


V.I. Djunin · A.V. Korzun



Hydrogeodynamics of Oil and Gas Basins

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Hydrogeodynamics of Oil and Gas Basins V.I. Djunin, A. V. Korzun, 2010-07-15 This book with a special chapter on the problem of oil origin and the formation of hydrocarbon fields is an in depth study of this complex area of research It analyzes local and regional regularities in the formation of deep fluids in petroliferous basins *Hypogene Karst Regions and Caves of the World* Alexander Klimchouk, Arthur N. Palmer, Jo De Waele, Augusto S. Auler, Philippe Audra, 2017-08-17 This book illustrates the diversity of hypogene speleogenetic processes and void conduit patterns depending on variations of the geological environments by presenting regional and cave specific case studies The cases include both well known and newly recognized hypogene karst regions and caves of the world They all focus on geological hydrogeological geodynamical and evolutionary contexts of hypogene speleogenesis The last decade has witnessed the boost in recognition of the possibility global occurrence and practical importance of hypogene karstification speleogenesis i e the development of solutional porosity and permeability by upwelling flow independent of recharge from the overlying or immediately adjacent surface Hypogene karst has been identified and documented in many regions where it was previously overlooked or misinterpreted The book enriches the basis for generalization and categorization of hypogene karst and thus improves our ability to adequately model hypogene karstification and predict related porosity and permeability It is a book which benefits every researcher student and practitioner dealing with karst Hydrogeodynamics I.K. Gavich, 2020-10-08 This text focuses particularly on the growing interest in hydrodynamic principles of the study of underground waters new methods of eco based hydrogeodynamic analysis and the estimation of the quantity of infiltration water transfer The author also discusses aspects of mass transfer by subsurface water flow in the light of molecular kinetics and examines a new approach to investigating the slow movements of groundwater at the deep zones of the hydrolithosphere *Fluid Dynamics of Oil and Gas Reservoirs* M. Z. Rachinsky, V. Y. Kerimov, 2015-02-02 Whether as a textbook for the petroleum engineering student or a reference for the veteran engineer working in the field this new volume is a valuable asset in the engineer s library for new tested methods of more efficient oil and gas exploration and production and better estimating methods In this book the authors combine a rigorous yet easy to understand approach to petrophysics and how it is applied to petroleum and environmental engineering to solve multiple problems that the engineer or geologist faces every day Useful in the prediction of everything from crude oil composition pore size distribution in reservoir rocks groundwater contamination and other types of forecasting this approach provides engineers and students alike with a convenient guide to many real world applications Fluid dynamics is an extremely important part of the extraction process and petroleum geologists and engineers must have a working knowledge of fluid dynamics of oil and gas reservoirs in order to find them and devise the best plan for extraction before drilling can begin This book offers the engineer and geologist a fundamental guide for accomplishing these goals providing much needed calculations and formulas on fluid flow rock properties and many other topics that are encountered

every day The approach taken in Fluid Dynamics of Oil and Gas Reservoirs is unique and has not been addressed until now in a book format Readers now have the ability to review some of the most well known fields in the world from the USA to Russia and Asia Useful for the veteran engineer or scientist and the student alike this book is a must have for any geologist engineer or student working in the field of upstream petroleum engineering **Moscow University Geology Bulletin** ,2003

Проблемы Севера ,2001 **Hydrogeology** 27th International Geological Congress,1984-12 V.N. Karazin Kharkiv National University Kharkivs'kyi natsional'nyi universytet im. V.N. Karazina,2000 *Geochemistry International* ,2003 Vols for 1964 v 2 no 1 1965 include selected articles translated from geochemical papers from other languages but primarily from Russian German French and Japanese *Геологическая литература России* Н. К. Булин,И. В. Васильев,С. А. Вересов,Б.А. Марковский,Ю. Т. Морозов,А. Н. Олейников,Г. С. Поротов,В. Е. Руденко,1999-12-14 **International Books in Print** ,1986 **Bibliographical yearbook for ... year** ,1999 **Forthcoming Books** Rose Arny,1996-10

