

**ESSENTIALS OF  
MODERN  
OPEN-HOLE LOG  
INTERPRETATION**

**JOHN T. DEWAN**

# Essentials Of Modern Open Hole Log Interpretation

**Geoffrey C. Bowker**



## **Essentials Of Modern Open Hole Log Interpretation:**

**Essentials of Modern Open-hole Log Interpretation** John T. Dewan, 1983 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 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 **Development Geology Reference Manual** Diana Morton-Thompson, Arnold M. Woods, 1993 Proceedings of the Ocean Drilling Program Ocean Drilling Program, 1992 *Carbonate Reservoir Characterization* F. Jerry Lucia, 2012-12-06 One main target in petroleum recovery is the description of the three dimensional distribution of petrophysical properties on the interwell scale in carbonate reservoirs in order to improve performance predictions by means of fluid flow computer simulations The book focuses on the improvement of geological petrophysical and geostatistical methods describes the basic petrophysical properties important geology parameters and rock fabrics from cores and discusses their spatial distribution A closing chapter deals with reservoir models as an input into flow simulators

**Fractals in Reservoir Engineering** H. H. Hardy, Richard A. Beier, 1994 Many natural objects have been found to be fractal and fractal mathematics has been used to generate many beautiful nature scenes Fractal mathematics is used in image compression and for movies and is now becoming an engineering tool as well This book describes the application of fractal mathematics to one engineering specialty reservoir engineering This is the process of engineering the production of oil and gas The reservoir engineer's job is to design and predict production from underground oil and gas reservoirs The successful application of fractal mathematics to this engineering discipline should be of interest not only to reservoir engineers but to other engineers with their own potential applications as well Geologists will find surprisingly good numerical descriptions of subsurface rock distributions Physicists will be interested in the application of renormalization and

percolation theory described in the book Geophysicists will find the description of fluid flow scaling problems faced by the reservoir engineer similar to their problems of scaling the transport of acoustic signals **product guide SUMMER 2008** ,

*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 *Petroleum and Marine Technology Information Guide* J. Hutcheon, A. Myers, S. Oue, B. Rodden, J. Whittick, 2003-09-02 First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil gas and marine industries **Reservoir Compartmentalization** S. J. Jolley, 2010 Reservoir compartmentalization the segregation of a petroleum accumulation into a number of individual fluid pressure compartments controls the volume of moveable oil or gas that might be connected to any given well drilled in a field and consequently impacts booking of reserves and operational profitability This is a general feature of modern exploration and production portfolios and has driven major developments in geoscience engineering and related technology Given that compartmentalization is a consequence of many factors an integrated subsurface approach is required to better understand and predict compartmentalization behaviour and to minimize the risk of it occurring unexpectedly This volume reviews our current understanding and ability to model compartmentalization It highlights the necessity for effective specialist discipline integration and the value of learning from operational experience in detection and monitoring of compartmentalization stratigraphic and mixed mode

compartmentalization and fault dominated compartmentalization Page 4 of cover **Science on the Run** Geoffrey C. Bowker, 1994 In this engaging account Geoffrey Bowker reveals how Schlumberger devised a method of testing potential oil fields produced a rhetoric and secured a position that allowed it to manipulate the definition of what a technology is This is the story of how one company created and codified a new science on the run away from the confines of the laboratory By construing its service as scientific Schlumberger was able to get the edge on the competition and construct an enviable niche for itself in a fast growing industry In this engaging account Geoffrey Bowker reveals how Schlumberger devised a method of testing potential oil fields produced a rhetoric and secured a position that allowed it to manipulate the definition of what a technology is Bowker calls the heart of the story The Two Measurements That Worked and he renders it in the style of a myth In so doing he shows seamlessly how society becomes embedded even in that most basic and seemingly value independent of scientific concepts the measurement Bowker describes the origins and peregrinations of Schlumberger details the ways in

which the science developed in the field was translated into a form that could be defended in a patent court and analyzes the company's strategies within the broader context of industrial science Inside Technology series      **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 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      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      Use of Geophysical Logs to Estimate the Quality of Ground Water and the Permeability of Aquifers Jim Dee Hudson, 1996      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

*Groundwater in the Celtic Regions* N. S. Robins, B. D. R. Misstear, 2000

**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

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

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**Unconventional Shale Gas Exploration and Exploitation** Annapurna Boruah, Sumit Verma, Shib Sankar

Ganguli, 2024-01-04 From the geological mysteries of shale formations to cutting edge techniques in gas extraction this book unveils the essential knowledge to harness the potential of shale gas The book integrates various data types such as outcrop well logs core data etc for hydrofracturing from basin scale to nano pore scale The book included a wealth of information on the latest advancements industry practices environmental considerations policies and more In a world increasingly conscious of environmental concerns Cleaner Energy from the Earth offers a fresh perspective on the utilization of shale gas as a cleaner fossil fuel alternative This comprehensive book takes the reader on a captivating journey through the science technology and innovation driving shale gas exploration and exploitation towards a greener future Whether you re a seasoned industry professional a student or a curious reader this book provides a comprehensive and accessible resource for all levels of expertise

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