



Thermal Properties and Temperature-Related Behavior of Rock/Fluid Systems

W. H. Somerton

Thermal Properties And Temperature Related Behavior Of Rockfluid Systems

George V. Chilingar



Thermal Properties And Temperature Related Behavior Of Rockfluid Systems:

Thermal Properties and Temperature-Related Behavior of Rock/Fluid Systems W.H. Somerton,1992-03-02 This book brings together for the first time the results of research on the thermal properties and temperature related behavior of rocks with their contained fluids under subsurface environmental conditions These data are of increasing importance with increased application of underground processes involving high temperature and in some cases low temperature environments Some of the important processes are described in which thermal data are needed Chapters deal with thermal properties of rocks including heat capacities thermal conductivities and thermal diffusivities under conditions simulating subsurface environments Discussion about the difficulty in measuring thermal properties of rock fluid systems is included along with newly developed models for predicting thermal properties from more easily measured properties The effects of thermal reactions in rocks differential thermal expansion and thermal alterations are discussed in separate chapters The effects of temperature on rock properties as distinct from the irreversible effects of heating are reviewed Lastly the book deals with wellbore applications of thermal and high temperature behavior of rocks and methods of deducing thermal properties from geophysical logs run in boreholes Appendices include thermal units conversion factors and thermal properties of some typical reservoir rocks and fluids *European Association of Exploration Geophysicists* European Association of Exploration Geophysicists. Meeting,1992 *Journal of Petroleum Technology* ,2007-07 *Geothermal Energy Update* ,1979 *Proceedings ... SPE Annual Technical Conference and Exhibition* Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1997 **Petroleum Abstracts** ,1992 **Crustal Deformation of the Yellowstone Volcanic Field from Precise Measurements of Temporal Gravity Changes and Supplementary Leveling and GPS Data** Felix Arnet,1996 *Computer Simulation of Geological Processes* Alex Erendi,2000 *Modern Geophysics in Engineering Geology* D. M. McCann,1997 *Origin and Prediction of Abnormal Formation Pressures* George V. Chilingar,2002 Knowledge of the presence of abnormally high pressure zones AHFP prior to drilling into them can prevent considerable economic losses and possibly save human lives The various origins undercompaction tectonics etc of AHFPs are discussed followed by the description of predictive techniques in clastic carbonate and salt bearing formations In addition to the well logging predictive techniques the authors discuss smectite illite transformation and the chemistry of interstitial solutions Other topics covered include a abnormally low formation pressures and subsidence and b mathematical modelling Loss of potential production may result if AHFPs are not properly identified and evaluated Many hydrocarbon bearing formations with AHFPs are erroneously condemned This book is of interest to engineers and geologists involved in the a evaluation b drilling in c completing and d producing from hydrocarbon reservoirs with AHFPs *Izvestiya, Russian Academy of Sciences* ,1999 *Petroleum Geoscience* ,1998 *Directory of Geoscience Departments, North America* ,1992 Recent Trends in Hydrogeology Thiruppudaimarudhur N. Narasimhan,1982-01-01 **Thermal Modeling of**

Petroleum Generation Colin Barker, 1996 Petroleum exploration has always been limited by the lack of adequate subsurface control. Exploration problems are usually problems of extrapolation i.e. to greater depth to laterally equivalent rocks or back through time. Models are widely used as a way of describing complex geological systems so that they can be treated quantitatively and used as the basis for extrapolations and predictions. Models consider typically a simplified geological system that can be described mathematically. It is very important to know what simplifying assumptions have been made when these assumptions are valid and under what conditions their use may not be appropriate. This requires an understanding of the concepts involved in building the model and how the model operates. Models are best used as a tool for probing the system and evaluating the sensitivity of the conclusions to possible uncertainties in the values of the input parameters. In a sense models permit experimental petroleum geochemistry and allow the user to answer the 'What if' questions e.g. 'What if the geothermal gradient had been higher in the past?' 'What if the organic matter type had been different?' This book provides students, exploration geologists and others who would like to use the available models with a general idea of how the models work, what they can do and what their limitations are. It also provides the information necessary to obtain the input data required by the commercial models.

Directory of Geoscience Departments, 1992

Energy Research Abstracts, 1983

Proceedings - Production Operations Symposium, 1993

First Break, 1992 News magazine of the European Association of Geoscientists Engineers (EAGE) formerly European Association of Exploration Geophysicists. Covers applied geophysics, petroleum geology and reservoir engineering.

Diagenesis: A Quantitative Perspective Melvyn R. Giles, 1997-10-31. Dr D. M. D. James, former head of Geological Research at Koninklijke Shell Exploration and Production, Rijswijk, The Netherlands, describes this volume as follows: 'This advanced text treats the transformation of sediment into rock, a fundamental process which directly determines the storage and transmissibility properties of reservoirs and seals in hydrocarbon and groundwater systems and in strata-bound mineralization. Attention is paid to diagenetic data from classical petrography and geochemistry and the statistical techniques required to establish its significance and assist in its interpretation. Historically under-used methodologies such as mass balance calculations and the study of modern aquifer systems for understanding rock properties below ancient unconformities are also emphasised. New ground is broken by discussing physico-chemical processes and controls against a background of geological and hydrological evolution of sedimentary basins. Throughout the emphasis is on the quantitative description and evaluation of the time-variant parameters controlling heat, fluid and mass transport in porous rock and upon their integration using mathematics. A full mathematical background is provided and all the basic equations are rigorously derived. This book will prove essential for postgraduate academics and industrial professionals whose work involves predicting rock properties for basin evaluation and is expected to stimulate new diagenetic research.'

Reviewing **Thermal Properties And Temperature Related Behavior Of Rockfluid Systems**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Thermal Properties And Temperature Related Behavior Of Rockfluid Systems**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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