Geological literature of Russia ,1997 **Oil and Gas Potential of Sedimentary Basins in the United States** Frank J. Adler,Phillips Petroleum Company. Worldwide Exploration Division,1978 **Variations in the oil and gas geology of rift basins** J. O. Salveson,1976 Petroleum and Basin Evolution Dietrich H. Welte,Brian Horsfield,Donald R. Baker,2012-12-06 This book has been prepared by the collaborative effort of two somewhat separate technical groups the researchers at the Institute for Petroleum and Organic Geochemistry Forschungszentrum Jilich KFA and the technical staff of Integrated Exploration Systems IES One of us Donald R Baker from Rice University Houston has spent so much time at KFA as a guest scientist and researcher that it is most appropriate for him to contribute to the book During its more than 20 year history the KFA group has made numerous and significant contributions to the understanding of petroleum evolution The KFA researchers have emphasized both the field and laboratory approaches to such important problems as source rock recognition and evaluation oil and gas generation maturation of organic matter expulsion and migration of hydrocarbons and crude oil composition and alteration IES Jilich has been a leader in the development and application of numerical simulation basin modeling procedures The cooperation between the two groups has resulted in a very fruitful synergy effect both in the development of modeling software and in its application The purpose of the present volume developed out of the 1994 publication by the American Association of Petroleum Geologists of a collection of individually authored papers entitled The Petroleum System From Source to Trap edited by L B Magoon and W G Dow World Atlas of Oil and Gas Basins Guoyu Li,2011-03-14 Professor Li s World Atlas of Oil and Gas Basins is a fresh and comprehensive treatise of the distribution of the world s hydrocarbon reserves The Atlas highlights the geographical sedimentary and geological features of the basins using a combination of maps and stratigraphic diagrams to depict the history prospectivity and commercial production capacity of the reserves on a continental and country by country basis The Atlas is an essential reference source for petroleum geologists and reservoir engineers working in hydrocarbon exploration and production It is also a valuable and original teaching aid for

university graduate and postgraduate courses The Atlas provides a welcome addition to the global database of the world's energy resources and is therefore an indispensable source of information for the formulation of future strategies to exploit oil and gas reserves Written by one of China's foremost petroleum geologists the Atlas provides a rare analysis of the industry from the perspective of the country whose demand for oil and gas is set to become the largest in the next few decades It is an important and vital scholarly work

Dissolved Gases, Salts, and Metals in Appalachian Basin Groundwater Samuel Shaheen, 2024 As human populations increase worldwide anthropogenic perturbation of natural systems intensifies One of the most impactful anthropogenic activities has been the development of oil and gas reservoirs over the last two centuries This development has produced major changes to many of the Earth's biogeochemical cycles including the carbon and water cycles Impacts to shallow groundwaters because of oil and gas development include the release of deep gases such as methane or deep waters such as basin brines co-produced with hydrocarbons Fluids can be released during modern oil and gas extraction which today often utilizes high volume high pressure hydraulic fracturing or because of the degrading integrity of legacy oil and gas wells These wells number in the millions worldwide and were often constructed prior to modern regulations designed to prevent fluid migration outside the wellbore However the extent of such impacts and the mechanisms through which they occur are often ill defined Additionally any impacts of oil and gas development on groundwater must be distinguished from the natural gases and salt ions that derive from natural geologic processes or other forms of anthropogenic disturbance such as road salting or coal mining In this thesis I examine how both contemporary and legacy oil and gas extraction alters shallow groundwater using the Appalachian Basin of the northeastern United States as a testbed The Appalachian Basin hosts one of the highest densities of shale gas extraction in the world and at the same time also is the location of the oldest oil and gas fields in the world In the first two studies I assembled the largest dataset of groundwater chemistry analyses from a shale gas play and utilized this unprecedented data availability to investigate the mechanisms and extent of groundwater impacts from shale gas extraction and its overlapping geologic and anthropogenic influences on water chemistry In Chapter 2 I began by investigating the sources of methane and salt ions in southwestern Pennsylvania a region where shale gas development was preceded by a long history of coal mining and conventional oil and gas extraction I discovered that while the frequency of methane migration during shale gas development may be reduced by prior extraction of shallow gases shale gas development produces hotspots where chloride concentrations increase in groundwater nearby shale gas wells In turn the number of these hotspots is large enough to produce a detectable regional increase in groundwater chloride concentrations near shale gas wells This increase is also observable for barium and strontium and can be distinguished from widespread road salt impacts using machine learning based endmember separation techniques Expanding the study area to work across the Marcellus Shale region of Pennsylvania in Chapter 3 I discovered these increases in brine associated ion concentrations are observable region wide When I examine the relationship between

