

# Schlumberger Well Log Analysis

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**Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination** - J. Russell Boulding 2016-04-19

A synthesis of years of interdisciplinary research and practice, the second edition of this bestseller continues to serve as a primary resource for information on the assessment, remediation, and control of contamination on and below the ground surface. Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination: Assessment, Prevention, and Remediation, Second Edition includes important new developments in site characterization and soil and ground water remediation that have appeared since 1995. Presented in an easy-to-read style, this book serves as a comprehensive guide for conducting complex site investigations and identifying methods for effective soil and ground water cleanup. Remediation engineers, ground water and soil scientists, regulatory personnel, researchers, and field investigators can access the latest data and summary tables to illustrate key advantages and disadvantages of various remediation methods.

Proceedings of the Ocean Drilling Program - Ocean Drilling Program 1998

**The Geological Interpretation of Well Logs** - M. H. Rider 1996

*Log Data Acquisition and Quality Control* - Philippe P. Theys 1999

While the first well logs recorded seventy years ago had no provision for data quality control, the development of increasingly sophisticated logging techniques has led to the introduction of a large number of tests to validate acquired data. Log quality can be assured by stringent control of depth, calibrations, signal processing and operating procedures. This work gives a thorough description of these features. The meaningful interpretation of well logs depends on valid input. An understanding of log acquisition, and the performance of rigorous quality checks are the prerequisites for an accurate evaluation of a formation. These elements also enable log users to make decisions based on calculated risks. The book is primarily written for earth science specialists who use log data. It also addresses the needs of logging engineers who seek a better understanding of the log acquisition process. Exercises and their solutions are scattered in the book to complement practical chapters. Contents : I. Premises. 1. Introduction. 2. Evaluation of hydrocarbon volume. 3. Data collection and decision-making. 4. Elements of metrology I: error analysis. 5. Elements of metrology II: volume considerations. 6. Elements of metrology III: other attributes. 7. Mathematical preliminary: propagation of errors. II. Data acquisition. 8. Data acquisition. 9. Sensor and source technology. 10. Effect of measurement duration on precision. 11. Signal processing: filtering. 12. Enhancement of vertical resolution through processing. 13. Tool response. 14. Environmental corrections. 15. The real environment. 16. Density logging. 17. Calibration. 18. Monitoring of tool behavior. 19. Measurement of depth. 20. Directional surveys. III. Data quality control. 21. Data quality plan. 22. Completeness of information. 23. Data management. 24. Log quality checks. 25. Data quality evaluation. 26. Images and nuclear magnetic resonance. 27. Comparison of logged data with other information. 28. Optimum logging and uncertainty management. Bibliography. Index.

Standard Methods of Geophysical Formation Evaluation - James K. Hallenborg 2020-02-03

These three works cover the entire field of formation evaluation, from basic concepts and theories, through standard methods used by the petroleum industry, on to new and exciting applications in environmental science and engineering, hydrogeology, and other fields. Designed to be used individually or as a set, these volumes represent the first comprehensive assessment of all exploration methodologies. No other books offer the breadth of information and range of applications available in this set.

*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.

*Finding Oil and Gas from Well Logs* - L.M. Etnyre 2013-11-11

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 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.

*Basic Well Log Analysis for Geologists* - George B. Asquith 1982

Principles and Applications of Well Logging - Hongqi Liu 2017-06-15

This book primarily focuses on the principles and applications of electric logging, sonic logging, nuclear logging, production logging and NMR logging, especially LWD tools, Sondex production logging tools and other advanced image logging techniques, such as ECLIPS 5700, EXCELL 2000 etc. that have been developed and used in the last two decades. Moreover, it examines the fundamentals of rock mechanics, which contribute to applications concerning the stability of borehole sidewall, safety density window of drilling fluid, fracturing etc. As such, the book offers a valuable resource for a wide range of readers, including students majoring in petrophysics, geophysics, geology and seismology, and engineers working in well logging and exploitation.

