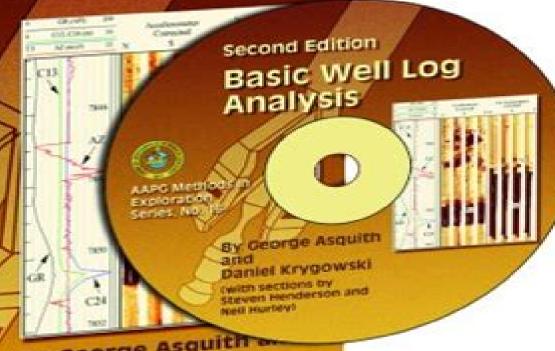


AAPG Methods in Exploration Series, No. 16

Second Edition

# Basic Well Log Analysis



By George Asquith and Daniel Krygowski

(with sections by Steven Henderson and Neil Hurley

Jonathan C. Evenick

Basic Well Log Analysis George B. Asquith, Daniel Krygowski, Steven Henderson, Neil F. Hurley, 2004 **AAPG** Basic Well Log Analysis George Asquith, Daniel **Explorer** American Association of Petroleum Geologists, 1996 Krvgowski.2004 Basic Well Log Analysis for Geologists ,1982 Basic Well Log Analysis for Geologists George B. Fundamentals of Petrophysical Well-Log Interpretation George Asquith, 2012-08-06 Asguith, Charles R. Gibson, 1982 Petrophysical well logs are incremental depth records of rock mineral fluid and other properties of the subsurface Well logs and the practice of well log interpretation by geologists and petroleum engineers represent a critical component of the exploration and assessment of potential hydrocarbon producing formations and reservoirs. The fundamentals of petrophysical well log interpretation are presented in this monograph which is a compilation of slide oriented course notes and commentary created by the author over many semesters of undergraduate and graduate class room instruction and is designed as a self teaching guide with worksheets Chapter 1 is an introduction to well log interpretation reviews discipline terminology the types and uses of various well logs and how the analyst might visually review logs in an effort to identify potentially productive zones of hydrocarbons Chapter 2 introduces the reader the borehole environment and a view of the zones in a porous and permeable formation that has been invaded during drilling The algorithmic steps are presented for computation of formation temperature from data on the log header Chapters 3 7 present to the user the general information and characteristics of the various well logs including what individual well logs are designed to measure and how tool measurements are converted to appropriate units needed for hydrocarbon production assessment Each chapter presents well log analysis for two well known Cretaceous formations Glen Rose and Frontier Chapter 8 reviews the critically important Archie Parameters that subsequently are used in Chapter 9 to compute the water saturations of the Glen Rose and Frontier formations using the Archie water saturation equation In prior worksheets the reader is guided to the determination that the Frontier formation is a shaly sandstone and therefore the specific methods of shaly sandstone analysis are required Chapter 10 is a review of additional techniques used to progressively refine interpretation of the two formations through well log analysis Additional techniques demonstrated include guidance on the user answering the following guestions 1 Are the hydrocarbons calculated within Chapter 9 moveable 2 Are the two formations water wet or oil wet 3 What are the pore types within the Glen Rose 4 Should the Glen Rose and Frontier formations individually make water free completions Similar to the other chapters the information acquired and computations by the user are oriented around worksheets so that final interpretations of each formation can be made Chapter 11 introduces and extensively reviews techniques useful for the evaluation of hydrocarbon potential in unconventional shale reservoirs using the standard well log suite comprised of resistivity neutron porosity and bulk density logs. The techniques will be presented along with four case studies of the gas

