline (Department of Primary Industry and Resources, 2017) and South Nicholson Basin outline (Raymond 2018).

Petroleum Geology Of The Northern Part O

S. J. Jolley



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Petroleum Geology of the North European Margin A. M. Spencer, 2012-12-06 Complete Proceedings of the Symposium organised by the Norwegian Petroleum Society and held at Trondheim Norway in 1983 **1992 Proceedings, International Conference on Arctic Margins** Dennis K. Thurston, Kazuya Fujita, 1994 Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps David G. Roberts, 2012-05-29 Expert petroleum geologists David Roberts and Albert Bally bring you Regional Geology and Tectonics Phanerozoic Passive Margins Cratonic Basins and Global Tectonic Maps volume three in a three volume series covering Phanerozoic regional geology and tectonics Its key focus is on both volcanic and non volcanic passive margins and the importance of salt and shale driven by sedimentary tectonics to their evolution Recent innovative research on such critical locations as Iberia Newfoundland China and the North Sea are incorporated to provide practical real world case studies in regional geology and tectonics The vast amount of volcanic data now available to form accurate hydrocarbon assessments and analysis at passive margin locations is also included into this thorough yet accessible reference Named a 2013 Outstanding Academic Title by the American Library Association s Choice publication A how to practical reference that discusses the impact of the development of passive margins and cratonic basins on the structural evolution of the Earth in regional geology and tectonic applications Incorporates the increased availability of industry data to present regional seismic lines and cross sections leading to more accurate analysis and assessment of targeted hydrocarbon systems Analyses of passive margins and cratonic basins in East Africa China Siberia the Gulf of Suez and the Laptev Sea in the Russian Arctic provide immediately implementable petroleum exploration applications Summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps A.W. Bally, 2012-05-31 Expert petroleum geologists David Roberts and Albert Bally bring you Regional Geology and Tectonics Phanerozoic Passive Margins Cratonic Basins and Global Tectonic Maps volume three in a three volume series covering Phanerozoic regional geology and tectonics Its key focus is on both volcanic and non volcanic passive margins and the importance of salt and shale driven by sedimentary tectonics to their evolution Recent innovative research on such critical locations as Iberia Newfoundland China and the North Sea are incorporated to provide practical real world case studies in regional geology and tectonics The vast amount of volcanic data now available to form accurate hydrocarbon assessments and analysis at passive margin locations is also included into this thorough yet accessible reference Named a 2013 Outstanding Academic Title by the American Library Association s Choice publication A how to practical reference that discusses the impact of the development of passive margins and cratonic basins on the structural evolution of the Earth in regional geology and tectonic applications Incorporates the increased availability of industry data to present regional seismic lines and cross sections leading to more accurate analysis and assessment of targeted hydrocarbon

systems Analyses of passive margins and cratonic basins in East Africa China Siberia the Gulf of Suez and the Laptev Sea in the Russian Arctic provide immediately implementable petroleum exploration applications Summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings

Arctic National Wildlife Refuge, Alaska, Coastal Plain Resource Assessment United States. Department of the Interior,U.S. Fish and Wildlife Service,Geological Survey (U.S.),United States. Bureau of Land Management,1987

Biostratigraphy in Production and Development Geology Robert Wynn Jones,M. D. Simmons,1999

Sedimentary Environments Offshore Norway-Palaeozoic to Recent O.J. Martinsen,T. Dreyer,2001-06-06 Required reading for geologists working in the offshore areas Volume 10 continues the series from the Norwegian Petroleum Society This work provides an up to date review of the late Palaeozoic to present sedimentary history of the Norwegian offshore areas in the North Sea and Mid Norway basins Case studies overview articles and analogue examples from adjacent areas such as Greenland and Denmark present new ideas on the development of the Norwegian margin from the Carboniferous through the Mesozoic and Cenozoic In particular new evidence and interpretations are presented on well known major reservoir bearing successions such as the Statfjord Formation and Dunlin Group in the Northern North Sea and the re and the Tilje Formations in the Mid Norway area Furthermore the Upper Jurassic succession in the Haltenbanken area is described giving new evidence on the interplay between extensional tectonics and sedimentation during the second major rift phase in the area The Cretaceous and Cenozoic periods are treated extensively showing their importance as overall deep water sedimentary systems with proven and potential reservoir rocks such as in the Ormen Lange Field and for causing burial of Jurassic rocks to advantageous depths for hydrocarbon generation The Recent sedimentary history of the Norwegian margin is treated with examples of the glacial history and giant submarine slides which understanding is vital for the placement of offshore installations The book is organised based on geologic time from Palaeozoic through Mesozoic to Cenozoic examples It includes a set of palaeogeographic maps from the Carboniferous through to the Cenozoic In addition there are numerous examples of core photographs well log data correlation panels and seismic as well as outcrop photographs and logs from the analogue examples Comprehensive reference and keyword lists are also included Tertiary Deep-Marine Reservoirs of the North Sea Region T. McKie,P.T.S. Rose,A.J. Hartley,D.W. Jones,T.L. Armstrong ,2015-11-02 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

