
Basic Well Log Analysis For Geologists

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Open-hole Log Analysis and Formation Evaluation
Springer

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.

The Geological Interpretation of Well Logs Butterworth-Heinemann

This book explains in detail all the physical principles on which are based the logging tools Wireline (WL) and Logging While Drilling (LWD). It describes as well the fundamental tools of the principal service companies, focusing on the factors that influence measurement and on the main applications in geology, geophysics, and petrophysics. As such it constitutes a reference document for all geologists and engineers involved in petroleum exploration and field development.

Formation Evaluation with Pre-Digital Well Logs Editions OPHRYS

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

Hydrogeologists

Environmental consultants

Fundamentals of Well-log Interpretation: The acquisition of logging data Springer

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 questions: (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.

Basic Well Log Analysis Editions Technips
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.

Encyclopedia of Well Log...
Editions TECHNIP

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.

Basic Well Log Analysis for Geologists Elsevier

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 Basic Well Log Analysis for Geologists Springer Science & Business Media

First part of textbook contains information on the potential and limitations of various open hole tools and the second part discusses well-log interpretation in easily understood language.

Geologic Log Analysis Using Computer Methods Editions Technips

The motivation 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 analyst, such as tool descriptions; basic analysis of logs; quick look techniques; computer analysis, and geologic analysis.

Well Log Formation Evaluation Elsevier Publishing Company

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.

Principles and Applications of Well Logging Elsevier

The petroleum geologist and engineer must have a working knowledge of petrophysics in order to find oil reservoirs, devise the best plan for getting it out of the ground, then start drilling. This book offers the engineer and geologist a manual to accomplish these goals, providing much-needed calculations and formulas on fluid flow, rock properties, and many other topics that are encountered every day. New updated material covers topics that have emerged in the petrochemical industry since 1997. Contains information and calculations that the engineer or geologist must use in daily activities to find oil and devise a plan to get it out of the ground Filled with

problems and solutions, perfect for use in undergraduate, graduate, or professional courses Covers real-life problems and cases for the practicing engineer

Introduction to Well Logs and Subsurface Maps Society of Petroleum Engineers

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.

Log Analysis by Microcomputer Springer

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.

Well Logging for Earth Scientists Elsevier Publishing Company

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.

Fundamentals of Well-log Interpretation: The interpretation of logging data
Springer Science & Business Media

"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
Springer Science & Business Media
Practical reservoir engineering techniques have been adequately described in various publications and textbooks, and virtually all useful techniques are suitable 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

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.

Geologic Well Log Analysis
Springer Science & Business Media

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.

Basic Well Log Interpretation
Elsevier
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
Theory, Measurement, and Interpretation of Well Logs
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.

Cased-Hole Log Analysis and Reservoir Performance Monitoring
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.