bearing Woodford Shale and the three oil bearing shales Permian Leonard shale and two Permian Wolfcamp shales Although the focus of the self guided components of the monograph are generally restricted to a few select formations The monograph includes considerable information and examples of the well logs host rock properties sandstones shales and reservoirs within other formations discussed include Ordovician Gunton Devonian Marcellus Mississippian Barnett Chester Mission Canyon Pennsylvanian Canyon Springer Morrow and Upper Morrow Permian Bone Springs Glorieta and San Andres Triassic Montney Cretaceous Lewis Pictured Cliffs and Woodbine The slides and commentary in this monograph are expected to be useful to a broad range of petrophysical well log analysts as tools to practical application as well as ascending for the beginner the formidable learning curve of petrophysical well log interpretation **Well Logging for Earth Scientists** Darwin V. Ellis, Julian M. Singer, 2008-06-18 The first edition of this book demystified the process of well log analysis for students researchers and practitioners In the two decades since the industry has changed enormously technical staffs are smaller and hydrocarbons are harder to locate quantify and produce New drilling techniques have engendered new measurement devices incorporated into the drilling string Corporate restructuring and the graying of the workforce have caused a scarcity in technical competence involved in the search and exploitation of petroleum The updated 2nd Edition reviews logging measurement technology developed in the last twenty years and expands the petrophysical applications of Well Logging for Earth Scientists Darwin V. Ellis, Julian M. Singer, 2009-09-03 The first edition of the measurements this book demystified the process of well log analysis for students researchers and practitioners In the two decades since the industry has changed enormously technical staffs are smaller and hydrocarbons are harder to locate quantify and produce New drilling techniques have engendered new measurement devices incorporated into the drilling string Corporate restructuring and the graying of the workforce have caused a scarcity in technical competence involved in the search and exploitation of petroleum The updated 2nd Edition reviews logging measurement technology developed in the last twenty years and expands the petrophysical applications of the measurements Basic Well Log Analysis (Second Edition).

Well Logging Handbook Oberto Serra, 2008 Following the success of the Drilling Data Handbook Editions Technip has designed this book to cover the well logging principles and its applications. This well logging handbook first edition starts with a summary on geology and petrophysics focusing mainly on its applications. The wide range of logging measurements and applications is covered through eleven sections each of them organized into four chapters. All in all this is a strongly bound user friendly book with useful information for those involved in all aspects and applications of well logging. The paging is notched and externally labelled alphabetically to allow a quick access. Geological Well Logs. S. Luthi, 2001-04-10 Logging has come a long way from the simple electrical devices of the early years. Today s tools are considerably more accurate and are used for an increasingly diverse number of tasks. Among these are tools that characterise geological properties of rocks in the borehole Combined with new technology to drill deviated wells the geoscientist now has tools

which allow him to characterise and develop reservoirs more accurately than ever This book written for researchers graduate students and practising geoscientists documents these techniques and illustrates their use in a number of typical case studies

Geologic Well Log Analysis Sylvain Joseph Pirson, 1970 *Well Logging and Formation Evaluation* Toby Darling, 2005-05-26 This hand guide in the Gulf Drilling Guides series offers practical techniques that are valuable to petrophysicists and engineers in their day to day jobs Based on the author's many years of experience working in oil companies around the world this guide is a comprehensive collection of techniques and rules of thumb that work The primary functions of the drilling or petroleum engineer are to ensure that the right operational decisions are made during the course of drilling and testing a well from data gathering completion and testing and thereafter to provide the necessary parameters to enable an accurate static and dynamic model of the reservoir to be constructed. This guide supplies these and many other answers to their everyday problems There are chapters on NMR logging core analysis sampling and interpretation of the data to give the engineer a full picture of the formation There is no other single guide like this covering all aspects of well logging and formation evaluation completely updated with the latest techniques and applications A valuable reference dedicated solely to well logging and formation evaluation Comprehensive coverage of the latest technologies and practices including troubleshooting for stuck pipe operational decisions and logging contracts Packed with money saving and time saving strategies for the engineer working in the field Well Logging for Physical Properties Joseph R. Hearst, Philip H. Nelson, Frederick L. Paillet, 2000-04-14 A unique description of the latest logging technology and how to apply it not only in standard situations but in other conditions such as air filled boreholes and partially saturated formations and for other applications such as the estimation of lithology type shale fraction and the movement of fluids in a borehole Standard well logging technology was developed primarily to quantify the content of petroleum in fluid saturated sedimentary formations however there are many other uses for the technology By taking a fundamental approach to tool physics and covering more topics in greater depth and at a higher technical level this book enables the reader to understand the technology to ask the right questions and then to use the answers It explores the physical principles behind logging methods including modern methods such as nuclear magnetic resonance full wave acoustic methods and logging while drilling No other book explains all of these new techniques However because log analysts must deal with logs run long ago descriptions of the older technology are also retained This comprehensive resource will help the log user review the results from the logging service companies which run the logs and present the results Throughout the book numerical values for the physical properties of fluids and minerals help the readers convert log values to actual formation properties. The explanations of technology practical examples and numerical data not only make this book an invaluable reference but also permit readers to improve and correct measurements made in the field Standard well logging technology was developed primarily to quantify the content of petroleum in fluid saturated sedimentary formations However there are many other uses for the technology This