Dynamics of the Norwegian Margin Geological Society of London, 2000 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

The NE Atlantic Region G. Péron-Pinvidic, J.R. Hopper, M.S. Stoker, C. Gaina, J.C. Doornenbal, T. Funck, U.E. Ártung, 2017-10-30 The NAG TEC project was a collaborative effort by the British Geological Survey the Geological Survey of Denmark and Greenland the Geological Survey of Ireland the Geological Survey of the Netherlands the Geological Survey of Northern Ireland the Geological Survey of Norway Iceland GeoSurvey and the Faroese Geological Survey Jar feingi along with a number of academic partners and significant support from industry The main focus was to investigate the tectonic evolution of the region with a particular emphasis on basin evolution along conjugate margins A key outcome was the development of a new tectonostratigraphic atlas and database that includes comprehensive geological and geophysical information relevant for understanding the Devonian to present evolution of the NE Atlantic margins These provide the foundation upon which ongoing research and exploration of the area can build This Special Publication provides some of the first scientific results and analysis based on the project including regional stratigraphic analysis and correlations crustal structure and interpretation of geophysical data sets plate kinematics and the evolution of igneous provinces

Reservoir Compartmentalization S. J. Jolley, 2010 Reservoir compartmentalization the segregation of a petroleum accumulation into a number of individual fluid pressure compartments controls the volume of moveable oil or gas that might be connected to any given well drilled in a field and consequently impacts booking of reserves and operational profitability This is a general feature of modern exploration and production portfolios and has driven major developments in geoscience engineering and related technology Given that compartmentalization is a consequence of many factors an integrated subsurface approach is required to better understand and predict compartmentalization behaviour and to minimize the risk of it occurring

unexpectedly This volume reviews our current understanding and ability to model compartmentalization It highlights the necessity for effective specialist discipline integration and the value of learning from operational experience in detection and monitoring of compartmentalization stratigraphic and mixed mode compartmentalization and fault dominated compartmentalization Page 4 of cover Sequence stratigraphy of the Jurassic-Lowermost Cretaceous (Hettangian-Berriasian) of the North Sea region P. Copestake, M.A. Partington, 2023-07-26 Sequence stratigraphy has become a powerful tool in the basin analysis of the North Sea Basin and will continue to play an important role in the maximization of the remaining hydrocarbon potential of the region whilst also supporting the energy transition in carbon capture and storage projects with Jurassic storage units This Memoir provides a long awaited comprehensive documentation of Jurassic to lowermost Cretaceous sequence stratigraphy of the region UK Norway Denmark and adjacent areas The volume is amply illustrated by numerous well log displays core images seismic lines chronostratigraphic diagrams and outcrop photographs Individual chapters discuss the historical usage of sequence stratigraphy in the North Sea Jurassic sequence stratigraphic concepts and models application in hydrocarbon field development definition of stratigraphic traps well sequence interpretation methodology and controls on sequence development To complete the volume there are further chapters on North Sea Jurassic lithostratigraphy and its relation to sequence stratigraphy and descriptions of the biozones used to characterize and correlate the sequences The TRANSMED Atlas. The Mediterranean Region from Crust to Mantle William Cavazza, 2004-08-12 A publication of the Mediterranean Consortium for the 32nd International Geological Congress