**Geothermal Well Log Interpretation** - Salil Kumar Sanyal 1979

**Cased-Hole Log Analysis and Reservoir Performance Monitoring** - Richard M. Bateman 2014-11-22

This book addresses vital issues, such as the evaluation of shale gas reservoirs and their production. Topics include the cased-hole logging environment, reservoir fluid properties; flow regimes; temperature, noise, cement bond, and pulsed neutron logging; and casing inspection. Production logging charts and tables are included in the appendices. The work serves as a comprehensive reference for production engineers with upstream E&P companies, well logging service company employees, university students, and petroleum industry training professionals.

Encyclopedia of Solid Earth Geophysics - Harsh Gupta 2011-06-29

The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on. This development addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come. Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework, which other allied disciplines utilize for more specific investigations. The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company. More than two decades later, this new volume, edited by Prof. Harsh K. Gupta, represents a thoroughly revised and expanded reference work. It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub-disciplines such as Gravity, Geodesy, Geomagnetism, Seismology, Seismics, Deep Earth Processes, Plate Tectonics, Thermal Domains, Computational Methods, etc. in a systematic and consistent format and standard. It is an authoritative and current reference source with extraordinary width of scope. It draws its unique strength from the expert contributions of editors and authors across the globe. It is designed to serve as a valuable and cherished source of information for current and future generations of professionals.

Handbook of Borehole Acoustics and Rock Physics for Reservoir Characterization - Vimal Saxena 2018-04-28

The Handbook of Borehole Acoustics and Rock Physics for Reservoir Characterization combines in a single useful handbook the multidisciplinary domains of the petroleum industry, including the fundamental concepts of rock physics, acoustic logging, waveform processing, and geophysical application modeling through graphical examples derived from field data. It includes results from core studies, together with graphics that validate and support the modeling process, and explores all possible facets of acoustic applications in reservoir evaluation for hydrocarbon exploration, development, and drilling support. The Handbook of Borehole Acoustics and Rock Physics for Reservoir Characterization serves as a technical guide and research reference for oil and gas professionals, scientists, and students in the multidisciplinary field of reservoir characterization through the use of petrosonics. It overviews the fundamentals of borehole acoustics and rock physics, with a focus on reservoir evaluation applications, explores current advancements through updated research, and identifies areas of future growth. Presents theory, application, and limitations of borehole acoustics and rock physics through field examples and case studies Features "Petrosonic Workflows" for various acoustic applications and evaluations, which can be easily adapted for practical reservoir modeling and interpretation Covers the potential advantages of acoustic-based techniques and summarizes key results for easy geophysical application

Standard Handbook of Petroleum and Natural Gas Engineering: Volume 2 - William C. Lyons 1996-10-16

Volume 2 presents the industry standards and practices for reservoir engineering and production engineering. It also looks at all aspects of petroleum economics and shows how to estimate oil and gas reserves.

**The Log Analyst** - 1998

**Well Logging and Geology** - Oberto 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.

**Techniques of Water-resources Investigations of the United States Geological Survey: chap. D1. Collection of environmental data: Application of surface geophysics to ground-water investigations** - Geological Survey (U.S.) 1967

**Field Methods for Geologists and Hydrogeologists** - Fakhry A. Assaad 2013-03-09

From the reviews: "...is a "must" for serious field novices, and for seasoned middle-career and senior practitioners in hydrogeology, mainly those people who answer a calling to offer honest and accurate hydrogeological approximations and findings. Any engineering geologist or groundwater geologist who claims capability as a "Hydrogeologist" should own this book and submit it to highlighting and page tabbing. Of course, the same goes for those who practice in karst terranes, as author LaMoreaux is one of the pioneers in this field, worldwide..." (Allen W. Hatheway)

