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Geological Applications of Well Logs

A Selected Bibliography of Well Logging Literature

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by

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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.

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This report is a revised and greatly expanded version of U.S. Geological Survey Open-File Report 86-170 and includes approximately 1,350 individual citations as well as a first-author index. For the convenience of users, the entry for articles which appeared in several sources have been consolidated into a single citation, using the earliest publication date, and reference made to the additional sources. The author welcomes suggestions from readers regarding changes, improvements, and additions (new or older papers which may have been overlooked) for possible inclusion in future revisions.

The purpose of this bibliography is twofold, 1) to provide a basic, first-stop resource on well logging which the non-specialist, i.e., geoscientist, can consult and, 2) to provide a reference on geologic applications for the non-geoscientist, i.e., log analyst or petroleum engineer, as well as for the geoscientist. To achieve these goals this reference has been kept relatively simple by, a) including only papers written in English, b) excluding papers that are primarily mathematical, theoretical, experimental or instrumentation orientated, c) excluding abstracts (except extended abstracts), masters, and doctoral theses and, d) limiting the size of this bibliography by placing emphasis on work published since 1975. It is hoped that significant contributions published prior to 1975 can be accessed through the texts and review papers which are listed. Of course the reader is invited to consult the references contained in these citations to obtain a more advanced or in-depth discussion on any subject. There has been some rudimentary cross-referencing of citations; however, time did not permit a more extensive effort.

Bibliographies of this type are, of necessity, subjective works due, in part, to the compiler's own knowledge and professional orientation or bias and to the difficulty in locating and reviewing all published work. There is no single reference which contains a complete listing of publications on well-logging and applications. Petroleum Abstracts (Tulsa database) is the single best source for keeping up with new publications in the field, however, they are not a definitive source. Many important papers, particularly older ones, have not been picked up by their abstracting service and many citations listed in this bibliography never appeared in Petroleum Abstracts. The Bibliography and Index of Geology (Georef database) is the best source for abstracts and papers published in non-English language journals, especially those in Russsian. The primary sources of well-logging literature are publications by

1. The Society of Professional Well Log Analysts (SPLWA)
    a) The Log Analyst
    b) annual symposium transactions
    c) transactions of the European chapters' (Aberdeen, London, and Paris) symposiums
    d) reprint volumes
    e) chapter publications
2. Canadian Well Logging Society (CWLS)
    a) annual Journal
    b) biannual symposium transactions
3. Society of Petroleum Engineers (SPE)
    a) Journal of Petroleum Technology

b) Formation Evaluation journal
c) preprints from national meetings
d) proceedings from regional meetings and specialized symposia
e) monographs
f) reprint volumes

4. Society of Exploration Geophysicists (SEG)
   a) Geophysics
   b) technical papers and extended abstracts for annual meetings
5. Schlumberger
   a) The Technical Review - quarterly publication
   b) texts and documents on tool operation, chart books, and log interpretation.
   c) international Well Evaluation Conference documents
6. Well-logging service companies - publications on tool operation, chart books, and log interpretation
   a) Dresser Atlas
   b) Gearhart-Owens
   c) Welex.

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1. FUNDAMENTALS OF WELL LOGGING AND WELL LOG INTERPRETATION

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15. FRACTURE DETECTION AND EVALUATION
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