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Bibliography of Well-Log Applications
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by

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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 contains 900 new and updated citations.

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-application 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 that I would include today, were not included in the earlier versions.

This report is available in digital form (for DOS and Macintosh platforms) via the Internet and can be downloaded via "anonymous ftp" from a USGS system named greenwood.cr.usgs.gov (136.177.48.5). The file is located in a directory named [pub/open-file-reports/ofr-95-817](ftp://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-95-817). The file manager is Ray Obuch, (303) 236-5729 [phone], obuch@bpgsvr.cr.usgs.gov [email], U.S. Geological Survey, Box 25046, MS 971, Denver, CO 80225.

NOTICE TO READERS: This may be the last update to this bibliography. A change in jobs has reduced my access to a research library making the task much more difficult. I would appreciate feedback from readers who consider this bibliography important. A decision to continue this project will depend on the strength of user response.

PART A: BASIC WELL LOGGING

1. FUNDAMENTALS OF WELL LOGGING AND WELL-LOG INTERPRETATION

I. Books and General Review Papers

- Butler, R.M., 1994, Horizontal wells for the recovery of oil, gas, and bitumen: Petroleum Society of CIM [Canadian Institute of Mining and Metallurgy], Calgary Section, 227 p.
- Hallenburg, J.K., 1994, Formation evaluation--v. 1, Introduction to formation evaluation: James K. Hallenbourg, Tulsa, Oklahoma, 165 p.
- Hallenburg, J.K., 1994, Formation evaluation--v. 2, Standard logging methods (resistivity and porosity): James K. Hallenbourg, Tulsa, Oklahoma, 424 p.
- Kelley, W.E., and Mares, S., eds., 1993, Applied geophysics in hydrogeological and engineering practice: Elsevier, Amsterdam, 288 p.
- Mari, J.-L., Coppens, F., Gavin, P., and Wicquart, E., 1995, Full waveform acoustic data processing: Editions Technip, 136 p.
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II. General Log Interpretation, Reservoir Characterization, and Wireline Testing

(See also III. General Petrophysics, IV. Electromagnetic Logging, IX. Shaly Sand, 18. Mineral Evaluation)

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VI. Cased Hole and Production Logging; Determination of ROS

(See also VIII. Nuclear Logging)

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VII. Acoustic Logging
(Including P and S, Full Waveform, Borehole Seismic, and VSP)
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VIII. Nuclear Logging, Geochemical Logging (Elemental Analysis)

(See also VII. Cased-Hole Logging, 18. Mineral Evaluation)

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PART B: APPLICATIONS

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21. GEOTHERMAL WELL-LOG EVALUATION

(See also XIII. Temperature Logging, 15. Fracture Detection,
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