U. S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY

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by

Stephen E. Prensky¹

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature

¹U.S. Geological Survey, Box 25046, MS 971, Denver, CO, 80225

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Introduction

The purpose of this bibliography is to emphasize the *application* and various uses of well-log data. The topical organization is loosely based on research interests within the U.S. Geological Survey (USGS). The following general criteria are applied to papers to determine whether they will be included: 1) the paper must be written in English, 2) it must be obtainable by a research library, and 3) most of the paper should discuss a particular application of well-log data or have immediate impact on the use of such data. For lack of space, abstracts are excluded (except for extended abstracts) and cross-indexing has been kept to a minimum. This update has over 950 new and updated references.

Readers who have followed the development of this bibliography will note that it has expanded and evolved with time. Subject headings have been split and additional headings have been added as warranted. In addition, I have tended towards a broader viewpoint than when I first began this project 10 years ago. Many papers, while not strictly log-applications papers, have been added to provide additional background or supporting information for a fuller understanding and improved interpretation of the logging data. One result of this evolution is that papers on a number of subjects that I believe would be helpful and would include today, I did not include in the earlier versions. Perhaps someday, in my "spare" time, I will compile a definitive bibliography of technical well-logging papers, back to the beginnings of well logging in the 1920s. At the same time, to make the cumulative version of this bibliography more useful and manageable, it's necessary to trim back to only the most critical papers for each topic.

As always, I wish to acknowledge the assistance of the reference staff at the Denver branch of the USGS library, especially that of Ms. Susann Powers. Their diligence in tracking down and obtaining the papers listed herein has made this bibliography possible.

PART A: BASIC WELL LOGGING

1. FUNDAMENTALS OF WELL LOGGING AND WELL-LOG INTERPRETATION

I. Books and General Review Papers

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VIII. Nuclear Logging; Geochemical Logging (Elemental Analysis) (See also VII. Cased hole logging; 18. Mineral evaluation)

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XIII. Temperature Logging, Determination of Static BHT; Applications of BHT Data; Heat-flow and Geothermics

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(See also 19. Ground water; 20. Igneous rocks; 21. Geothermal logging)

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(See also 15. Fracture detection; 20. Igneous rocks)

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