

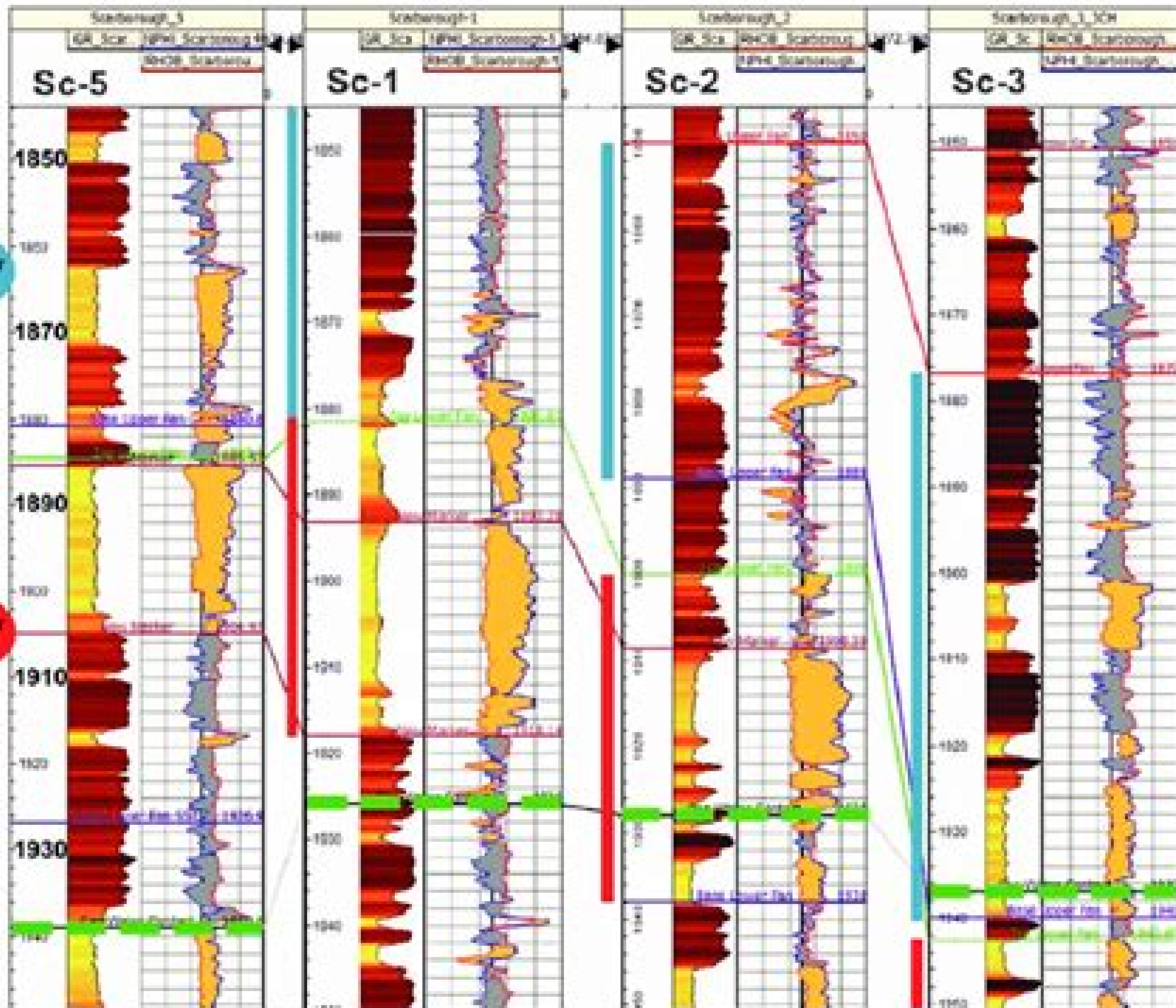
Predominantly claystone with  
variable channelised sands

Thick homogeneous  
sand units

GWC

Upper Fan

Lower Fan



# Geologic Well Log Analysis

**Clemens Wendtner**



## **Geologic Well Log Analysis:**

*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.