**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

Development Geology Reference Manual - Diana Morton-Thompson 1993

Reservoir Engineering Techniques Using Fortran - Mihir K. Sinha 2012-12-06

Practical reservoir engineering techniques have been adequately described in various publications and textbooks, and virtually all useful techniques are suit able for implementation on a digital computer. Computer programs have been written for many of these techniques, but the source programs are usually not available in published form. The purpose of this book is to provide a central source of FORTRAN-coded algorithms for a wide range of conventional reservoir engineering techniques. The book may be used as a supplementary text for courses in practical reservoir engineering. However, the book is primarily intended for practicing reservoir engineers in the hope that the collection of programs provided will greatly facilitate their work. In addition, the book should be also helpful for non-petroleum engineers who are involved in applying the results of reservoir engineering analysis. Sufficient information is provided about each of the techniques to allow the book to be used as a handy reference. ix INTRODUCTION This book provides many of the useful practical reservoir engineering (conventional) techniques used today in the form of FORTRAN codes. The primary objectives have been to provide the simplest possible method for obtaining reliable answers to practical problems. Unfortunately, these codes can usually be applied by simply following a cookbook approach. However, if at all possible, the solutions obtained should be verified and cross-checked by some other means and,

most important, should be checked for reasonability.

This Is Schlumberger - Schlumberger 2017-09-01

This book assembles the historical facts, people, and culture of Schlumberger as it recognizes the 90th anniversary of the first well log conducted in Pechelbronn, France, in 1927. It is a story that began with Conrad and Marcel Schlumberger, the sons of a successful French businessman in the textile industry. Originally, their father Paul was drawn more to the study of science and did not think the world of business would suit him. When Paul took over the family firm with great success, he did not abandon his interest in the sciences. Instead, he imparted his thirst for knowledge to his sons and provided the financial support they needed to pioneer a new field, subsurface metrology, the science of measurement. Armed with their father's support, Conrad and Marcel set out on a journey that would have a lasting effect on the oil and gas industry. Today Schlumberger is the world's leading provider of technology for reservoir characterization, drilling, production, and processing to the oil and gas industry. Working in more than 85 countries and employing approximately 100,000 people who represent over 140 nationalities, Schlumberger supplies the industry's most comprehensive range of products and services, from exploration through production, and integrated pore to pipeline solutions that optimize hydrocarbon recovery to deliver reservoir performance. Schlumberger seeks to become the best-run company in the world by leveraging its established strengths in technology, people, and size and focusing its actions in four areas—growth, returns, integrity, and engagement.

Schlumberger has weathered the vagaries of the oil and gas industry by maintaining a clearly defined identity, investing the time to understand its customers and investors, and possessing a willingness to change. The qualities that have defined the company for the last 90 years will serve it well as we look to the future in an industry that, at the time this book was published, was navigating the longest industry downturn in the past 30 years. Though the industry's cyclic nature is a familiar one, the current situation is not the result of lower demand or other external factors that characterized previous downturns. This unique downturn has caused many consequences for the oil and gas industry, and Schlumberger hopes to lead the way to the future.

Fundamentals of Formation Evaluation - Donald P. Helander 1983

This book will provide a basis for an introductory course in the formation evaluation. It is designed to be supplemented by problems to point out the important concepts.

Techniques of Water-resources Investigations of the United States Geological Survey - 1971

Introduction to Schlumberger Well Logging - Schlumberger Well Surveying Corporation 1958

**Basic Well Log Analysis** - George B. Asquith 2004

This publication is a general introduction to common openhole logging measurements, both wire line and MWD/LWD, and the interpretation of those measurements to determine the traditional analytical goals of porosity, fluid saturation, and lithology/mineralogy. It is arranged by the interpretation goals of the data, rather than by the underlying physics of the measurements. The appendix files contain digital versions of the data from the case studies, a summary guide to the measurements and their interpretation, and a simple spreadsheet containing some of the more common interpretation algorithms.

