



FIG. 2 Example of a Gamma Log for the Hydrologic Observation Well KGS #1 Braun located near Hays, Kansas in the USA (in API units whereby SGR reflects the derived total gamma ray log (the sum of all the radiation contributions), and CGR reflects the computed gamma ray log (the sum of the potassium and thorium responses, leaving out the contribution from uranium).

### 3.2 Definitions of Terms Specific to This Standard:

3.2.1 *dead time, n*—the time after each pulse when a second pulse cannot be detected.

3.2.2 *dead time effect, n*—the inability to distinguish closely-spaced nuclear counts leads to a significant underestimation of gamma activity in high radiation environments and is known as the “dead time effect”.

3.2.3 *depth of investigation, n*—the radial distance from the measurement point to a point where the predominant measured response may be considered centered.

3.2.3.1 *Discussion*—The depth of investigation for borehole

logging is a radial distance from the borehole and is not to be confused with borehole depth or any depth measured from the surface.

3.2.4 *measurement resolution, n*—the minimum change in measured value that can be detected.

3.2.5 *vertical resolution, n*—the minimum thickness that can be separated into distinct units.

3.2.6 *volume of investigation, n*—the volume that contributes 90 % of the measured response.

3.2.6.1 *Discussion*—It is determined by a combination of theoretical and empirical modeling. The volume of investigation is non-spherical and has gradational boundaries.

## 4. Summary of Guide

4.1 This guide applies to borehole gamma logging and is to be used in conjunction with Guide D5753.

4.2 This guide briefly describes the significance and use, apparatus, calibration and standardization, procedures, and reports for conducting borehole gamma logging.

## 5. Significance and Use

5.1 An appropriately developed, documented, and executed guide is essential for the proper collection and application of gamma logs. This guide is to be used in conjunction with Guide D5753.

5.2 The benefits of its use include improving selection of gamma logging methods and equipment, gamma log quality and reliability, and usefulness of the gamma log data for subsequent display and interpretation.

5.3 This guide applies to commonly used gamma logging methods for geotechnical applications.

5.4 It is essential that personnel (see the Personnel section of Guide D5753) consult up-to-date textbooks and reports on the gamma technique, application, and interpretation methods.

## 6. Interferences

6.1 Most extraneous effects on gamma logs are caused by logging too fast, instrument problems, borehole conditions, and geologic conditions.

6.2 Logging too fast can significantly degrade the quality of gamma logs. Gamma counts originating at a given depth need to be averaged over a time interval such that the natural statistical variation in the rate of gamma photon emission is negligible (see Fig. 4).

6.3 Instrument problems include: a) electrical leakage of cable and grounding problems, b) degradation of detector efficiency attributed to loss of crystal transparency (fogging) or fractures or breaks in the crystal, and c) mechanical damage causing separation of crystal and photomultiplier tube.

6.4 Borehole conditions include: a) changes in borehole diameter (especially in the fluid-filled portion), b) casing type and number, c) radioactive elements in drilling fluid in the borehole, or in cement or slurry behind casing, d) steel casing or cement in the annulus around casing, and e) thickness of the annulus around casing.

