

# Schlumberger Well Log Analysis

Basic Well Log Analysis Fundamentals of Well-log Interpretation Application of Geophysical Well Log Analysis to Characterization of Aquifers in the Sinai Region, Republic of Egypt Well Logging and Formation Evaluation Well Logging and Geology Geothermal Well Log Interpretation The Geological Interpretation of Well Logs The Fundamentals of Well Log Interpretation Basic Well Log Analysis for Geologists Finding Oil and Gas from Well Logs Bibliography of Borehole Geophysics as Applied to Ground-water Hydrology Geologic Well Log Analysis Field Methods for Geologists and Hydrogeologists Geological Well Logs The Conterminous United States Mineral Appraisal Program Handbook of Well Log Analysis for Oil and Gas Formation Evaluation U.S. Geological Survey Circular Theory, Measurement, and Interpretation of Well Logs Basic Well Log Analysis for Geologists Formation Evaluation with Pre-Digital Well Logs George B. Asquith Oberto Serra F. L. Paillet Toby Darling Oberto Serra Salil Kumar Sanyal M. H. Rider Malcolm Robert Jesse Wyllie George B. Asquith L.M. Etnyre Ticie A. Taylor Sylvain Joseph Pirson Fakhry A. Assaad S. Luthi Ticie A. Taylor Sylvain J. Pirson Zaki Bassiouni Richard M. Bateman

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conceived and written by a geologist for geologists fundamentals of well log interpretation is a considerably revised and updated translation of the french edition part 1 dealt with the acquisition of logging data and when it appeared one reviewer wrote serra has written a major reference work which is unusually well organized well illustrated and information rich if volume 2 is as thorough and exacting in detail as volume 1 it will

do much toward furthering geologists knowledge of well logging aapg bulletin the fundamental objective of this second volume is to show that wireline log data constitute a remarkable source of geological information of the utmost importance for geologists but also for reservoir engineers geophysicists and petrophysicists too often by nature of their training geologists do not realize that wireline log data which are physical data hold in fact a tremendous variety of geological information covering practically all branches of geology they are reluctant to use these data because often they are not familiar with them and do not know how to interpret wireline logs other log users generally do not realize the importance of geological knowledge to better interpret logs this book aims to fill the gap by showing how wireline log data are dependent on geological parameters and how to extract the latter from the former methods of extracting the desired information from the wireline log data are explained and illustrated in summary the book explains how to make good geological studies from wireline logs it is an invaluable acquisition for geologists petrophysicists reservoir engineers and geophysicists who wish to make better use of wireline log data

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

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

several excellent books on well 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 quantitative

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 well log analysis from a cookbook standpoint

this book is designed for scientists and engineers who want practical information to plan manage write and review geologic and hydrologic projects and reports it provides step by step methods to prepare more timely readable and technically accurate reports detailed guidelines are provided to prepare the different subjects included in this book source references project proposals and checklists are included to assist authors the use of the techniques described in this book will result in less time spent in report writing editing rewriting and review which will save time and money this book is the result of nearly 50 years of experience in program and project development in the field of hydrogeology the two main authors p e lamoreaux and fakhry assaad who submitted both the idea and the major subjects of the book have been closely associated during this period with the geological survey of egypt the general desert development organization in egypt the u s geological survey usgs the geological survey of alabama the university of alabama and in a great variety of consulting projects in different states of america and over the world it is based on experience from the assignment and supervision of many professionals with a great variety of academic training and experience

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

an indispensable tool theory measurement and interpretation of well logs introduces the three primary phases of well logging technology to engineering and geosciences students this text offers an in depth study of the electric radioactive and acoustic properties of sedimentary rocks mathematical and empirical models relate a formation property of interest to the property measured with the logging tool openhole logging

techniques are covered along with concepts of traditional and modern tools additional resources you may want to consider this related spe training course well log interpretation essentials

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

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