book covers more topics in depth than any other book in the field It is the only book to cover nuclear magnetic resonance NMR logging and borehole gravimetry in any depth Its high level mathematically and technically makes it invaluable It is the first book to cover modern borehole imaging measurement of fluid flow in situ mineralogical logging logging while drilling full wave acoustic logging and electromagnetic wave resistivity all of which have gained in importance since the first edition and none of which are explored in detail in any other book The book helps the log user critically review the results from the logging service companies which run the logs and present the results It will enable the user to understand the technology ask the right questions and utilise the answers to improve the results obtained from logging contractors. The book gives practical examples of situations in which the authors knowledge of the technology permitted them to correct measurements made in the field Formation Evaluation with Pre-Digital Well Logs Richard M. Bateman, 2020-02-08 Formation Evaluation with Pre-Digital Well Logs covers the practical use of legacy materials for formation evaluation using wireline logging equipment from 1927 until the introduction of digital logging in the 1960s and 70s. The book provides powerful interpretation techniques that can be applied today when an analyst is faced with a drawer full of old E logs It arms the engineer geologist and petrophysicist with the tools needed to profitably plan re completions or in fill drilling in old fields that may have been acquired for modern deeper and or horizontal drilling Includes more than 150 figures log examples charts and graphs Provides work exercises for the reader to practice log analysis and formation evaluation Presents an important source for academia oil and gas professionals service company personnel and the banking and asset evaluation teams at consultancies involved in reserve and other property evaluation The Geological Interpretation of Well Logs M. H. Rider, 1996 This second edition of a highly successful book describes discusses and illustrates the interpretation of well logs for geological ends The book is illustrated profusely with many real examples and combines the well established with new and exciting developments The principal open hole logging tools are considered from theory to data acquisition and interpretation and new versions of old tools are included Many new logging developments are illustrated The **Finding Oil and Gas from** Well Logs L.M. Etnyre, 2013-11-11 Several excellent books on weil log interpretation have already been published However I feel that these books do not place enough emphasis on the inherent uncertainties in tool responses or on the related and very practical problem of selecting suitable data points for statistical or quantita tive calculations Thus I have written this book not only to introduce the newcomer to this very complex art and science but also to provide him or her with the necessary tools to produce better interpretations The problems at the end of each chapter are essential to a more complete understanding of the subject matter and include many practical notes based on problems I have encountered in actual applications This book emphasizes that you develop your own concepts and understanding of the underlying principles rather than acquiring a compendium of knowledge based on certain rules of thumb If you are to successfully interpret welllogs you need to be able to apply your knowledge to new problems that may not follow the preconceived ideas and approaches you

would follow if you approached weil log analysis from a cookbook standpoint *Introduction to Well Logs and Subsurface* Maps Jonathan C. Evenick, 2018 Subsurface mapping is a way to visualize and spatially characterize subsurface properties and well logs are often the dataset used to generate and calibrate these maps The correlation of basic geophysical logs rapidly enables oneself to begin to illustrate and understand the one dimensional to 3D distribution of various properties The second edition of Dr Jonathan Evenick's book covers many types of basic well logs and subsurface maps This book will help you quickly understand what many of these well logs are measuring and how they can be used to produce various subsurface maps Three additional chapters and exercises have been included on spectral gamma ray logs fault seal geothermal energy and source rock maps unconventional resources Features and Benefits Introduction to basic well logs and subsurface maps Applied exercises at that the end of each chapter Additional topics and materials have been included i e spectral gamma ray logs unconventional resources geothermal maps fault seal paleogeographic maps and resource uncertainty Well log and subsurface mapping exercises for use in subsurface mapping well logging petroleum hydrogeology mining and geothermal energy courses Full answer key available by request Audience Geologists Geophysicists Petroleum and reservoir engineers Well Log Formation Evaluation Richard H. Merkel, 1979 The motivation Hydrogeologists Environmental consultants behind the development of well logging tools and techniques has primarily been ultimately directed toward the ability to have in situ assaying of a particular target zone Computers have greatly aided log analysts in developing systems and accordingly log analysts have expanded their horizons to not only look at individual wells but to use log analysis also as an exploration tool This publication includes chapters that will assist the analysist such as tool descriptions basic analysis of logs quick look techniques computer analysis and geologic analysis Well Logging and Geology Oberto Serra, Lorenzo Serra, 2003 This book is one in a series of three books by the authors on various aspects of well logging with the final book to be on reservoir evaluation The book departs from traditional log analysis books in that it has a very strong emphasis on geologic principles with an extensive review of the processes that influence hydrocarbon accumulations The chapters are written in a stand alone format This book is beautifully illustrated with colored plots charts and block diagrams on virtually every page

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