# Guide To Borehole Image Interpretation

**Erle C. Donaldson, Djebbar Tiab**



## **Guide To Borehole Image Interpretation:**

**Borehole Imaging** Gail Williamson, M. A. Lovell, Peter K. Harvey, 1999      *Machine Learning Guide for Oil and Gas Using Python* Hoss Belyadi, Alireza Haghighat, 2021-04-09 Machine Learning Guide for Oil and Gas Using Python A Step by Step Breakdown with Data Algorithms Codes and Applications delivers a critical training and resource tool to help engineers understand machine learning theory and practice specifically referencing use cases in oil and gas The reference moves from explaining how Python works to step by step examples of utilization in various oil and gas scenarios such as well testing shale reservoirs and production optimization Petroleum engineers are quickly applying machine learning techniques to their data challenges but there is a lack of references beyond the math or heavy theory of machine learning Machine Learning Guide for Oil and Gas Using Python details the open source tool Python by explaining how it works at an introductory level then bridging into how to apply the algorithms into different oil and gas scenarios While similar resources are often too mathematical this book balances theory with applications including use cases that help solve different oil and gas data challenges Helps readers understand how open source Python can be utilized in practical oil and gas challenges Covers the most commonly used algorithms for both supervised and unsupervised learning Presents a balanced approach of both theory and practicality while progressing from introductory to advanced analytical techniques      **Dipmeter and Borehole Image Log Technology** Michael Poppelreiter, Carmen Garcia-Carballido, Martin Kraaijveld, 2010-08-25 Borehole imaging is among the fastest and most accurate methods for collecting high resolution subsurface data Recent breakthroughs in acquisition tool design and modeling software provide real time subsurface images of incredible detail from the drill bit straight to a workstation This text portrays key applications of dipmeter and image log data across the exploration and production life cycle      **Aquifer Characterization Techniques** Robert G. Maliva, 2016-05-26 This book presents an overview of techniques that are available to characterize sedimentary aquifers Groundwater flow and solute transport are strongly affected by aquifer heterogeneity Improved aquifer characterization can allow for a better conceptual understanding of aquifer systems which can lead to more accurate groundwater models and successful water management solutions such as contaminant remediation and managed aquifer recharge systems This book has an applied perspective in that it considers the practicality of techniques for actual groundwater management and development projects in terms of costs technical resources and expertise required and investigation time A discussion of the geological causes types and scales of aquifer heterogeneity is first provided Aquifer characterization methods are then discussed followed by chapters on data upscaling groundwater modelling and geostatistics This book is a must for every practitioner graduate student or researcher dealing with aquifer characterization      *A Practical Guide to Borehole Geophysics in Environmental Investigations* W. Scott Keys, 2017-12-06 Borehole geophysics is frequently applied in hydrogeological environmental investigations where for example sites must be evaluated to determine the distribution of contaminants It is a cost effective method for obtaining

information during several phases of such investigations Written by one of world s leading experts in the field A Practical Guide to Borehole Geophysics in Environmental Investigations explains the basic principles of the many tools and techniques used in borehole logging projects Applications are presented in terms of broad project objectives providing a hands on guide to geophysical logging programs including specific examples of how to obtain and interpret data that meet particular hydrogeologic objectives

*Multifrequency Electromagnetic Data Interpretation for Subsurface Characterization* Siddharth Misra,Yifu Han,Yuteng Jin,Pratiksha Tathed,2021-07-13 Multifrequency Electromagnetic Data Interpretation for Subsurface Characterization focuses on the development and application of electromagnetic measurement methodologies and their interpretation techniques for subsurface characterization The book guides readers on how to characterize and understand materials using electromagnetic measurements including dielectric permittivity resistivity and conductivity measurements This reference will be useful for subsurface engineers petrophysicists subsurface data analysts geophysicists hydrogeologists and geoscientists who want to know how to develop tools and techniques of electromagnetic measurements and interpretation for subsurface characterization Includes case studies to add additional color to the presented content Provides codes for the mechanistic modeling of multi frequency conductivity and relative permittivity of porous geomaterials Presents detailed descriptions of multifrequency electromagnetic data interpretation models and inversion algorithm

*The Log Analyst* ,1999

**Implementation and Interpretation of Machine and Deep Learning to Applied Subsurface Geological Problems** David A. Wood,2025-02-18 Implementation and Interpretation of Machine and Deep Learning to Applied Subsurface Geological Problems Prediction Models Exploiting Well Log Information explores machine and deep learning models for subsurface geological prediction problems commonly encountered in applied resource evaluation and reservoir characterization tasks The book provides insights into how the performance of ML DL models can be optimized and sparse datasets of input variables enhanced and or rescaled to improve prediction performances A variety of topics are covered including regression models to estimate total organic carbon from well log data predicting brittleness indexes in tight formation sequences trapping mechanisms in potential sub surface carbon storage reservoirs and more Each chapter includes its own introduction summary and nomenclature sections along with one or more case studies focused on prediction model implementation related to its topic Addresses common applied geological problems focused on machine and deep learning implementation with case studies Considers regression classification and clustering machine learning methods and how to optimize and assess their performance considering suitable error and accuracy metric Contrasts the pros and cons of multiple machine and deep learning methods Includes techniques to improve the identification of geological carbon capture and storage reservoirs a key part of many energy transition strategies