these species and wastewater spills on shale gas wellpads even larger increases in the concentrations of salt ions are observed compared to the increases associated with all shale gas wells. In total these results suggest wastewater leaks or spills during shale gas development produce isolated areas where the concentrations of brine related contaminants increase in groundwater nearby shale gas development. These incidents happen with high enough frequency that small regional increases can be detected in groundwaters nearby shale gas wells across the northern Appalachian Basin. The frequency of spills and leaks in other major shale gas basins are comparable to that of the Appalachian suggesting that brine releases may be an increasing water quality problem as hydrocarbon basin development continues worldwide. But ongoing leakage of producing oil and gas wells is not the only concern for a basin such as the Appalachian where more wells have been abandoned than are currently operational. Therefore I also explore how abandoned oil and gas wells in northwestern Pennsylvania can serve as conduits for the migration of deep fluids as well as the biogeochemical implications when deep subsurface fluids mix with shallow waters in abandoned wellbores. In Chapter 4 I characterize geochemical and isotopic compositions and microbial assemblages of groundwater samples from the world's oldest oil and gas field. The concentrations and ionic ratios in these samples suggest formation brines migrate upwards with natural gas in some abandoned wellbores in the Appalachian Basin but are diluted over 50 fold by fresher groundwaters closer to the surface. Isotopic compositions and microbial assemblages suggest the redox disequilibrium induced by this mixing of deep gases and shallow groundwaters promotes methane cycling including oxidation of the leaking natural gas. Field observations, laboratory experiments and reactive transport modeling in this study are consistent with the inference that the influx of methane is associated with anaerobic oxidation of methane coupled with metal oxide or sulfate reduction. These reactions can in turn produce or mobilize hazardous species in the water such as arsenic or hydrogen sulfide creating secondary risks to water resources because of gas migration mediated by abandoned wells. In sum this thesis advanced our knowledge of the extent of groundwater chemistry alteration during oil and gas extraction while also illuminating the specific mechanisms through which impacts to groundwater may occur. My results indicate water resource impacts occur in hotspots where incidents during shale gas extraction or low integrity wellbores release fluids to shallow groundwater. I discovered that low concentrations of salt ions may be reaching groundwaters nearby shale gas wellpads with a high enough frequency that a regional albeit small impact is detectable. While prior work has focused more extensively on methane migration these trends in groundwater complement a recent nationwide analysis that documented a similar increase in salt ion concentrations in surface waters. My results link these increases for the first time to a plausible mechanism namely the leaks or spills of saline wastewaters at wellpads. While regional groundwater impacts during shale gas development are likely driven by isolated leakage incidents my results also indicate that the degrading integrity of legacy oil and gas wells is promoting the upwards migration of deeper fluids that produce secondary threats to water quality. My results therefore highlight that changes in

groundwater chemistry can result from oil and gas extraction both during and after the production lifetimes of wells in basins worldwide

Basin Analysis Philip A. Allen, John R. Allen, 2013-05-30 Basin Analysis is an advanced undergraduate and postgraduate text aimed at understanding sedimentary basins as geodynamic entities The rationale of the book is that knowledge of the basic principles of the thermo mechanical behaviour of the lithosphere the dynamics of the mantle and the functioning of sediment routing systems provides a sound background for studying sedimentary basins and is a pre requisite for the exploitation of resources contained in their sedimentary rocks The third edition incorporates new developments in the burgeoning field of basin analysis while retaining the successful structure and overall philosophy of the first two editions The text is divided into 4 parts that establish the geodynamical environment for sedimentary basins and the physical state of the lithosphere followed by a coverage of the mechanics of basin formation an integrated analysis of the controls on the basin fill and its burial and thermal history and concludes with an application of basin analysis principles in petroleum play assessment including a discussion of unconventional hydrocarbon plays The text is richly supplemented by Appendices providing mathematical derivations of a wide range of processes affecting the formation of basins and their sedimentary fills Many of these Appendices include practical exercises that give the reader hands on experience of quantitative solutions to important basin analysis processes Now in full colour and a larger format this third edition is a comprehensive update and expansion of the previous editions and represents a rigorous yet accessible guide to problem solving in this most integrative of geoscientific disciplines Additional resources for this book can be found at www.wiley.com/go/allen/basinanalysis

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