China — Stratigraphy, Paleogeography and Tectonics Arthur A. Meyerhoff, M. Kamen-Kaye, Chin Chen, I. Taner, 2012-12-06 all such systems are important the Proterozoic column This volume concerns the geology of China and it examines that concern by exposition of the stratigraphy possibly is unique in its continuous sedimentary development the paleogeography and the tectonics of that remarkable orogen and in its reference section of global rank In paleogeography this volume describes and illustrates the country In this sense therefore our aims and purposes are explicit in the title The senior author and his colleagues first the broad distribution of Proterozoic deposits colleagues furthermore do not have in mind any special Succeeding descriptions and illustrations trace the ebb and flow of shallow marine waters across China as or specific audience This volume is quite simply for all geologists By far the majority will be those whose Phanerozoic time of more than 600 million years elapses native tongue is English or those who understand from the beginning of the Cambrian to the present In structure this volume emphasizes the importance English Not to be overlooked moreover is the large number of Chinese geologists who not only read English of paraplatforms platforms geosynclines and great but also who themselves write studies in English that east west zones of fracture in the Precambrian also the appear in publications in both their homeland and effects of these early structural elements on structure abroad in the ensuing Phanerozoic In the Phanerozoic itself north south stress developed in the pre Phanerozoic A constantly growing interest in the geology of China continued

through much of the Paleozoic 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 *U.S. Geological Survey Circular* ,1984 *Ormen Lange - an integrated study for safe field development in the Storegga submarine area* A. Solheim,P. Bryn,K. Berg,H.P. Sejrup,J. Mienert,2012-12-02 Great effort has been undertaken to investigate potential geohazards in relation to the development of the Ormen Lange gas field offshore Mid Norway The field is located in the scar left after the giant tsunami generating Storegga Slide which occurred roughly 8200 years ago and the slide risk has consequently received particular focus The studies have been multi disciplinary in character and have involved a number of companies universities and research institutions The results of the project led to a significant advance in the understanding of the Storegga Slide in particular and submarine slope instability in general and played an important role in the approval of field development by Norwegian authorities This book comprises 26 individual contributions representing the wide span of topics addressed in the project The main scope is to provide a state of the art report on geohazard investigations in a high latitude continental margin setting Most of the data and results published in this book would not have reached beyond the confidential report stage unless the license partners of the Ormen Lange license had agreed that this information deserves a wider audience Multidisciplinary and covers most themes treated in slope stability studies prior to the field development phase Provides a link between basic research and applied geohazard studies with direct relevance for risk evaluation in relation to field development activities such as pipeline design drilling of wells structure foundation etc A state of the art report on geohazard investigations in a high latitude continental margin setting in relation to field development activities *Cretaceous Climate Events and Short-Term Sea-Level Changes* M. Waple,M.B. Hart,B. Sames,I.O. Yilmaz,2020 Sea level constitutes a critical planetary boundary for geological processes and human life Sea level fluctuations during major greenhouse phases are still enigmatic and strongly discussed in terms of changing climate systems The geological record of the Cretaceous greenhouse period provides a deep time view on greenhouse phase Earthsystem processes that facilitates a much better understanding of the causes and consequences of global geologically

short term sea level changes In particular Cretaceous hothouse periods can serve as a laboratory to better understand a near future greenhouse Earth This volume presents high resolution sea level records from globally distributed sedimentary archives of the Cretaceous involving a large group of scientists from the International Geoscience Programme IGCP 609 Marine to non marine sedimentary successions were analysed for revised age constraints the correlation of global palaeoclimate shifts and sea level changes tested for climate driven cyclicities and correlated within a high resolution stratigraphic framework of the Geological Timescale For hothouse periods the hypothesis of significant global groundwater related sea level change i e aquifer eustasy as a major process is reviewed and substantiated **Advances in**

Fission-Track Geochronology P. van den Haute, Frans De Corte, 2013-03-09 Since 1980 progress in research on the fission track dating method and its applications to earth and related sciences has been evaluated during an International Workshop that takes place every four years This volume contains a selection of papers presented at the International Workshop held in Gent Belgium from 26 to 30 August 1996 Primarily the articles will be of interest to the active fission track scientists but the combination of research papers and critical reviews that is presented may also provide the interested non specialist reader with a valuable insight into the fission track dating method and its role in the earth sciences This reader will undoubtedly note the evolution that the method has undergone during the last fifteen years from a technique that was debated in most of its facets to an established chronometric tool with unique qualities in geothermochronology *Geology and Geophysics of an Arc-continent Collision, Taiwan* Timothy Briggs Byrne, Char-Shine Liu, 2002-01-01

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