**Theory, Measurement, and Interpretation of Well Logs** - Zaki Bassiouni 1994

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

**Log Analysis Guide** - Schlumberger Well Surveying Corporation 1960\*

**Fundamentals of Production Logging** - Elsa Kapitan-White 2013-02-01

**The Acquisition of Logging Data** - 1984-03-01

The Acquisition of Logging Data

**Encyclopedia of Well Log...** - Robert Desbrandes

"The aim of this book is to provide students, trainees and engineers with a manual covering all well-logging measurements ranging from drilling to production, from oil to minerals going by way of geothermal energy. Each chapter is necessarily a summary, especially in the field of conventional measurements which are effectively described by service companies and some authors, but each topic can be followed further by means of the bibliographic lists which give the best references in each field."--Preface

Well Logging for Earth Scientists - Darwin V. Ellis 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 the measurements.

**The Log Analyst** - 1996

**Geological Well Logs** - S. Luthi 2013-03-14

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.

**Introduction to Geophysical Formation Evaluation** - James K. Hallenborg 2023-04-21

These three works cover the entire field of formation evaluation, from basic concepts and theories, through standard methods used by the petroleum industry, on to new and exciting applications in environmental science and engineering, hydrogeology, and other fields. Designed to be used individually or as a set, these volumes represent the first comprehensive assessment of all exploration methodologies. No other books offer the breadth of information and range of applications available in this set. The first volume, Introduction to Geophysical Formation Evaluation, is the perfect introductory reference for environmental professionals without previous training in the field. It explains the fundamentals of geophysical exploration and analysis, illuminates the underlying theories, and offers practical guidance on how to use the available methodologies. General information on material behavior, porosity, tortuosity, permeability, cores, resistivity, radioactivity, and more provides a solid foundation for more advanced studies. The second volume, Standard Methods of Geophysical Formation Evaluation builds on the basic precepts presented in the first work but can be used alone as a self-contained reference. It covers all the petroleum-oriented standard methods which, until recently, have comprised the majority of applications of geophysical formation evaluation. It also points out non-hydrocarbon uses of petroleum methods. This volume provides complete practical information and instructions on using the standard exploration and evaluation methods. It presents comprehensive, painstakingly detailed instructions for resistivity, radiation, and

acoustic methods. The third volume, *Non-Hydrocarbon Methods of Geophysical Formation Evaluation*, discusses uses of formation evaluation in environmental science and engineering, hydrogeology, and other fields outside the petroleum industry, and demonstrates how the standard methods can be adapted to these non-hydrocarbon purposes.

**Well Logging and Reservoir Evaluation** - Oberto Serra 2007

This third book on Well Logging, focuses on reservoir evaluation of the main goal is the determination of the hydrocarbon volume existing in the drilled well and the discovered field. This evaluation requires the determination of several factors: the reservoir volume; the reservoir tectonic and stratigraphic settings (spatial & temporal position; the presence of fractures; the reservoir mineralogical composition; the hydrocarbon volume in place and extractible, which depends on the saturation of hydrocarbon in each unit composing the reservoir, which, in turn, depends on: the total pore volume of each unit composing the reservoir, the pore size, which is a function of the texture (grain size, sorting, packing...), the diagenetic effects affecting the initial porosity ((compaction, cementation, transformation, dolomitization, dissolution...) undergone since the deposition of the sediment; the hydrocarbon type; the permeability which depends on sedimentary features, fractures, dissolution and fluid type; the production potential that is a function of the permeability and the reservoir pressure. The determination of these factors will be considerably improved using a complete logging set including images of the borehole wall and nuclear magnetic resonance data and their interpretation by a team including geologist, geophysicist, petrophysicist and reservoir engineer in order to determine the depositional environment which can be precisely determined from well logging data, possibly calibrated on core data, taking into account: the facies of each depositional unit (composition, texture, internal structure, thickness); the type of facies succession composing genetic increment and genetic sequence. This determination, completed by the detection of the faults crossed by the well, will allow a more precise interpretation of seismic data and consequently a better modeling of the reservoir for its economical evaluation and development. Contains an exhaustive index-glossary referencing to the three books.

**Fundamentals of Well-log Interpretation: The interpretation of logging data** - Oberto Serra 1984

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.

**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.

*Open-hole Log Analysis and Formation Evaluation* - Richard M. Bateman 1985

**Computer Analysis of Digital Well Logs** - James H. Scott 1984