**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.

**Basic Well Log Analysis for Geologists** George B. Asquith, Charles R. Gibson, 1982. *Basic Well Log Analysis* George B. Asquith, Daniel Krygowski, Steven Henderson, Neil F. Hurley, 2004. **The Geological Interpretation of Well Logs** M. H. Rider, 1996. **Geologic Well Log Analysis** Sylvain Joseph Pirson, 1983. **Geologic Log Interpretation** John H. Doveton, 1994. **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 *Field Methods for Geologists and Hydrogeologists* Fakhry A. Assaad, James W. LaMoreaux, Travis Hughes, 2013-03-09 This book is designed for scientists and engineers who want practical information to plan manage write and review geologic and hydrologic projects and reports It provides step by step methods to prepare more timely readable and technically accurate reports Detailed guidelines are provided to prepare the different subjects included in this book Source references project proposals and checklists are included to assist authors The use of the techniques described in this book will result in less time spent in report writing editing rewriting and review which will save time and money This book is the result of nearly 50 years of experience in program and project development in the field of hydrogeology The two main authors P E LaMoreaux and Fakhry Assaad who submitted both the idea and the major subjects of the book have been closely associated during this period with the Geological Survey of Egypt the General Desert Development Organization in Egypt the U S Geological Survey USGS the Geological Survey of Alabama the University of Alabama and in a great variety of consulting projects in different States of America and over the world It is based on experience from the assignment and supervision of many professionals with a great variety of academic training and experience *Carbonate Reservoir Characterization* F. Jerry Lucia, 1999 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 Geological Survey Bulletin , 1980 *Carbonate Reservoir Characterization: A Geologic-Engineering Analysis, Part II* S.J. Mazzullo, H.H. Rieke, G.V. Chilingarian, 1996-11-22 This second volume on carbonate reservoirs completes the two volume treatise on this important topic for petroleum engineers and geologists Together the volumes form a complete modern reference to the properties and production behaviour of carbonate petroleum reservoirs The book contains valuable glossaries to geologic and petroleum engineering terms providing exact definitions for writers and speakers Lecturers will find a useful appendix devoted to questions and problems that can be used for teaching assignments as well as a guide for lecture development In addition there is a chapter devoted to core analysis of carbonate rocks which is ideal for laboratory instruction Managers and production engineers will find a review of the latest laboratory technology for carbonate formation evaluation in the chapter on core analysis The modern classification of carbonate rocks is presented with petroleum production performance and overall characterization using seismic and well test analyses Separate chapters are devoted to the important naturally fractured and chalk reservoirs Throughout the book the emphasis is on formation evaluation and performance This two volume work brings together the wide variety of approaches to the study of

carbonate reservoirs and will therefore be of value to managers engineers geologists and lecturers

**New Publications of the Geological Survey** Geological Survey (U.S.),1991      **Preliminary Report on Geophysical Well-logging Activity on the Salton Sea Scientific Drilling Project, Imperial Valley, California** F. L. Paillet,1987      *U.S. Geological Survey Circular* ,1984      **An Introduction to Geophysical Exploration** Philip Kearey,Michael Brooks,Ian Hill,2013-04-16 This new edition of the well established Kearey and Brooks text is fully updated to reflect the important developments in geophysical methods since the production of the previous edition The broad scope of previous editions is maintained with even greater clarity of explanations from the revised text and extensively revised figures Each of the major geophysical methods is treated systematically developing the theory behind the method and detailing the instrumentation field data acquisition techniques data processing and interpretation methods The practical application of each method to such diverse exploration applications as petroleum groundwater engineering environmental and forensic is shown by case histories The mathematics required in order to understand the text is purposely kept to a minimum so the book is suitable for courses taken in geophysics by all undergraduate students It will also be of use to postgraduate students who might wish to include geophysics in their studies and to all professional geologists who wish to discover the breadth of the subject in connection with their own work      *Main Types of Geological Maps* Chambre syndicale de la recherche et de la production du pétrole et du gaz naturel. Comité des techniciens,1997      **The Conterminous United States Mineral Appraisal Program** Ticie A. Taylor,William Wallace Patton,Elizabeth Jean Moll,Joyce A. Dey,Harley D. King,1984      **Clastic Hydrocarbon Reservoir Sedimentology** Xinghe Yu,Shengli Li,Shunli Li,2018-04-03 This book presents a comprehensive assessment of clastic sedimentology and its application to reservoir geology It covers the theoretical foundations of the topic and its use for scientists as well as professionals in the field Further it addresses all aspects of reservoir sedimentology clastic sequence stratigraphy sedimentation reservoir diagenesis and heterogeneity as well as depositional systems alluvial fluvial lacustrine delta sandy coast neritic deep water in detail The research team responsible for this book has been investigating clastic sedimentology for more than three decades and consists of highly published and cited authors The Chinese edition of this book has been a great success and is popular among sedimentologists and petroleum geologists alike      **Bibliography of Borehole Geophysics as Applied to Ground-water Hydrology** Ticie A. Taylor,Joyce A. Dey,1985

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## **Table of Contents Geologic Well Log Analysis**

1. Understanding the eBook Geologic Well Log Analysis
  - The Rise of Digital Reading Geologic Well Log Analysis
  - Advantages of eBooks Over Traditional Books
2. Identifying Geologic Well Log Analysis
  - 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 Geologic Well Log Analysis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geologic Well Log Analysis
  - Personalized Recommendations
  - Geologic Well Log Analysis User Reviews and Ratings
  - Geologic Well Log Analysis and Bestseller Lists
5. Accessing Geologic Well Log Analysis Free and Paid eBooks
  - Geologic Well Log Analysis Public Domain eBooks
  - Geologic Well Log Analysis eBook Subscription Services
  - Geologic Well Log Analysis Budget-Friendly Options

6. Navigating Geologic Well Log Analysis eBook Formats
  - ePub, PDF, MOBI, and More
  - Geologic Well Log Analysis Compatibility with Devices
  - Geologic Well Log Analysis Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geologic Well Log Analysis
  - Highlighting and Note-Taking Geologic Well Log Analysis
  - Interactive Elements Geologic Well Log Analysis
8. Staying Engaged with Geologic Well Log Analysis
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Geologic Well Log Analysis
9. Balancing eBooks and Physical Books Geologic Well Log Analysis
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Geologic Well Log Analysis
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Geologic Well Log Analysis
  - Setting Reading Goals Geologic Well Log Analysis
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geologic Well Log Analysis
  - Fact-Checking eBook Content of Geologic Well Log Analysis
  - 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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