*Guide for a Field Conference on the Tertiary and Pleistocene of Nebraska* Charles Bertrand Schultz,T. M. Stout,Society of Vertebrate Paleontology,1941

*Uncertainty Analysis and Reservoir Modeling* Y. Zee Ma,Paul R. La Pointe,2011-12-20

*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 *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

**Sequence Stratigraphy and Characterization of Carbonate Reservoirs** Charles Kerans,Scott Wheeler Tinker,1997 Reservoir management is an important topic in the oil industry today Conferences forums short courses and technical papers written and attended by engineers geologists geophysicists petrophysicists and managers discuss various aspects of reservoir management A critical component of reservoir management is the accurate characterization of the hydrocarbon asset called reservoir characterization The topic of this course is the process of sequence stratigraphic interpretation and characterization of carbonate reservoirs Because of the overwhelming mass of information most reservoir geoscientists keep up with either some aspects of sequence stratigraphy or some aspects of reservoir characterization but typically not both The authors believe that the two disciplines are so intimately related that the sequence framework should be considered a critical piece of the integrated puzzle *Aerospatial Remote Sensing in Geology* Jean-Yves Scanvic,1997-01-01 Using numerous operational and research oriented examples this text seeks to explain how the human eye and brain can extract and use remotely sensed data in the fields of applied geology and mineral exploration *Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination* J. Russell Boulding,Jon S. Ginn,2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface *Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment* Prev **Seismic Imaging of Carbonate Reservoirs and Systems** Gregor Paul Eberli,Jose Luis Masafferro,J. Frederick Sarg,2004 *Atlas of Deep-Water Outcrops* Tor H. Nilsen,Roger D. Shew,Gary Scott Steffens,Joe Studlick,2008-02-20 Hardcover plus CD *Reservoir Modelling* Steve Cannon,2024-06-17 The essential resource to an integrated approach to reservoir modelling by highlighting both the input of data and the modelling

results Reservoir Modelling offers a comprehensive guide to the procedures and workflow for building a 3 D model Designed to be practical the principles outlined can be applied to any modelling project regardless of the software used The author a noted practitioner in the field captures the heterogeneity due to structure stratigraphy and sedimentology that has an impact on flow in the reservoir This essential guide follows a general workflow from data QC and project management structural modelling facies and property modelling to upscaling and the requirements for dynamic modelling The author discusses structural elements of a model and reviews both seismic interpretation and depth conversion which are known to contribute most to volumetric uncertainty and shows how large scale stratigraphic relationships are integrated into the reservoir framework The text puts the focus on geostatistical modelling of facies and heterogeneities that constrain the distribution of reservoir properties including porosity permeability and water saturation In addition the author discusses the role of uncertainty analysis in the static model and its impact on volumetric estimation The text also addresses some typical approaches to modelling specific reservoirs through a mix of case studies and illustrative examples and Offers a practical guide to the use of data to build a successful reservoir model Draws on the latest advances in 3 D modelling software Reviews facies modelling the different methods and the need for understanding the geological interpretation of cores and logs Presents information on upscaling both the structure and the properties of a fine scale geological model for dynamic simulation Stresses the importance of an interdisciplinary team based approach Written for geophysicists reservoir geologists and petroleum engineers Reservoir Modelling offers the essential information needed to understand a reservoir for modelling and contains the multidisciplinary nature of a reservoir modelling project      **Petrophysics** Erle C.

Donaldson,Djebbar Tiab,2004-01-24 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

*Petrophysics* Djebbar Tiab,Erle C. Donaldson,2015-09-23 Petrophysics Theory and Practice of Measuring Reservoir Rock and Fluid Transport Properties Fourth Edition provides users with tactics that will help them understand rock fluid interaction a fundamental step that is necessary for all reservoir engineers to grasp in order to achieve the highest reservoir performance The book brings the most comprehensive coverage on the subject matter and is the only training tool for all reservoir and production engineers entering the oil and gas industry This latest edition is enhanced with new real world case studies the latest advances in reservoir characterization and a new chapter covering unconventional oil and gas reservoirs

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