

Basic Well Log Interpretation

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Senior Editor

Well logs present a concise, detailed plot of formation parameters versus depth. From these plots, interpreters can identify lithologies, differentiate between porous and nonporous rock and quickly recognize pay zones in subsurface formations. The ability to interpret a log lies in recognizing the significance of each measurement.

Logging tools record the magnitude of a specific formation property, such as resistivity, measured as the tool traverses an interval defined by depth; a well log is a chart that shows the value of that measurement plotted versus depth. During the early days of commercial well logging, logs were primarily used qualitatively for making formation correlations; within a given field or local geological province, certain formations have distinctive characteristics that appear remarkably similar from one well to the next, providing geologists with a basis for locating the depths of various strata in the subsurface. In 1942, the relationship between resistivity, porosity and water saturation (and thus its inverse: hydrocarbon saturation) was established by G.E. Archie, paving the way for a quantitative evaluation of formation properties using well logs.

Early electric logs, or *e-logs*, plotted only formation resistivity measurements. The resistivity of a rock is a measure of the degree to which it can impede the flow of an electric current. It is measured in ohm.m/m , which is usually referred to simply as ohm.m . The reciprocal of resistivity is conductivity, which is typically expressed in terms of millimhos or mmhos . The ability to conduct electrical current is a function of the conductivity of the water contained in the pore space of the rock. Fresh water does not conduct electricity; however, the salt ions found in most formation waters do. Thus, unless that water is fresh, water-saturated rocks have high conductivity and low resistivity. Hydrocarbons, which are nonconductive, cause resistivity values to increase as the pore spaces within a rock become more saturated with oil or gas.

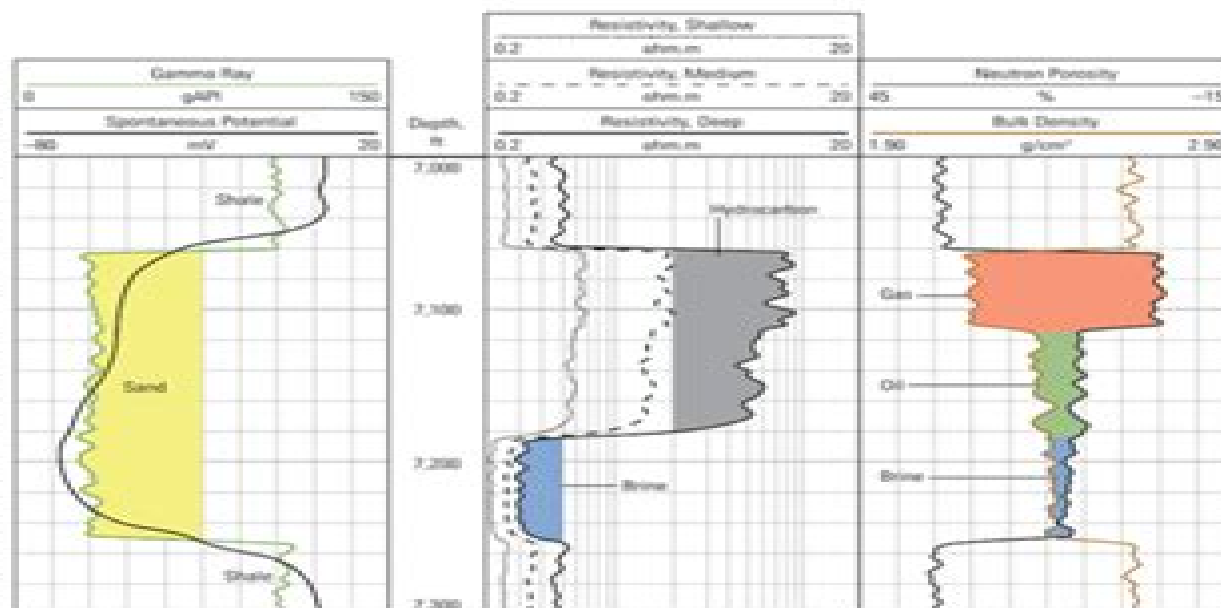


Figure 1. A basic log. A suite of logging measurements might include spontaneous potential, gamma ray, resistivity, neutron and density curves in a single presentation. The gamma ray response (Track 1) distinguishes the low gamma ray value of sand from the higher value of shale. The spontaneous potential curve generally follows a trend similar to that of the gamma ray. The next column, called the depth track, indicates the depth at which the measurement was made. Across the sandstone formation, the resistivity measurements (Track 2) are noticeably higher in the hydrocarbon zone than in the water-saturated zone in the lower part of the sand. Both neutron porosity and bulk density (Track 3) provide measures of porosity. Within the hydrocarbon-bearing zone, the separation of the curves varies depending on the type of fluid encountered.

The spontaneous potential (SP) log was developed next and was presented along with resistivity logs. It is a measurement of the voltage difference between a movable electrode in the wellbore and a fixed electrode at the surface. This electrical potential is primarily generated as a result of exchanges of fluids of different salinities—those of the mud system and those in the formation. During the course of drilling, permeable rock within the wellbore becomes invaded by drilling mud filtrate. If the filtrate is less saline than the formation fluids, negatively charged chlorine ions from the formation water cause the SP curve to deflect to the left from an arbitrary baseline established across impermeable shale formations. The magnitude of the deflection is influenced by a number of factors, including permeability, porosity, formation water salinity and mud filtrate properties. Permeable formations filled with water that is fresher than the filtrate will cause the curve to deflect to the right. So, simply by the nature of its deflections, the SP curve can indicate to a geologist which formations are permeable. A permeable formation with a high resistivity is more likely to contain hydrocarbons.

The Fundamentals Of Well Log Interpretation

Darwin V. Ellis, Julian M. Singer



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The Fundamentals of Well Log Interpretation Malcolm Robert Jesse Wyllie, 1963 **Fundamentals of Well-log Interpretation** 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 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 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 **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 *Fundamentals of Well-log Interpretation: The acquisition 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 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

Geological Well Logs S. Luthi, 2013-03-14 When I joined Schlumberger in 1982 I was surprised to find very few geologists in the company and the few there were worked more as log analysts than geologists The reason for this became soon clear to me Except for the dipmeter there was no tool and no other service that was considered geological Schlumberger geologists were supposed to work with dipmeters and if they had a taste for it the natural gamma ray spectroscopy logs It turned out that my timing was fortunate At Schlumberger's research center in Ridgefield Connecticut a prototype electrical imaging tool had been designed and after having spent three years in the Middle East I was transferred there The first field test results were just coming in and the images were startling We could see geological details that nobody had ever seen from a log cross beds unconformities pebbles fractures folds faults No cores were needed to confirm the reality of these data they were too real to be artifacts

Basic Well Log Analysis George B. Asquith, Daniel Krygowski, Steven Henderson, Neil F. Hurley, 2004

Fundamentals of Well- Log Interpretation. T. 1. the Acquisition of Logging Data. Translated from the French by Peter Westaway and Haydn Abbott, 1984

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

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 the measurements

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