

Schlumberger Well Log Analysis

Well Log Analysis in Unfamiliar Lithologies
Cased-Hole Log Analysis and Reservoir Performance Monitoring
Well Logging Handbook
Standard Handbook of Petroleum & Natural Gas Engineering
Basic Well Log Analysis
Introduction to Schlumberger Well Logging
The Acquisition of Logging Data
Essentials of Modern Open-hole Log Interpretation
Log Data Acquisition and Quality Control
The Art of Ancient Log Analysis
Encyclopedia of Well Log
The Log Analysis Handbook: Quantitative log analysis methods
Reservoir Engineering Techniques Using Fortran
Basic Well Log Analysis for Geologists
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Fundamentals of the Petrophysics of Oil and Gas Reservoirs
Open-hole Log Analysis and Formation Evaluation
Handbook on Well Logging
Well Logging and Geology
Review of Schlumberger Well Logging and Auxiliary Methods
Well Logging and Formation Evaluation
The Log Analyst
A Summary of Major Geophysical Logging Methods
Principles and Applications of Well Logging

Well Log Analysis in Unfamiliar Lithologies

Cased-Hole Log Analysis and Reservoir Performance Monitoring

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.

Well Logging Handbook

Standard Handbook of Petroleum & Natural Gas Engineering

Basic Well Log Analysis

Introduction to Schlumberger Well Logging

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.

The Acquisition of Logging Data

Essentials of Modern Open-hole Log Interpretation

The Acquisition of Logging Data

Log Data Acquisition and Quality Control

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 Art of Ancient Log Analysis

Encyclopedia of Well Log

This book presents modern log interpretation simply and concisely for the geologist, petrophysicist, reservoir engineer, and production engineer familiar with rock properties but inexperienced with logs. It helps you specify good logging programs with up-to-date tools and interpret zones of interest with the latest techniques. You will also become familiar with computer-processed logs generated by the service companies at the wellsite and office.

The Log Analysis Handbook: Quantitative log analysis methods

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.

Reservoir Engineering Techniques Using Fortran

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.

Basic Well Log Analysis for Geologists

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.

Uncertainty Analysis and Reservoir Modeling

The Geological Interpretation of Well Logs

Schlumberger Log Interpretation: Principles

Most of the papers were presented originally at the 'Geological Applications of Wireline Logs' conference convened by the Geological Society (London) in 1999. The objective of the conference was cross-fertilization of approaches among a range of specialists who use well logs in their work.

Well Logging for Physical Properties

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.

Fundamentals of Well-log Interpretation: The interpretation of logging data

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.

Geological Applications of Well Logs

Log Analysis by Microcomputer

Petroleum Engineering Handbook for the Practicing Engineer

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.

Schlumberger Production Log Interpretation

Written by some of the world's most renowned petroleum and environmental engineers, *Fundamentals of the Petrophysics of Oil and Gas Reservoirs* is the first book to offer the practicing engineer and engineering student these new cutting-edge techniques for prediction and forecasting in petroleum engineering and environmental management. 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. Petroleum geologists and engineers must have a working knowledge of petrophysics in order to find oil reservoirs and devise the best plan for getting it out of the ground, 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 *Fundamentals of the Petrophysics of Oil and Gas Reservoirs* is unique and has not been addressed until now in book format. Readers now have the ability to review the historic development of relationships and equations to define critical petrophysics attributes, many of which have either never been covered in the literature on petrophysics. 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. This groundbreaking new volume includes: How to achieve more efficient oil & gas production for the petroleum engineer and petroleum geologist More accurate forecasting for the environmental engineer Real-world examples for the engineering student Valuable new information not available anywhere else

Field Methods for Geologists and Hydrogeologists

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.

Finding Oil and Gas from Well Logs

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.

Log Evaluation of Shaly Sandstone Reservoirs

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

Well Logging for Earth Scientists

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 Earth Scientists

Formation Evaluation with Pre-Digital Well Logs

Geological Well Logs

Geologic Well Log Analysis

Fundamentals of the Petrophysics of Oil and Gas Reservoirs

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.

Open-hole Log Analysis and Formation Evaluation

Handbook on Well Logging

Well Logging and Geology

Review of Schlumberger Well Logging and Auxiliary Methods

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)

Well Logging and Formation Evaluation

This first of two volumes provides a comprehensive overview of petroleum engineering. Created with the purpose of answering daily questions faced by the practicing petroleum engineer, it is suitable for field and office use.

The Log Analyst

A Summary of Major Geophysical Logging Methods

Principles and Applications of Well Logging

Well Logging for Physical Properties A Handbook for Geophysicists, Geologists and Engineers Second Edition Joseph R Hearst Consultant Philip H Nelson United States Geological Survey Frederick L Paillett United States Geological Survey Standard well logging technology was developed primarily to use measurements in liquid-filled boreholes to quantify the petroleum content in liquid-saturated sedimentary formations. By taking a fundamental approach to tool physics, this book enables readers to move beyond the standard situations and assumptions to use the technology under other conditions, such as air-filled boreholes and partially-saturated formations, and for other applications, such as the estimation of lithology type, shale fraction, mineral content, coal quality, total organic carbon, bedding dip and strike, and the movement of fluids in a borehole. This new edition 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. It will enable the user to understand the technology, to ask the right questions, and then to use the answers. 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.

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