

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.

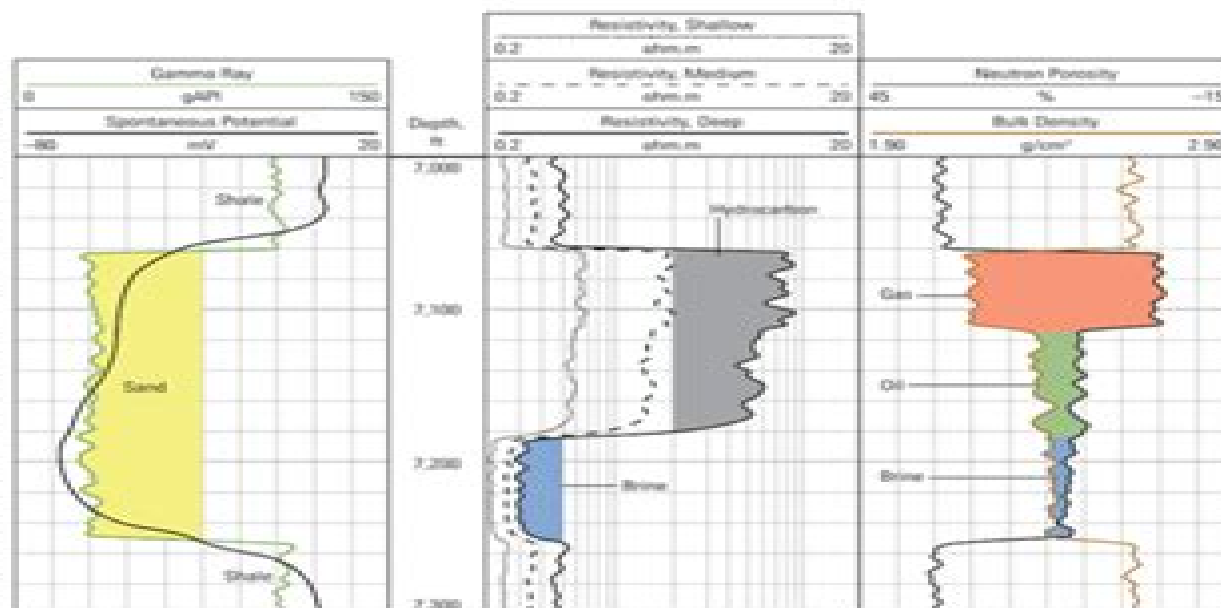


Figure 1. A basic log. A suite of logging measurements might include spontaneous potential, gamma ray, resistivity, neutron and density curves in a single presentation. The gamma ray response (Track 1) distinguishes the low gamma ray value of sand from the higher value of shale. The spontaneous potential 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

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Table of Contents The Fudamentals Of Well Log Interpretation

1. Understanding the eBook The Fudamentals Of Well Log Interpretation
 - The Rise of Digital Reading The Fudamentals Of Well Log Interpretation
 - Advantages of eBooks Over Traditional Books
2. Identifying The Fudamentals Of Well Log Interpretation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Fudamentals Of Well Log Interpretation
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Fudamentals Of Well Log Interpretation
 - Personalized Recommendations
 - The Fudamentals Of Well Log Interpretation User Reviews and Ratings
 - The Fudamentals Of Well Log Interpretation and Bestseller Lists
5. Accessing The Fudamentals Of Well Log Interpretation Free and Paid eBooks
 - The Fudamentals Of Well Log Interpretation Public Domain eBooks
 - The Fudamentals Of Well Log Interpretation eBook Subscription Services

- The Fundamentals Of Well Log Interpretation Budget-Friendly Options
- 6. Navigating The Fundamentals Of Well Log Interpretation eBook Formats
 - ePub, PDF, MOBI, and More
 - The Fundamentals Of Well Log Interpretation Compatibility with Devices
 - The Fundamentals Of Well Log Interpretation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Fundamentals Of Well Log Interpretation
 - Highlighting and Note-Taking The Fundamentals Of Well Log Interpretation
 - Interactive Elements The Fundamentals Of Well Log Interpretation
- 8. Staying Engaged with The Fundamentals Of Well Log Interpretation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Fundamentals Of Well Log Interpretation
- 9. Balancing eBooks and Physical Books The Fundamentals Of Well Log Interpretation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Fundamentals Of Well Log Interpretation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Fundamentals Of Well Log Interpretation
 - Setting Reading Goals The Fundamentals Of Well Log Interpretation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Fundamentals Of Well Log Interpretation
 - Fact-Checking eBook Content of The Fundamentals Of Well Log Interpretation
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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